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Anglo-Chinese School (Junior)/ Anglo-Chinese School (Primary)



COMBINED PRELIMINARY EXAMINATION (2019) PRIMARY 6

MATHEMATICS

PAPER 1 Booklet A

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.

2. Follow all instructions carefully.

3. Answer all questions.

4. Shade your answers in the Optical Answer Sheet (OAS) provided.

5. The use of calculators is NOT allowed.

Name:

()

Class: 6 ()

This question paper consists of 10 printed pages. (Inclusive of cover page)

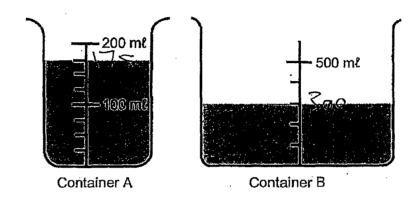
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Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet (OAS). (20 marks)

- 1. Express 3080 cm in m.
 - 1) 3.08 m
 - 2) 3.80 m
 - 3) 30.08 m
 - 4) 30.80 m
- 2. Round 123.456 to the nearest hundredth.
 - 1) 120.00
 - 2) 123.50
 - 3) 123.45
 - 4) 123.46

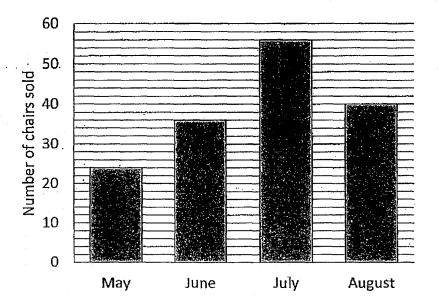
3. Two containers with some water are shown below.

How much more water is there in Container B than in Container A?



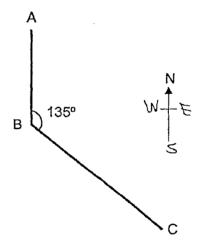
- 1) 125 ml
- 2) 175 ml
- 3) 300 ml
- 4) 475 m²
- 4. Which of the following is the same as 7040 cm³?
 - 1) 7ℓ 4 mℓ
 - 2) 7l 40 ml
 - 3) 70l 4 ml
 - 4) 70l 40 ml

5. The graph shows the number of chairs sold by a shop from May to August. In which two months were a total of 76 chairs sold?



- 1) May and June
- 2) May and July
- 3) June and August
- 4) July and August
- 6. Which of the following fractions is closest to 4?
 - 1) $3\frac{1}{2}$
 - 2) $3\frac{1}{6}$
 - 3) $4\frac{1}{4}$
 - 4) $4\frac{1}{5}$

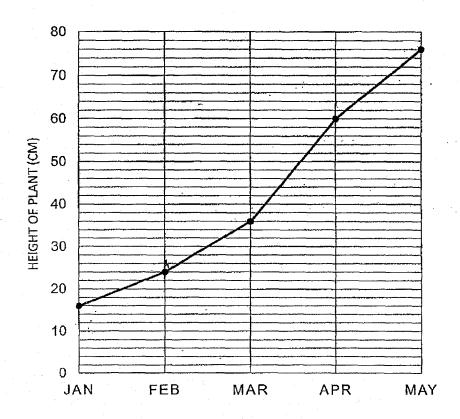
- 7. How many whole numbers from 29 to 62 are divisible by 5?
 - 1) 6
 - 2) 7
 - 3) 12
 - 4) 18
- 8. In the diagram, A, B, and C are three points on the ground. Point A is north of Point B and ∠ABC is 135°. In what direction is Point C from Point B?
 - 1) North-East
 - 2) North-West
 - 3) South-East
 - 4) South-West



9. Which of the letters below has parallel lines and no perpendicular lines?



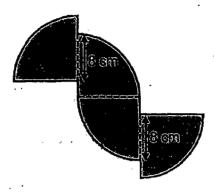
10. The graph shows the height of a plant from Jan to May. In which of the following periods did the plant grow by 24 cm?



- 1) Jan to Feb
- 2) Feb to Mar
- 3) Mar to Apr
- 4) Apr to May

A6

11. The figure is made up of four quarter circles of radius 10 cm. Find the perimeter of the figure. (Take $\pi = 3.14$)

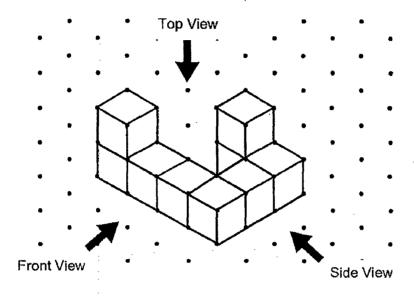


- 1) 90.8 cm
- 2) 82.8 cm
- 3) 71.4 cm
- 4) 59.4 cm
- 12. Ben, Charlotte and Danny have some marbles. The ratio of the number of marbles Ben has to the number of marbles Charlotte has is 2:7. The total number of marbles Ben and Charlotte have is three times as many as the number of marbles Danny has. Ben and Danny have 300 marbles. How many marbles does Charlotte have?
 - 1) 120
 - 2) 180
 - 3) 420
 - 4) 720

A7

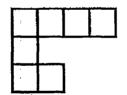
- 13. Mrs Tan had 9 kg of flour. She used $\frac{1}{3}$ of it to bake a cake. After that, she used $\frac{1}{2}$ kg of the flour to bake some cookies. How much flour had she left?
 - 1) $1\frac{1}{2}$ kg
 - 2) $4\frac{1}{6}$ kg
 - 3) $5\frac{1}{2}$ kg
 - 4) $8\frac{1}{6}$ kg

14. 9 cubes are stacked to form the solid below.

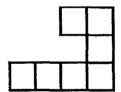


Which of the following is the top view of the solid?

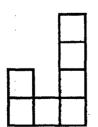
1)



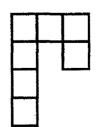
2)



3)



4)



15.

PARKING FEES	
For first hour	\$2.20
Every subsequent $\frac{1}{2}$ hour or part thereof	\$0.80

Miss Ranjit parked her car from 9.00 a.m. to 2.15 p.m. How much did she pay for her parking?

- 1) \$6.20
- 2) \$6.40
- 3) \$8.80
- 4) \$9.40



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1h

Anglo-Chinese School (Junior)/ Anglo-Chinese School (Primary)



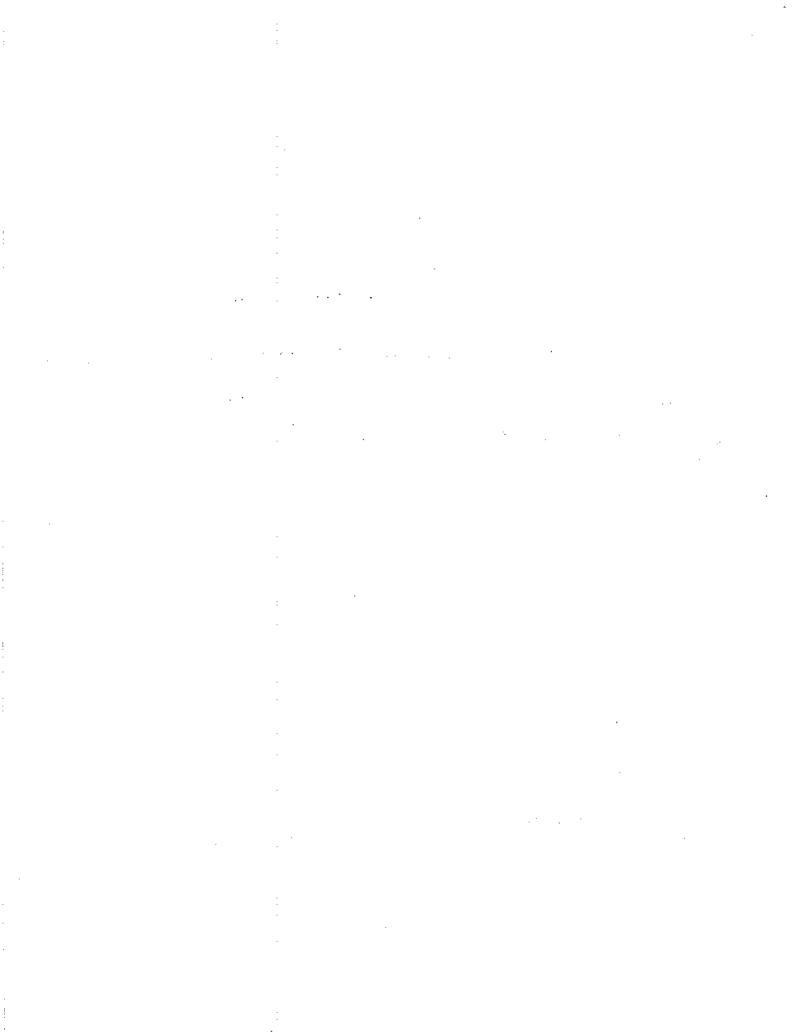
COMBINED PRELIMINARY EXAMINATION (2019) PRIMARY 6

MATHEMATICS

PAPER 1 Booklet B

Friday	23 August 2019	
1. Do not turn over this 2. Follow all instruction 3. Answer all questions 4. Write your answers 5. The use of calculate	page until you are told to do so. s carefully. s. in this booklet.	
Name :	(

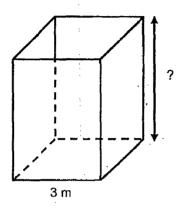
This question paper consists of 10 printed pages. (Inclusive of cover page)



	· · · · · · · · · · · · · · · · · · ·	·	(5 marks)
16.	Ashley watched a movie that laste	ed for 149 minutes. The n	novie started at
	11.05 a.m. At what time did the n		novio started at
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		Amouston	n m
		Answer:	p.m.
		i	
17.	Express $\frac{3}{11}$ as a decimal. Give y	our answer correct to 2 de	cimal places.
		•	
			* .
		Answer:	
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∪omi	oined ACS Prelim 2019	2 Sub	-Total :

18. The figure shows a cuboid with a square base of side 3 m.

The volume of the cuboid is 54 m³. Find the height of the cuboid.

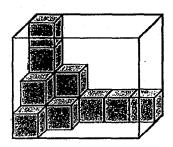


Answer: _____ m

19. Find the value of 2-0.008.

Answer:

20. The figure shows a rectangular glass box filled with some unit cubes. How many more cubes are needed to fill the box completely?



Answer:		
/ HIGHNOLL	 	

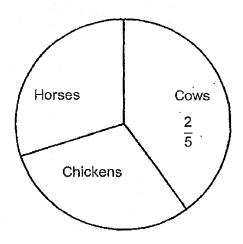
answe			working clearly and write your hich require units, give your (20 marks)
21.	The square below is madeach rectangle is 40 cm.		rectangles. The perimeter of the square?
·		·	
		Ans	wer:cm²
22.			y pencils as Laura. They each s do they now have altogether
	:		
	•		
		А	nswer:
Comb	pined ACS Prelim 2019	5	Sub-Total :

23. The average of a 1-digt number, a 2-digit number and a 3-digit number is 368. What is the smallest possible 1-digit number?

Answer:	

24. The pie chart represents the number of each type of animals in a farm. There is an equal number of horses and chickens.

There are 15 horses and $\frac{2}{5}$ of the animals are cows. How many cows are there?



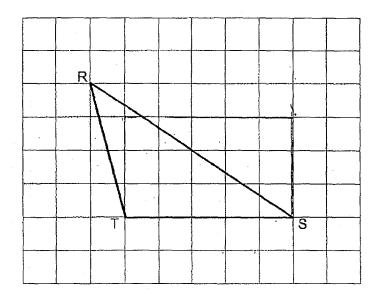
Answer:	

25.	Peter had 80 stickers. He used $\frac{1}{4}$ of his stickers and gave 30% of the
	remaining stickers to Elijah. How many stickers had Peter left?
	Answer:
26.	Daniel paid \$4800 for a laptop and 5 cameras. A laptop cost 3 times as much as a camera. How much did the laptop cost?
	A
	Answer: \$
Com	bined ACS Prelim 2019 7 Sub-Total :

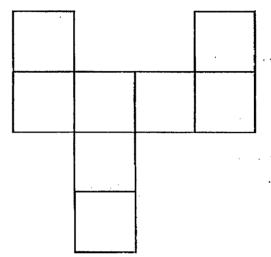
27. Susan has $\frac{7}{11}$ as many candies as Mary. After Susan gave 52 candies to Mary, both of them had the same number of candies. How many candies did Susan have at first?

Answer:	
, m (Ott O) ,	

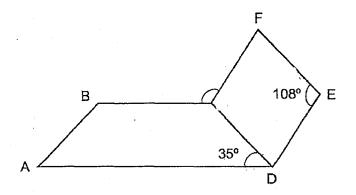
28. A triangle RST is drawn on the square grid below. Draw and label a rectangle STUV on the square grid such that the area of triangle RST is $\frac{2}{3}$ the area of rectangle STUV.



29. The figure below is an incorrect net of a cube. Put two crosses (X) on the two square faces which are incorrect.

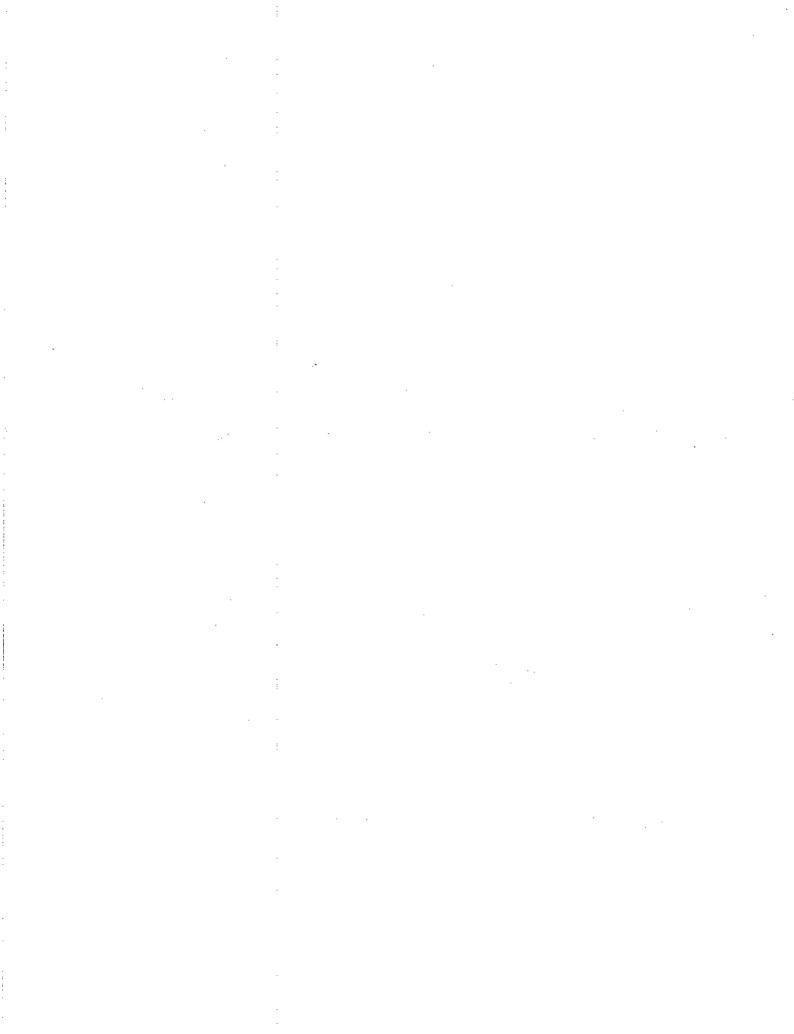


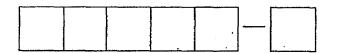
30. In the figure below, CDEF is a rhombus with ∠DEF = 108°. ABCD is a trapezium with CD parallel to EF and ∠ADC = 35°. Find ∠BCF.



Answer:	0

End of Paper 1





Anglo-Chinese School (Junior)/ Anglo-Chinese School (Primary)



COMBINED PRELIMINARY EXAMINATION (2019) PRIMARY 6

MATHEMATICS

PAPER 2

Friday

23 August 2019

1 h 30 min

INSTRUCTIONS TO PUPILS

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Show all your workings as marks are awarded for correct working.
- 5. Write your answers in this booklet.
- 6. The use of an approved calculator is expected, where appropriate.

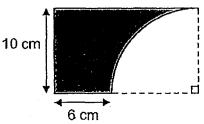
	Booklet / Paper	Possible Marks	Marks Obtained
Name : ()	Booklet A	20	
Class : 6.()	Booklet B	25	
	Paper 2	55	
Parent's Signature:	Total	100	

This question paper consists of 15 printed pages. (Inclusive of cover page)

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Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers to the units stated. (10 marks)

1. John cut out a quarter circle with a radius of 10 cm from a piece of rectangular paper as shown below. What is the perimeter of the shaded part? (Take $\pi = 3.14$)



Answer: ____cm

2. The table shows the number of pupils with the following scores.

Score	11	12	13	14	15
Number of pupils	3	1	0	2	4

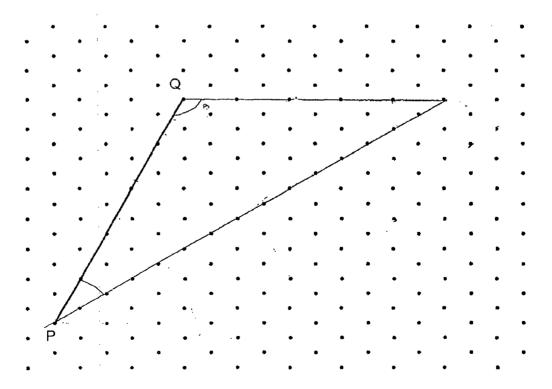
What was the average score of all the pupils?

Answer:

3. Mrs Lim bought some beads for Jessica and Karen. For every 8 beads Jessica took, Karen took 5. In the end, Jessica had 216 more beads than Karen. How many beads did Mrs Lim buy?

Answer:

4. In the grid below, draw and label an isosceles triangle PQR in which PQ = QR and ∠PQR is 120°. The line PQ is drawn for you.



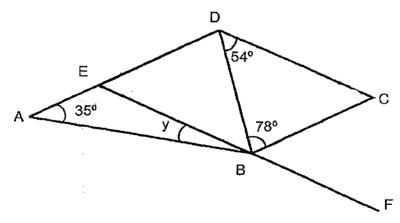
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A STATE OF THE STA			Answer:	\$

For questions 6 to 17, show your working clearly and write your answers in the in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

6. Amy had \$24.80 more than Beatty at first. After Beatty gave \$14.20 to Amy, Amy had 3 times as much money as Beatty in the end. How much did Beatty have at first?

Answer: [3]

7. In the figure, AED and EBF are straight lines and BCDE is a parallelogram. Find ∠y.

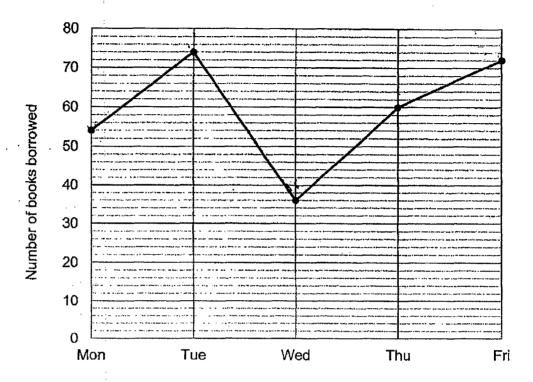


Answer: _____[3]

- 8. A shirt cost \$8n. A tie cost half as much as the shirt.
 - a) Mr Tan bought 6 identical ties and 1 shirt. How much money did he spend in terms of n?
 - b) Mr Tan spent \$256 on 6 identical ties and 1 shirt. Find the value of n.

Answer: (a)		[2
(h)	·	[1

9. The line graph shows the number of books borrowed from a library from Monday to Friday.



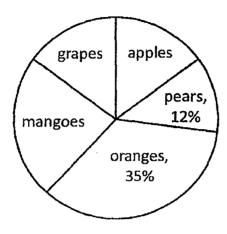
- (a) In which 1-day period was there the biggest change in the number of books borrowed?
- (b) Which were the two days when the ratio of the number of books borrowed were 3:4?

Answer: (a)_____ to____[1]

(b)_____ and ____ [2]

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					. *			
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					Answer	•		[3]

The pie chart shows the different types of fruits in a shop.There was an equal number of grapes and apples.There were 16 more mangoes than grapes.There were 200 fruits altogether.



- (a) What was the total number of mangoes, grapes and apples?
- (b) How many apples were there?

Answer:	(a)		[2]	
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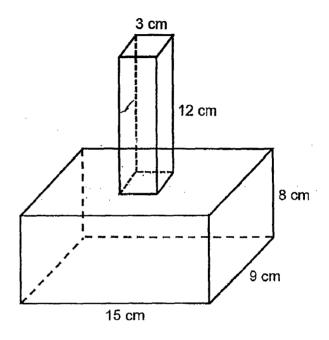
- 12. The ratio of the number of boys to the number of girls in Group A was 4:1. The ratio of the number of boys to the number of girls in Group B was 2:3. There were twice as many children in Group A as in Group B.
 - (a) What was the ratio of the number of boys in Group A to the number of boys in Group B?
 - (b) 10 boys and 10 girls left in Group B. The ratio of the number of boys in Group B to the number of girls in Group B became 1 : 2. How many children were there in Group A?

Answer:	(a)	[2
	(b)	[2

13. The figure shows an empty flower vase of height 20 cm. It is made from two containers. The top container is in the form of a cuboid which has a square base of 3 cm and a height 12 cm. The bottom container is in the form of a cuboid, measuring 15 cm by 9 cm by 8 cm.

 $1\frac{1}{8}$ ℓ of water is poured into the empty vase.

Find the height of the water level from the base of the vase.



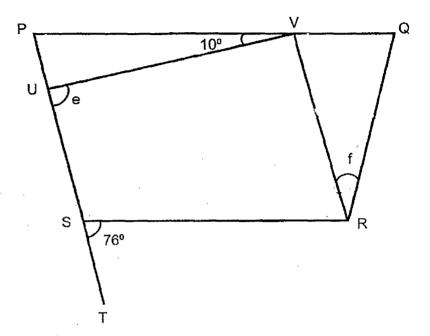
Answer:	[4	1
, 11101101.	 r.	ı

14. Joyce had some money. She bought a dress, a shirt and a watch. She spent ¹/₅ of her money on the shirt. The shirt cost \$24 less than the dress. The watch cost \$102. She was left with ¹/₄ of the amount of money she had at first. How much money did Joyce have at first?

Answer: _____[4]

15.	coins. Box B has 6	60 more coins than Bore than the value o	hile Box B contained on Box A but the value of all to of all the coins in Box B	he coins in
	amount of money i	II BOX A.		
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			.**	
			Answer:	[4]

- 16. In the figure shown below, PQRS is a trapezium. PS // VR and VR = QR. PST is a straight line.
 - a) Find ∠e.
 - b) Find ∠f.

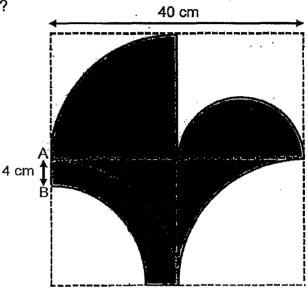


Answer: (a)_____[3]

(b)_____[2

- 17. A figure is drawn on a square piece of paper with length 40 cm as shown below. Its outline consists of 2 identical large quarter circles, 1 smaller quarter circle, 1 semicircle and 3 straight lines. The length of AB is 4 cm.
 - (a) What is the area of the figure?
 - (b) What is its perimeter?

(Take $\pi = 3.14$)



Answer: (a)_____[3]

(b)____[2]

Answer Sheets

ACS Pri 6 SA2/2019 MATHS

Paper 1

1.	4	6.	4	4.	11.	1
2.	4	7.	2		12.	3
3.	1	8.	3		13.	3
4.	2	9.	1		14.	2
5.	3	10.	3		15.	4

16.1.34pm

17.0.27

18.6m

19.1.992

20.47

21.256cm²

22.3m+14

23.6

24. 20

25.42

26.\$1800

27.182

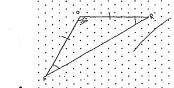
R

29.

30.1070

Paper 2

28.



1.47.7cm

2.13.3

3.936

4

5.\$3.20

6.\$40.80

 7.13°

8a\$32n

8b.\$8.300

9a. Tuesday to Wednesday 9b. Monday to Friday

Juy J _ . .

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ou.racoudy to tro

10.3 Km

11a.106

11b.30

12a.4: 1

12b.100

13.13cm

14.\$360

15.\$27.50

16a.86º

16b.28⁰

17a.756.04cm²

17b.147.32cm





AITONG SCHOOL

2019 PRELIMINARY EXAMINATION PRIMARY 6

STANDARD MATHEMATICS PAPER 1 (Booklets A and B)

DURATION	9	7 h	

DATE : 23 AUGUST 2019

INSTRUCTIONS

Do not open the booklet until you are told to do so.

Follow all instructions.

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

You are not allowed to use a calculator.

Name:()		
Class: Primary 6	Marks:	
6M	Paper 1	45
Parent's Signature :	Paper 2	55
Date :	Total	100

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Paper 1

Booklet A

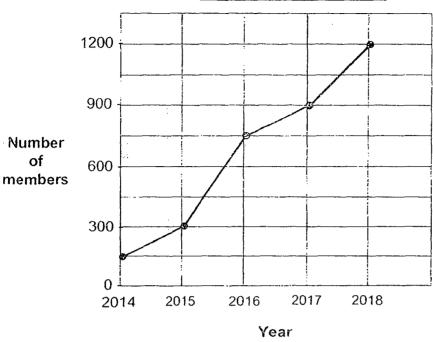
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

- 1 In 9 783 124, the digit 7 stands for 7 × . . .
 - (1) 100
 - (2) 1000
 - (3) 10 000
 - (4) 100 000
- 2 Spencer spent 40% of his money on a wallet and had \$240 left. How much did the wallet cost?
 - (1) \$160
 - (2) \$144
 - (3) \$96
 - (4) \$80
- 3 Simplify 6 + 9r 2 + 2r.
 - (1) 7r + 4
 - (2) 7r + 8
 - (3) 11r + 4
 - (4) 11r 8
- 4 Express 1.4 hours in hours and minutes.
 - (1) 1 h 4 min
 - (2) 1 h 10 min
 - (3) 1 h 24 min
 - (4) 1 h 40 min

- 5 What is the digit in the tenths place in the sum of 44.2 and 0.81?
 - (1) 1
 - (2) 0
 - (3) 5
 - (4) 4
- Ahmad, Brayden and Kelly shared a packet of candies in the ratio of 2:3:4. Kelly had 24 candies. How many candies were there in the packet?
 - (1) 72
 - (2) 54
 - (3) 36
 - (4) 30

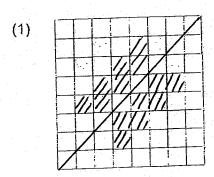
The line graph below shows the number of members in a fitness club from 2014 to 2018. Study the graph and answer questions 7 and 8.

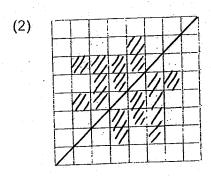
Fitness Club Membership

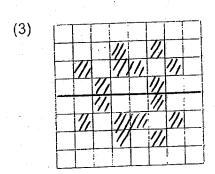


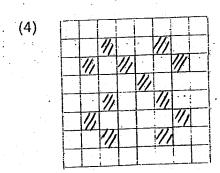
- 7 How many members were there in 2016?
 - (1) 700
 - (2) 750
 - (3) 800
 - (4) 850
- 8 Between which 2 years was there a 100% increase in membership?
 - (1) 2014 and 2015
 - (2) 2015 and 2016
 - (3) 2016 and 2017
 - (4) 2017 and 2018

9 Which figure below does not have any line of symmetry?



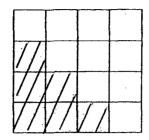




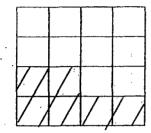


10 The solid shown is made up of identical unit cubes. Which of the following shows the front view the solid?

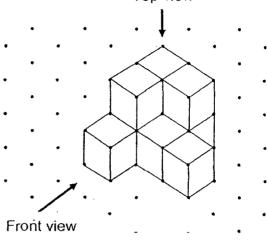




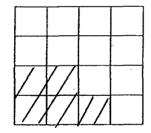
(2)



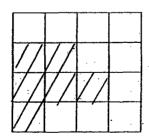
Top view



(3)

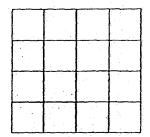


(4)

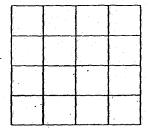


The solid shown is made up of identical unit cubes. Which of the following shows the front view the solid?

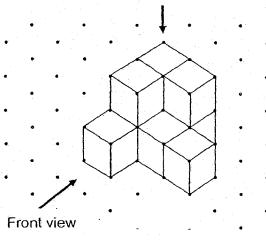
(1)



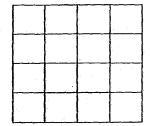
(2)



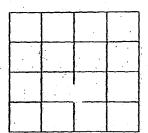
Top view



(3)



(4)



12		er is 13 years old in 5 years' time?	now. His father is 3 times as old as he. What is their total
	(1)	44 years	
	(2)	52 years	
	(3)	57 years	
	(4)	62 years	
13	If Je		mates scored an average of 80 marks in their Chinese test. marks, their average score would have been 83 marks. Jeff score?
	(1)	67	
	(2)	76	•
	(3)	82	•
	(4)	91	
14	cupo	akes in the after	cupcakes in the morning and 40% of the remaining noon. The number of cupcakes left in the end was $\frac{1}{3}$ of what many cupcakes were sold in the afternoon?
	(1)	40	
	(2)	60	
	(3)	150	
	(4)	270	
	, .		
15	In 9	minutes, 5 stude	ding paper cranes during a craft lesson. nts can fold 10 paper cranes. At this rate, how long does it fold 54 paper cranes altogether?
	(1)	18 min	
	(2)	27 min	·
	(3)	45 min	
	(4)	81 min	

Paper 1 Booklet B

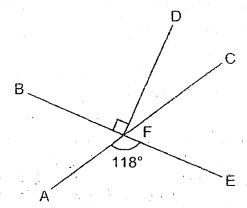
Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(5 marks) Do not write in this space

Mr Tan sold his car for \$163 458. Round the amount to the nearest thousand dollars.

Ans: \$_____

17 In the figure, AFC and BFE are straight lines. Find ∠CFD.



Ans: _____

Shan Shan counted a total of 50 sheep and chicken at a farm. She also counted the number of legs of these animals. Help her complete the table below correctly.

Do not write in this space

	Number of animals	Number of legs
Sheep (4 legs each)	(a)	(c)
Chicken (2 legs each)	(b)	24

Stella had \$m. She spent $\frac{2}{5}$ of it at the bookshop.

How much money had she left?

Ans: \$

The solid below is made up of 1-cm cubes to form the letter H.

What is the volume of the solid?

Ans:

 cm^3

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

Do not write in this space

Jack took $\frac{1}{2}$ h to walk 3 km at an average speed of 6 km/h, and $1\frac{1}{2}$ h to walk another 6 km at an average speed of 4 km/h. What was his average speed for the whole journey?

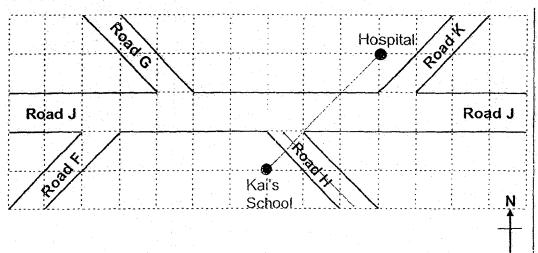
Ans: km/h

Kate had 28 more cards than Raj at first. Then, Raj gave 12 of his cards to Kate. In the end, Kate had 3 times as many cards as Raj. How many cards did Raj have at first?

Ans:

The figure below shows a map drawn on a square grid around Kai's school.

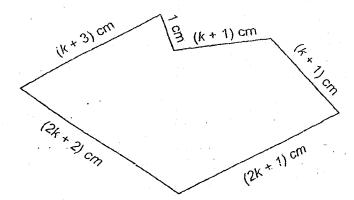
Do not write in this space



- (a) In which direction is the hospital from Kai's School?
- (b) Kai was walking along Road J. When he turned into another road, he faced south-east. Which road did he turn into?

Ans:	(a)		
	(b)		

Marcus used a piece of wire to make the figure shown below.

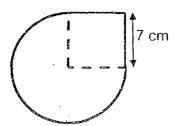


What was the length of the wire used by Marcus? Leave your answer in the simplest form in terms of k.

Ans: _____cm

The figure made up of three identical quarter circles and a square of side 7cm. Find the perimeter of the figure. Take $\pi = \frac{22}{7}$.

Do not write in this space



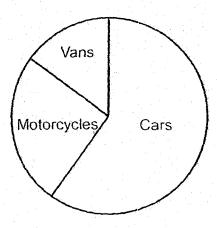
Ans: _____ cm

Jake's mass is $\frac{4}{7}$ of Lionel's mass. Matthew's mass is $\frac{5}{8}$ of Jake's mass. What is the ratio of Jake's mass to Lionel's mass to Matthew's mass?

Ans:

The pie chart below shows 3 types of vehicles that were parked in a carpark. There were 15 motorcycles. Study the pie chart to fill in the table below.

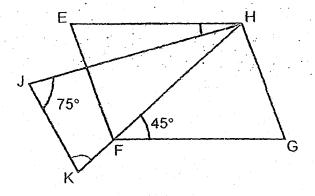
Do not write in this space



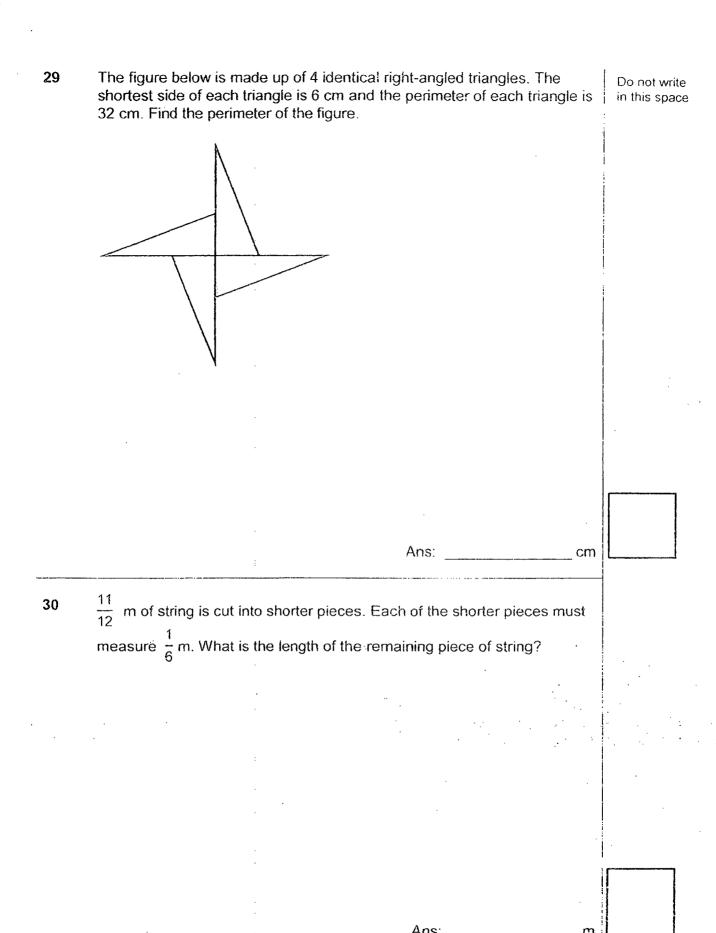
Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (\checkmark) in the correct column.

Statement	True	False	Not possible to tell
More than half the vehicles were cars.			
There were 10 more motorcycles than vans in the carpark.			

In the figure, EFGH is a parallelogram. HJ = HK, \angle HJK = 75° and \angle HFG = 45°. Find \angle EHJ.



Ans:



End of Paper 1

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AI TONG SCHOOL

2019

PRELIMINARY EXAMINATION PRIMARY 6

STANDARD MATHEMATICS PAPER 2

DURATION		1 h 30 min	
DATE	:	23 AUGUST 2019	
INSTRUCTIO Do not open the Follow all instruction Answer all ques You are allowed	bool ctions tions	· •	
Name:			
6M			Marks:
Parent's Signa	ture		
Date			55

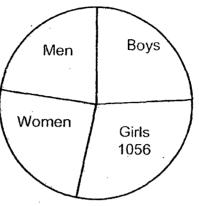
and the second of the second o

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space.

The pie chart below shows the number of visitors to a Theme Park last Saturday. There were a total of 3520 visitors.

What percentage of the visitors were men?



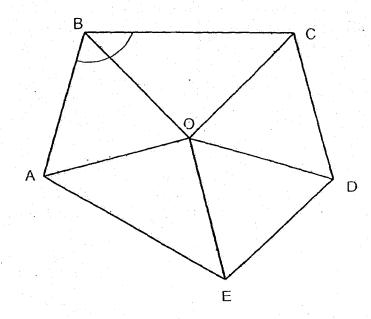
Ans: %

Box A when empty has a mass of 1.8 kg. It has a mass of 21.4 kg when it contains 8 identical packets of flour and 6 identical packets of salt. Each packet of flour has a mass of 2 kg 60 g. What is the mass of each packet of salt? Give your answer in kilograms.

Ans: _____kg

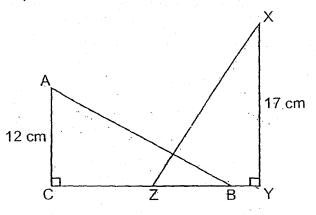
In the figure, AOB, EOD and DOC are equilateral triangles. AE = BC 3 Find ∠ABC.

Do not write in this space.



Ans:

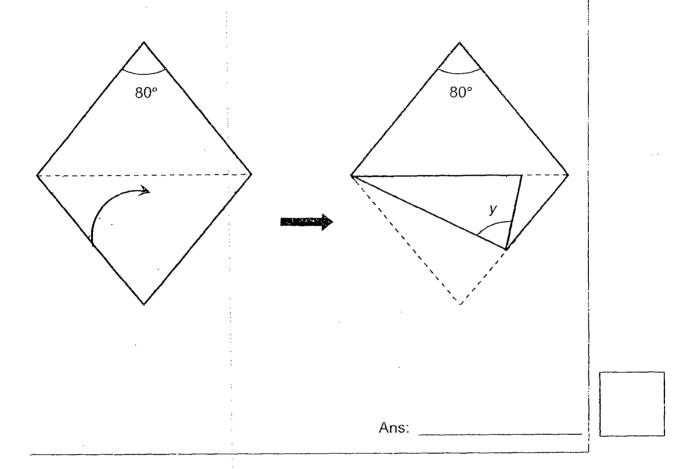
In the figure below, ABC and XYZ are identical right-angled triangles. 4 The total area of the shaded parts is 130 cm². Find the area of the unshaded part.



Ans:

A piece of paper in the shape of a rhombus is folded along the dotted line as shown. Find ∠y.

Do not write in this space.

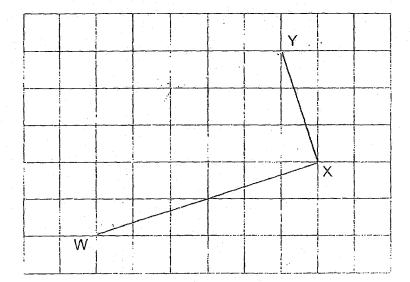


For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in bracket [] at the end of each question or part-question. For questions which require units, give your answers in the units stated

Do not write in this space

(45 marks)

- In the square grid, WX and XY are two sides of a trapezium. WX is parallel to ZY. WX is twice the length of ZY.
 - (a) Complete the drawing of trapezium WXYZ. Label Z.
 - (b) Measure and write down the size of ∠XWZ.

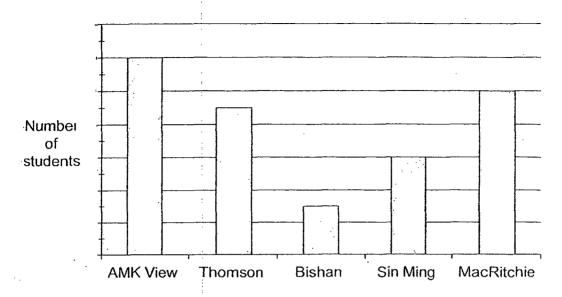


[2]

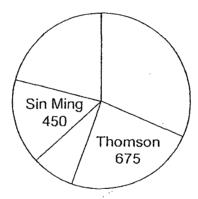
Ans: (b) _____[1]

7 The graph below shows the number of students in five different schools in 2019. The number of students is not shown on the scale.

Do not write in this space



The same data is partially shown in the pie chart below:



- (a) The total enrolment of two of the schools is equal to the enrolment of AMK View School. Which two schools are these?
- (b) How many students are there in MacRitchie School?

3		dotted lines jo		es of the circles to		Do not write in this space
				1	\mathcal{N}	
					1	
				1		
)	
				Ans:		[3]
9	in opposite o apart. Pete's	lirections alor average spe	ng a straight eed was 11.2	ame time from the road. After 3h, the km/h faster than	ey were 510.3 kr	n
	in opposite o apart. Pete's	lirections alor average spe	ng a straight	road. After 3h, the km/h faster than	ey were 510.3 kr	n
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	in opposite o apart. Pete's	lirections alor average spe	ng a straight eed was 11.2	road. After 3h, the km/h faster than	ey were 510.3 kr	n
	in opposite o apart. Pete's	lirections alor average spe	ng a straight eed was 11.2	road. After 3h, the km/h faster than	ey were 510.3 kr	n
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	in opposite o apart. Pete's	lirections alor average spe	ng a straight eed was 11.2	road. After 3h, the km/h faster than	ey were 510.3 kr	n

At the Home Appliance Warehouse Sale, Mr Chua bought a vacuum cleaner and a washing machine for a total of \$2980 after discount. He paid \$464 more for the washing machine than the vacuum cleaner.

Do not write in this space

- (a) Find the percentage discount given for the vacuum cleaner.
- (b) Find the usual price of the washing machine.



Vacuum Cleaner Usual price: \$1480

Discount: 🧐



Washing Machine Discount: 20%

Ans:	(a)		[2]
------	-----	--	-----

(b)____[2]

11	The number of boys and girls in a hall was in the ratio 4:5. After 170 boys and 20% of the girls went back to their classrooms, the ratio of the number of boys to the number of girls in the hall became 1:2.	Do not write in this space
	How many children were there in the hall in the end?	
1.		
	Ica)	

Eddy sold phone cards during a part-time holiday job. For every phone card sold, he would receive \$0.60. For every 20 phone cards sold, he would receive an additional \$4.50.

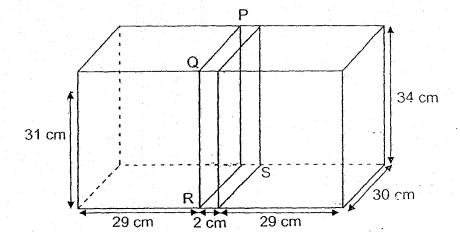
Do not write in this space.

- (a) How much did he receive after selling 20 phone cards?
- (b) How many phone cards did Eddy need to sell to receive at least \$150?

Ans: (a)	[1]	

A rectangular tank measures 60 cm by 30 cm by 34 cm. It is divided into two parts by a piece of plastic PQRS that is 2 cm thick. One part of the container contains water to a depth of 31 cm. When the piece of plastic PQRS is removed, what is the height of the water level in the tank? Give your answer correct to 1 decimal place.

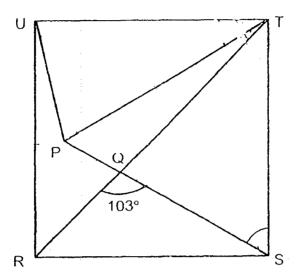
Do not write in this space.



Ans: ____[4]

In the figure, RSTU is a square. TU = TP and \angle RQS = 103° . Find \angle PTU.

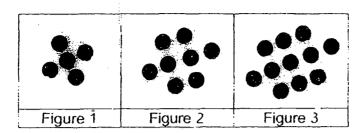
Do not write in this space



Ans: _____[4]

	to Betty and E sweets to Cat girls had an e	Betty's sweets tty and Catty's qual number o	were double sweets we	Aileen gave so ed. Then, Betty re doubled. As ach. How many	gave some a result, the	of her three	Do not wri	te ce
	have at first?							
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		$w = \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right)$						- 1

16 The figures in the pattern below are made up of dots.



Do not write in this space.

- (a) How many dots are required to form the Figure 5?
- (b) Write down the number of dots in the Figure 50.
- (c) Which Figure has 269 dots?

Ans: (a)	[1	j	
----------	----	---	--

Mrs Sim sold some tennis rackets and badminton rackets for \$17 043. Each tennis racket cost \$273 and each badminton racket cost $\frac{3}{7}$ as much as the tennis racket. $\frac{2}{5}$ of the rackets sold were tennis rackets.

Do not write in this space.

- (a) How much did each badminton racket cost?
- (b) How many badminton rackets were sold?

Ans: (a) _____[1

(b) _____[4

END OF PAPER CHECK YOUR WORK CAREFULLY! SCHOOL: AI TONG PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT: MATH

TERM: 2019 PRELIM

CONTACT: CALL MR GAN @ 9299 8971, 8606 5443

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	1	3	3	2	2	2	1	4	3

Q 11	Q12	Q13	Q14	Q15
2	4	1	2	4

PAPER 1 BOOKLET B

Q16)	\$163000	
047)	000	
Q17)	28°	
Q18)	a)38	
Q 10,	b)12	
	c)152	
Q19)	$(\frac{3m}{5})$	
Q20)	24cm³	
		·
Q21)	3 + 6 = 9	
	1/2 + 11/2 = 2	
	$9 \div 2 = 4.5 \text{km/h}$	
0.00		
Q22)	2u→12 + 28 + 12	= 52
	1u→26	
l	26 + 12 = 38	

Q23)	a)North-east
	b)Road H
Q24)	(7k + 9)cm
Q25)	$\frac{3}{4} \times \frac{22}{7} = \frac{66}{28}$
	$=\frac{33}{14}$
	$\frac{33}{14} \times \frac{14}{1} = \frac{33}{1}$
	= 33
	33 + 7 + 7 = 47
Q26)	8:14:5
Q27)	True
	Not possible to tell
Q28)	75 + 75 = 150
	180 - 150 = 30
	$45 - 30 = 15^{\circ}$
Q29)	32 - 6 = 26
	26 - 6 = 20
	20 x 4 = 80 cm
Q30)	$\frac{11}{12} \div \frac{1}{6} = \frac{11}{12} \times \frac{6}{1} = \frac{11}{2}$
.	$= 5\frac{1}{2}$
1	$\frac{1}{2} \times \frac{1}{6} = \frac{1}{12} \text{ m}$

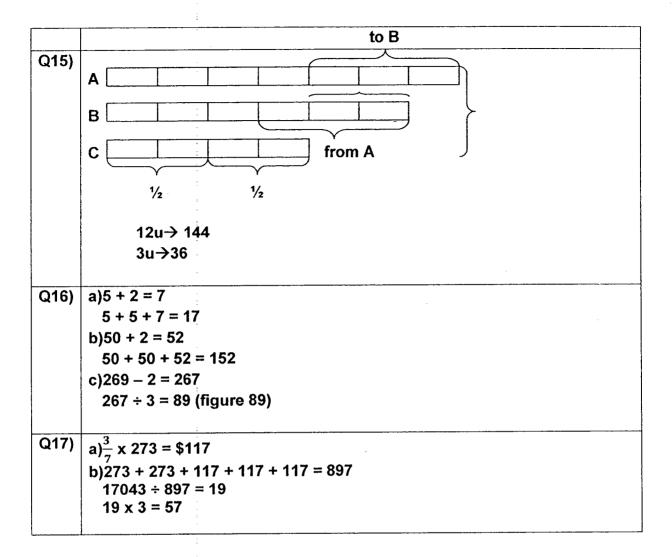
PAPER 2

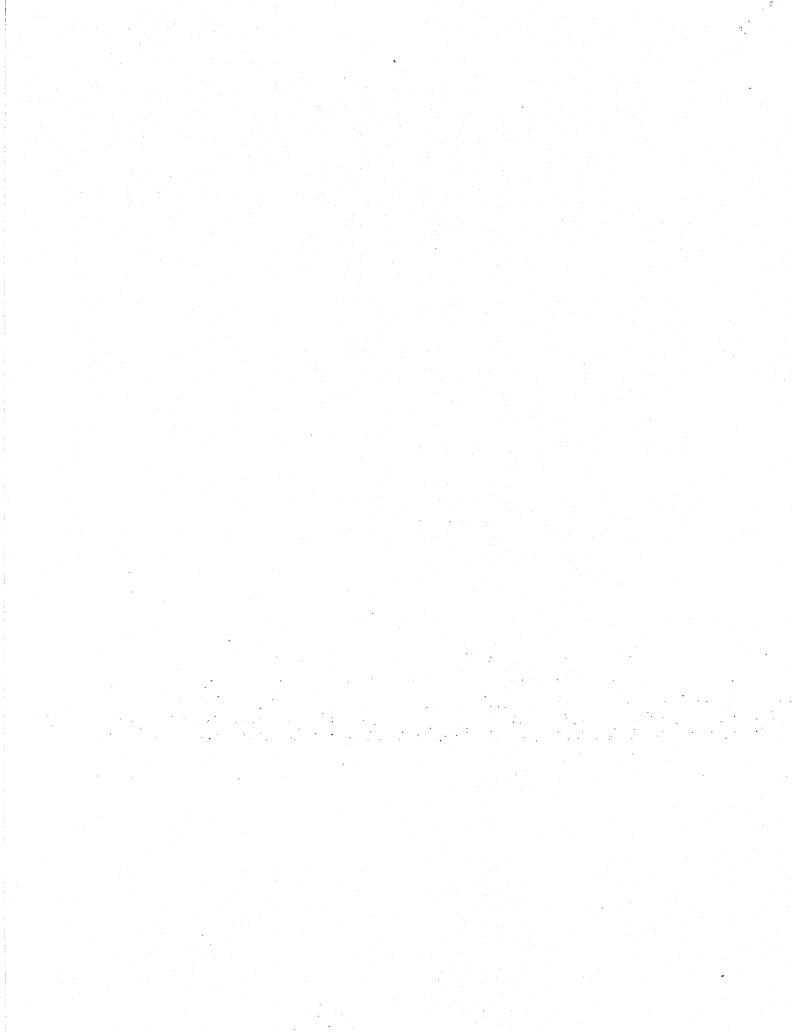
Q1)
$$3520 \div 2 = 1760$$

 $1760 - 1056 = 704$
 $\frac{704}{3520} = \frac{1}{5} = \frac{20}{100} = 20\%$
Q2) $21.4 - 1.8 = 19.6$
 $2.06 \times 8 = 16.48$
 $19.6 - 16.48 = 3.12$
 $3.12 \div 6 = 0.52$ kg

Q3)	360° - 60° - 60° - 60° = 180° 180° ÷ 2 = 90° 180° - 90° = 90° 90° ÷ 2 = 45° 45° + 60° = 105°
Q4)	1/2 x 12 x 17 = 102 102 + 102 = 204 204 - 130 = 74 74 ÷ 2 = 37cm ²
Q5)	180° - 80° = 100° 100° ÷ 2 = 50° 50° ÷ 2 = 25° 180° - 80° - 25° = 75°
Q6)	a) Y X W
	b)45°
Q7)	675 - 450 = 225 225 ÷ 3 = 75 225 + 675 = 900
	a)Thomson and Bishan b)750
Q8)	16 + 16 = 32 32 x 32 = 1024 3.14 x 16 x 16 = 803.84 1024 - 803.84 = 220.16 cm ²
Q9)	11.2 x 3 = 33.6 510.3 - 33.6 = 476.7 476.7 ÷ 2 = 238.35 238.35 ÷ 3 = 79.45 km/h

```
Q10) a)2980 - 464 = 2516
         2516 \div 2 = 1258
         85\% \times 1480 = 1258
         100 - 85 = 15\%
       b)2980 - 1258 = 1722
         80% →$1722
         100% →$2152.50
Q11)
         В
            : G
        4u : 5u
       -170 : 1u (20%x 5u)
       (2u)1p: 2p(4u) \rightarrow 6u (whole thing)
       1p = 4u - 170
       2p = 8u - 340
       4u = 8u - 340
       1u = 85
       6u = 510
Q12)
        0.6 \times 20 = 12
        12 + 4.5 = 16.5
        16.5 \times 9 = 148.5
        148.5 + 0.6 + 0.6 + 0.6 = 150.3
        20 \times 9 = 180
        180 + 3 = 183
       a)$16.50
       b)183
Q13)
       60 \times 30 \times 34 = 61200
       2 \times 30 \times 34 = 2040
       31 \times 29 \times 30 = 26970
       60 \times 30 = 1800
       26970 ÷ 1800 ≈ 15.0 cm
Q14)
       180 - 103 = 77
       180 - 103 - 45 = 32
       90 - 32 = 58
       180 - 58 - 58 = 64
       90 - 64 = 26^{\circ}
```







HENRY PARK PRIMARY SCHOOL 2019 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 1 (BOOKLET A)

Name:	. ()	Parent's Signature
Class: Primary 6			

Marks:

Mai Vo.		
Paper 1	Booklet A	
	-	20
	Booklet B	
	·	25
Paper 2		
		55
Total		
		100

Total Time for Booklets A and B: 1 hour

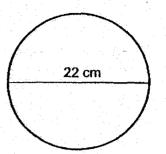
Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.
You are **not** allowed to use a calculator.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer in the Optical Answer Sheet.

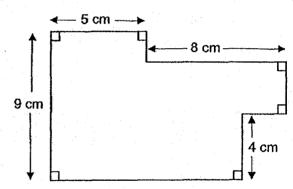
(20 marks)

- 1 What does the digit 9 in 6.789 stand for?
 - (1) 9 thousandths
 - (2) 9 hundredths
 - (3) 9 tens
 - (4) 9 ones
- 2 Express 10k + 8 2k 3 in the simplest form.
 - (1) 5k + 8
 - (2) 8k + 5
 - (3) 12k + 5
 - (4) 16k-3
- In a class of 40 students, 15% of them do not wear spectacles. How many students wear spectacles?
 - (1) 6
 - (2) 15
 - (3) 25
 - (4) 34

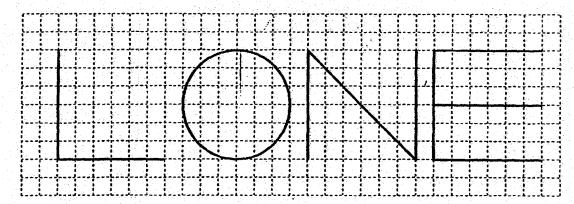
- The figure shows a circle with diameter 22 cm. Find the area of the circle in terms of π .
 - (1) $11\pi \text{ cm}^2$
 - (2) $22\pi \text{ cm}^2$
 - (3) $121\pi \text{ cm}^2$
 - (4) $282\pi \text{ cm}^2$



- 5 What is the perimeter of the figure shown below?
 - (1) 26 cm
 - (2) 39 cm
 - (3) 43 cm
 - (4) 44 cm



6 Four letters are shown on the square grid below.

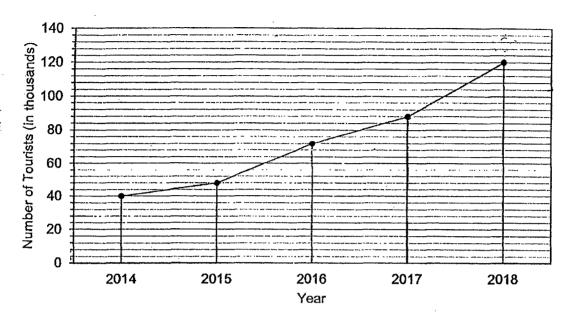


How many of the letters above is/are NOT symmetrical?

- (1) 1
- (2) 2
- (3) 3
- (4) 4
- A number when divided by 20 gives a remainder of 6. Which of the following can be added to the number to change it to a multiple of 8?
 - (1) 10
 - (2) 7
 - (3) 5
 - (4) 4

Use the information below to answer Questions 8 and 9.

The line graph below shows the number of tourists who visited Country X from 2014 to 2018.

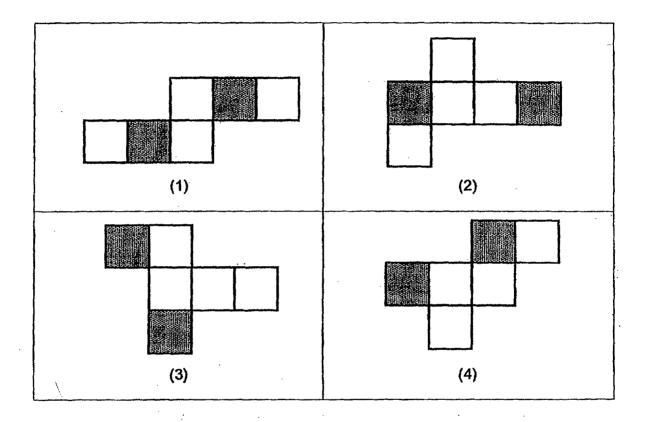


- 8 In which of the following periods did the number of tourists increase the most?
 - (1) 2014 to 2015
 - (2) 2015 to 2016
 - (3) 2016 to 2017
 - (4) 2017 to 2018
- The number of tourists in 2019 was a 20% decrease from the number of tourists in 2018. How many tourists (in thousands) visited Country X in 2019?
 - (1) 24
 - (2) 90
 - (3) 96
 - (4) 100

The figure shows a cube. Two faces of the cube were shaded and the remaining faces were white.



Which one of the following is NOT the net of the cube?

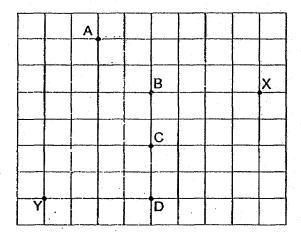


The table below shows the number of books read by 37 students in August. The number of students who read 5 books were not shown in the table.

Number of books	1	2	3	4	5
Number of students	10	8	7	9	?

How many students read at least 3 books in August?

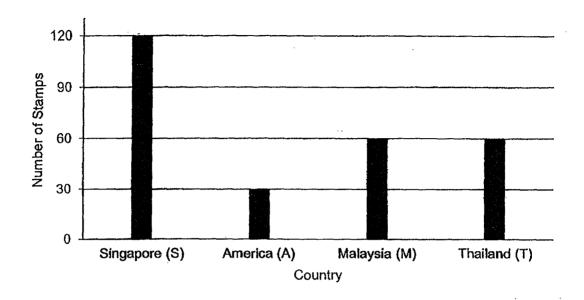
- (1) 7
- (2) 16
- (3) 19
- (4) 25
- 12 Five attractions on a map of a town are shown in the square grid below.



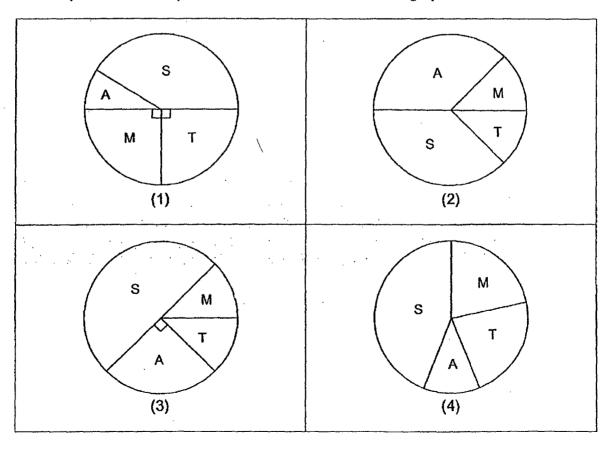
Mike is at one of the attractions. He is facing X. When he turns 135° clockwise, he faces Y. Which attraction is Mike at?

- (1) A
- (2) B
- (3) C
- (4) D

13 The bar graph shows the number of stamps from four different countries that Peter collected.



Which pie chart best represents the information in the bar graph?



- Calista and Dylan had the same number of stickers at first.

 After Calista gave ¹/₈ of her stickers to Dylan, she had 24 fewer stickers than Dylan.

 How many stickers did Calista and Dylan have altogether?
 - (1) 84
 - (2) 96
 - (3) 192
 - (4) 216
- Jane packed 408 cupcakes into a number of boxes.

 Each box contained either 10 or 6 cupcakes.

 Given that Jane used the least number of boxes to pack all the cupcakes, how many of the boxes contained 10 cupcakes each?
 - (1) 25
 - (2) 26
 - (3) 39
 - (4) 40

보고 말한 보고 한 바다 세요?			
The state of the s	회사 회사 시작하는 항상 사람.		



HENRY PARK PRIMARY SCHOOL 2019 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 1 (BOOKLET B)

Name:	())	
Class: Primary 6			25
Class. Filliary 0			25

Total Time for Booklets A and B: 1 hour

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

You are not allowed to use a calculator.

			(5 marks)	
6	Find the value of 108.5 + 1.99			
	가는 사람들은 사람들이 되었습니다. 1980년 - 1980년			
		Ans:		
_	2			
	Express $5\frac{2}{25}$ as a decimal.			
		Ans:		
	28-2a			
	Find the value of $7a + \frac{28 - 2a}{5}$	when <i>a</i> = 9		
	Find the value of $7a + \frac{28 - 2a}{5}$	when <i>a</i> = 9		
	Find the value of $7a + \frac{28 - 2a}{5}$	when <i>a</i> = 9		
	Find the value of $7a + \frac{28 - 2a}{5}$	when <i>a</i> = 9		
	Find the value of $7a + \frac{28 - 2a}{5}$	when <i>a</i> = 9		
	Find the value of $7a + \frac{28 - 2a}{5}$	when <i>a</i> = 9		

19	Janet thought of a number with 2 decimal places. When she rounded it to the nearest whole number, it became 37 What was the greatest possible number that Janet could have thought of?	Do not write in this space
	Ans:	L
	elikaria. Na dia pambangan kanangan mala banangan mala dia pangala dia banangan kanangan dia banas dia banas d Banangan	
20	Find the average of the following list of numbers:	
•		
•	Ans:	La constant de la con

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

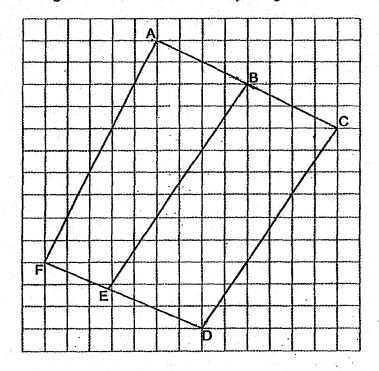
Do not write in this space

(20 marks)

21 List all the common factors of 14 and 35

Ans:

22 The figure below is drawn on a square grid.



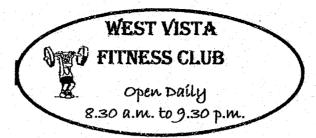
- (a) Name two lines that are parallel to each other.
- (b) Name two lines that are perpendicular to each other.

Ans: (a) _____ and ____

(b) _____ and ____

The opening hours of a gym are shown below.

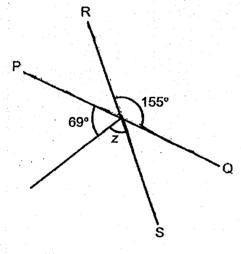
Do not write in this space



- (a) How long is the gym open each day?
- (b) Mrs Ling spent 1 h 45 min at the gym. Given that she finished her workout at 5.25 p.m., what time did she start her workout?

Ans:	(a)	· .		 		h	
							1
4.5	(b)	100			p.m		·

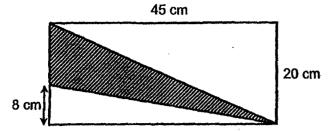
24 In the figure, PQ and RS are straight lines. Find $\angle z$.



Ans: _____°

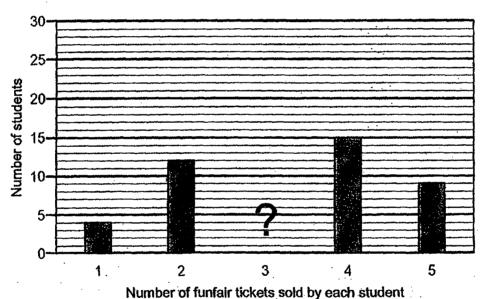
25 Find the area of the shaded part of the figure.

Do not write in this space



Ans: _____cm²

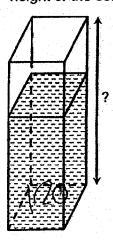
The bar graph shows the number of funfair tickets sold by a group of students. The bar showing the number of students who sold 3 tickets each is not shown. Given that $\frac{3}{8}$ of the students sold 3 tickets each, find the number of students who sold 3 tickets each.



Ans: _____

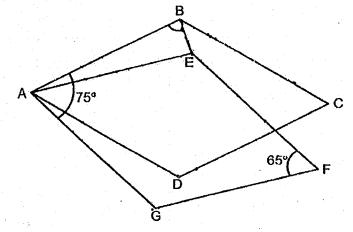
The rectangular tank shown below is $\frac{2}{3}$ -filled with water. The base area of the tank is 120 cm². Given that it contained 2.4 litres of water, what is the height of the container?

Do not write in this space



Ans: cm

In the figure, ABCD and AEFG are identical rhombuses, ∠BAG = 75° and ∠EFG = 65°. Find ∠ABE.



Ans: _____°

29	The table below shows how	/ much a sh	op charges a	customer for	renting an
	electric scooter.	4.			

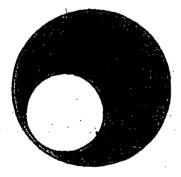
Do not write in this space

First 1 hour	\$12
Every additional $\frac{1}{2}$ hour	\$4

Ayomi paid \$30 for renting an electric scooter starting from 07 30 What would be the latest time that she must return the scooter to the shop? Express your answer using the 24-hour clock.

	-	1
Ans:	-	ł

The figure shows two circles. The ratio of the diameter of the small circle to the diameter of the large circle is 1 . 2 The area of the small circle is 42 cm² What is the area of the shaded part of the figure?



Ans:	cm²



HENRY PARK PRIMARY SCHOOL 2019 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 2

					Parent's	Signature
Name:			()		
Class: F	Primary 6_		<u></u> -		55	<u>5</u>

Time for Paper 2: 1 hour 30 minutes

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Show your working clearly as marks are awarded for correct working.

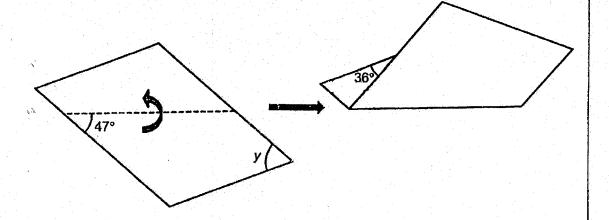
Write your answers in this booklet.

You are allowed to use a calculator.

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your						
ansv	vers in the units stated. (10 m	ıarks)				
1	Joanne had a ribbon measuring 18 m in length. She cut the ribbon into shorter pieces, each measuring $\frac{4}{5}$ m.					
	(a) What would be the most number of $\frac{4}{5}$ -m pieces that she could c	ut?				
	(b) What would be the length of the ribbon left in the end?					
	Ans: (a)					
	(b)	m L				
2	The numbers on Card X and Card Y are 3-digit numbers. The first digit Card Y is shown below.	on				
	3 Card X					
	Given that the average of the two numbers on Card X and Card Y is 30 find the smallest possible number on Card X.	0.				
	보이 마음에 가능될 것이고 하게 하는 생각이 남을 하는 것이다. 그 사람 중의 아일이 된 사람들은 사람들이 되는 사람들이 다시 하는 것이다.					
	Ans:					

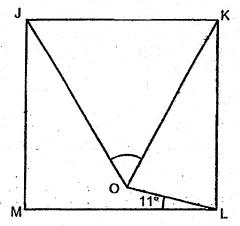
A piece of paper in the shape of a parallelogram is folded along the dotted line as shown below. Find $\angle y$

Do not write in this space



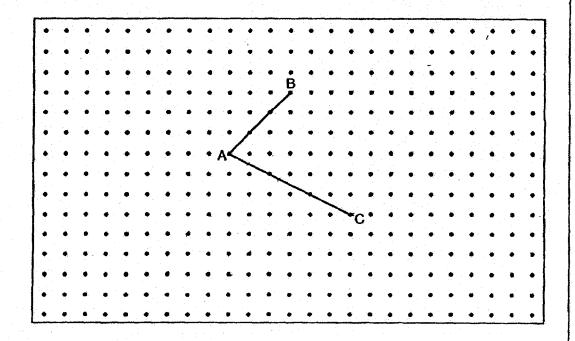
Ans:

In the figure below, JKLM is a square, \angle MLO = 11° and KL = KO. Find \angle JOK.



Ans: _____°

5



- (a) X is one of the dots inside the box. Draw two lines AX and CX to complete a right-angled triangle ACX with AC = AX.
- Y in one of the dots inside the box. Draw two lines BY and CY to complete a trapezium ABYC where AB is parallel to CY and the length of CY is twice the length of AB.

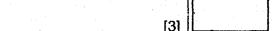
For guestions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in the brackets [] at the end of each question or part-question.

Do not write in this space

(45 marks)

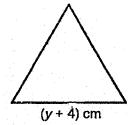
6 In a Sports Meet, the ratio of the number of runners in the Blue Team to the Red Team is 3:5. The ratio of the number of runners in the Yellow Team to the Blue Team is 3:4. There are 66 more runners in the Red Team than the Yellow Team. How many runners are there altogether?

> Ans: [3]



Isaac had 1.2 m of wire. He used all of it to form two equilateral triangles 7 shown below.





- Find the total perimeter of both triangles in terms of y in the simplest (a) form.
- Find the value of y. (b)

[1] Ans: (a)

> [2] (b)

(Go on to the next page)

t of every plano that our sons, she came a sum of money as shown below.	in this space
10% of the first \$500 of the selling price	
and	
8% of the remaining selling price	
Siti sold a piano and earned \$650. What was the selling price of the piano?	
Ans:[3]	
At first, Kendrick had a total of 117 pencils and erasers altogether. He gave	
away 25 pencils and bought more erasers to increase the number of his erasers by 60%. In the end, Kendrick had a total of 137 pencils and erasers altogether. How many pencils did Kendrick have at first?	
Ans:[3]	

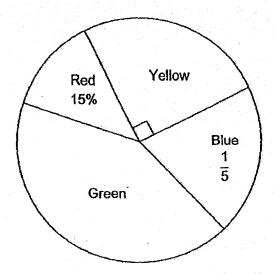
Joyce and Val ran in a race. Joyce ran at a speed of 200 m/min. When Val was at the halfway point of the race, Joyce was 2.5 km ahead of Val Both of them did not change their speed throughout the race. Joyce completed the race at 11.50 a.m. What time did Val complete the race? 10 Do not write in this space Start Halfway End point point point

Ans:

[3]

The pie chart below represents the number of marbles of four different colours in a box. There were 135 more green marbles than red marbles.

Do not write in this space



- (a) What percentage of the marbles in the box were green in colour?
- (b) All the marbles in the box were placed in 48 bags. Each bag contained either 8 or 14 marbles. How many of the bags contained 14 marbles?

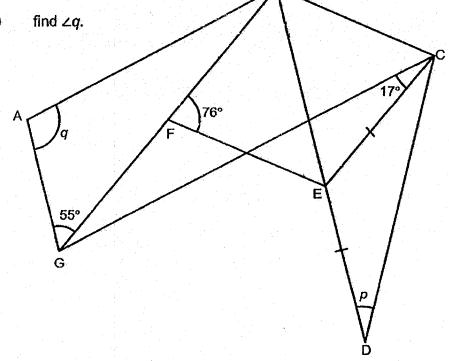
[1	J	
	[1	[1]

In the figure, ABCG is a trapezium and BCEF is a rhombus. Lines BED and BFG are straight lines. Given that AB // GC, EC = ED, \angle BFE = 76°, \angle GCE = 17° and \angle AGB = 55°, 12

Do not write in this space

(a) find $\angle p$.

(b)



Ans: (a)

(b)

[2]

13	Tina had some 20¢, 50¢ and \$1 coins with a total value of \$300.60.
	40% of the coins were 20¢ coins and $\frac{1}{8}$ of the remaining coins were
	\$1 coins.

Do not write in this space

- (a) What is the ratio of the number of 20¢ coins to the number of 50¢ coins to the number of \$1 coins? Express your answer in the simplest form.
- (b) How many coins did Tina have altogether?

Ans: (a)	 	 [2]	
		1	

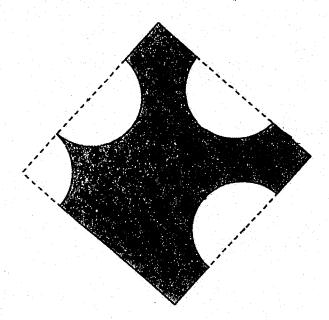
(b				(य)
ĮΝ	''	1.5	1000	 [∨]

Dom had a square piece of paper with an area of 64 cm². He cut out one quarter circle and three identical semicircles from it as shown below. The quarter circle had the same radius as each semicircle.

Do not write in this space

- (a) What is the radius of the quarter circle?
- (b) What is the perimeter of the remaining piece of paper?

(Take $\pi = 3.14$)



Amie (n)	\		[2]
Ans: (a)	;	 	[2

15	John uses triangles and circles to form figures that follow a pa	attern as
	shown below.	

Do not write in this space











Figure 3

Figure 4

The table shows the number of triangles and circles for the first four (a) figures. Complete the table for Figure 5.

Figure Number	1	2	3	4	5
Number of triangles	2	3	4	5	
Number of circles	6	8	9	11	
Total number of triangles and circles	8	11	13	16	

[1]

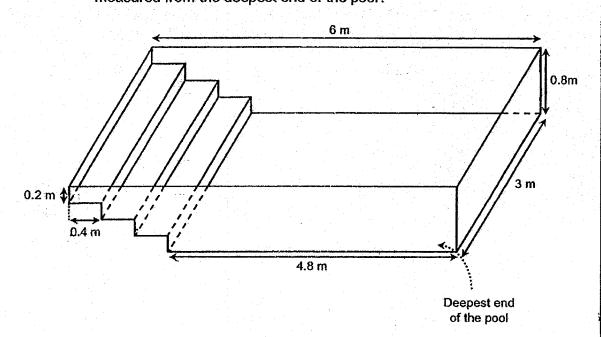
- (b) A figure in the pattern has a total of 51 triangles and circles. What is the Figure Number?
- (c) How many circles did John use for Figure 115?

Ans: (b)	Figure	[2]	Γ
(c)		[2]	

The figure below shows an empty wading pool with some steps at one side of the pool. Each step measures 0.2 m in height and 0.4 m in length.

Mr Hank wants to fill the pool with water using a hose that allows water to flow at a rate of 1.395 m³ per hour.

How long will it take Mr Hank to fill the pool with water to a depth of 0.7 m measured from the deepest end of the pool?



Do not write in this space

Ans: _____[4] L

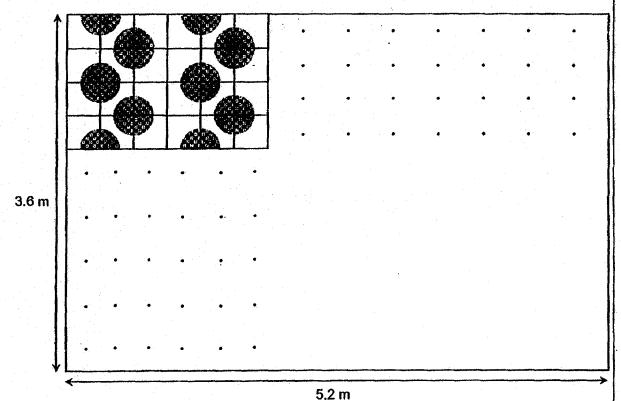
17 Two square tiles of equal sides are shown below. Some parts of the tiles are painted in the shape of identical quarter circles ().

Do not write in this space

20 cm



A floor is laid with the tiles that follow a pattern as shown below. The floor measures 5.2 m in length and 3.6 m in breadth and is completely covered with the tiles.



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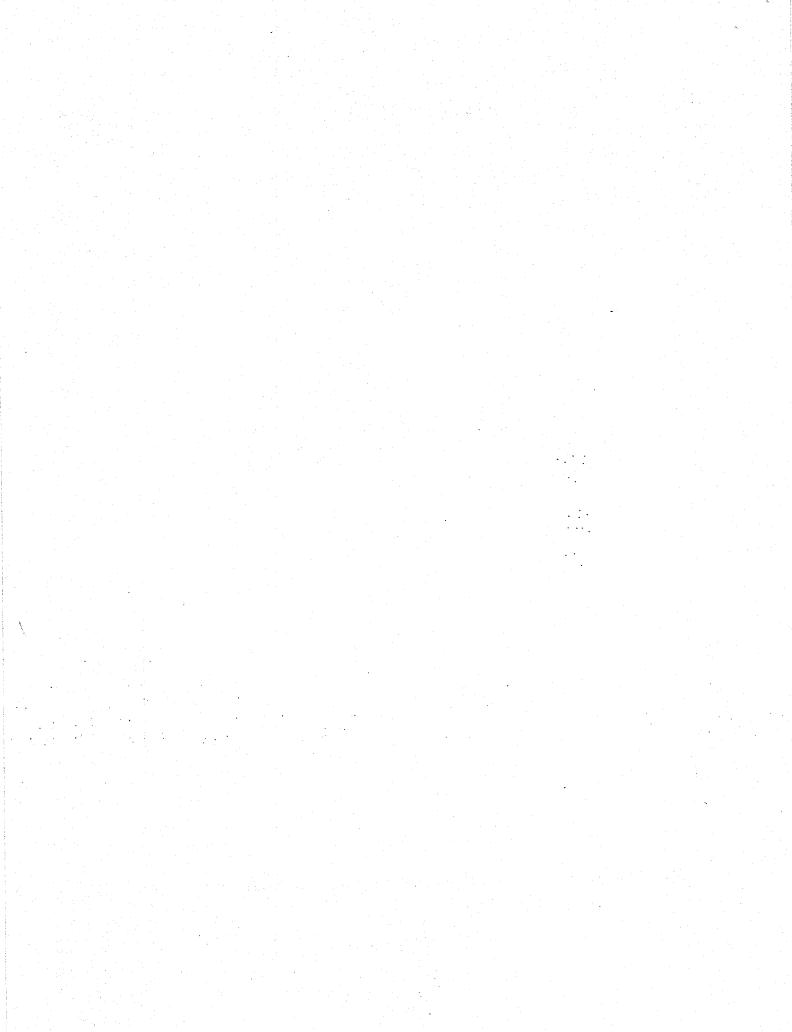
Find the area of the floor that is covered by the painted parts of the tiles.

 $(\text{Take } \pi = \frac{22}{7})$

(You may use the additional working space on the next page if necessary)

			-
Ans:		[4	
u 13.	the state of the s	יין	J

Sotters: Mrs Elaine Chue, Mrs Irene Tan, Mr Jenfry Tseng, Mrs Ling Lee Ching and Mr Yip Yew Fei	(Additional working space for Question 17)		Do not write in this space
Setters: Mrs Elaino Chua, Mrs Irene Tan, Mr Jenfry Tseng, Mrs Ling Lee Ching and Mr Yip Yew Fei			
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Setters: Mrs Elaine Chua, Mrs Irene Tan, Mr Jenfry Tseng, Mrs Ling Lee Ching and Mr Yip Yew Fei			
Mrs Elaine Unua, Mrs Irene Tan, Mr Jentry Tserig, Mrs Ling Lee Uning and Mr Yip Yew Fei	Setters:	.:	
그는 물이 이 사람이 되었다. 이번 사는 사람들은 이번 수 있다는 생활을 하는데 이번 수 있다.	Mrs Elaine Unua, Mrs Irene Tan, Mr Jentry Tserig, Mrs Ling Lee Ching and Mr Yip Yew Fe	Ħ	•



SCHOOL: HENRY PARK PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT: MATH

TERM : 2019 PRELIM

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6 -	Q7	Q8	Q9	Q10
1	2	4	3	4	1	1	4	3	1

Q 11	Q12	Q13	Q14	Q15
3	2	4	3	3

PAPER 1 BOOKLET B

Q16)	110.49
Q17)	5.08
Q18)	$63 + \frac{28 - 18}{5} = 63 + \frac{10}{5}$
	= 63 + 2 = 65
Q19)	37.49
Q20)	$70 \div 5 = 14$
Q21)	1 and 7
Q22)	a)EB and DC
	b)FA and AB
Q23)	a)13h
	b)3.40 p.m.
Q24)	$155^{\circ} - 69^{\circ} = 86^{\circ}$
Q25)	$\frac{1}{2} \times 6cm \times 45cm = 270cm^2$
Q26)	$\frac{5}{8}T = 4 + 12 + 15 + 9 = 40$
	$\frac{3}{8}T = 40 \div 5 \times 3 = 24 tickets$
Q27)	$\frac{2}{3}T = 2400ml$
	$T = 2400ml \div 2 \times 3 = 3600ml \rightarrow 3600cm^3$

	$\frac{\frac{3600cm^3}{120cm^2}}{120cm^2} = 30cm$
Q28)	85°
Q29)	First hour $\rightarrow \$36 - \$12 = \$24$ \\$24 \div \\$4 = 6 6 \times \frac{1}{2} = 3h
	3h + 1h = 4h $7.30 + 4 = 11.30$
Q30)	126cm ²

PAPER 2

Q1)	a)22 b)0.4m
Q2)	300 x 2 = 600 600 - 399 = 201
Q3)	180° - 47° = 133° 180° - 47° - 47° = 86° 180° - 86° - 36° = 58°
Q4)	$\frac{90 - 22 = 68}{\frac{180 - 68}{2}} = 56$
Q5)	
	B C

í		
	Q6)	20u – 9u = 11u
		11u = 66
		$1u = 66 \div 11 = 6$
		9u + 12u + 20u = 41u
		$41u = 6 \times 41 = 246$
	Q7)	a)(3y + 3y + 12)cm
		= (6y +12)cm
		b)(6y +12)cm = 120cm
		6y cm + 12cm = 120cm
		(6y)cm = 120cm - 12cm = 108cm
		1y = 108cm ÷ 6 = 18cm
ŀ		
-	Q8)	650 - 50 = 600
	QU)	600 ÷ 8% = 7500
-		
		7500 + 500 = 8000
-	<u> </u>	
	Q9)	$u+p=117\to E1$
		$u - 25 + 1\frac{3}{5}p = 137 \to E2$
		u = 117 - p
		$u = 137 - 1\frac{3}{5}p + 25$
		$117 - p = 137 - 1\frac{3}{5}p + 25$
	**	$\frac{3}{5}p = \frac{45 \times 5}{3} = 75$
		u = 117 - 75 = 42 pencils
	Q10)	2500 x 2 = 5000
-		5000 ÷ 200 = 25min
		25min after 11.50 a.m. is 12.15 p.m.
1	Q11)	a)100% - 25% - 15% - 20% = 40%
		b)15% + 135 →40%
		25% → 135
		1% →135 ÷ 25 = 5.4
		81 + 216 + 135 + 108 = 540
		Assume all as 8 marbles
		8 x 48 = 384
		ego de la final de la granda de la companya de la granda de la companya de la companya de la companya de la fi
		540 - 384 = 156
		156 ÷ 6 = 26 bags
	Q12)	a) $(180^{\circ} - 76^{\circ}) \div 2 = 52^{\circ}$
		180° – 52° = 128°
		$(180^{\circ} - 128^{\circ}) \div 2 = 26^{\circ}$
		b)180°- 59° = 121°
L	<u> </u>	

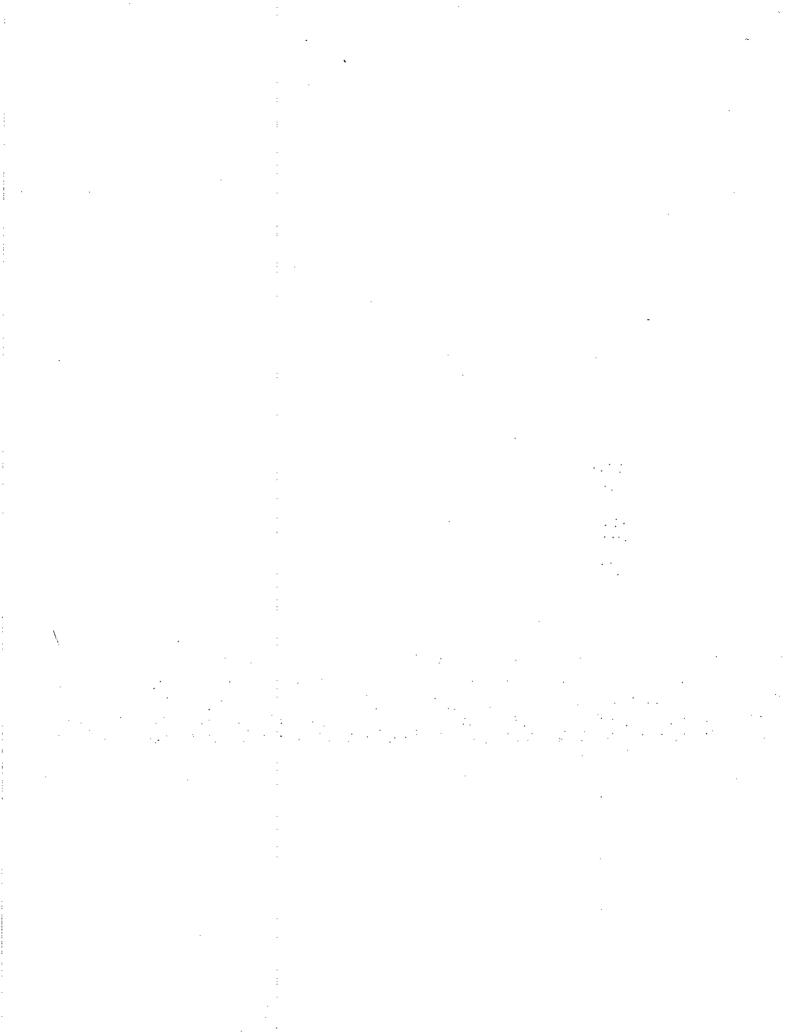
	121° – 52° – 52° = 17°	
	180° – 17° – 55° = 108°	
Q13)	a)16:21:3	
	b)3.2u + 10.5u + 3u = 16.7u	
	16.7u = \$300.60	
	1u = \$300.60 ÷ \$16.7u = 18	
	16u + 21u + 3u = 40u	
	40u = 40 x 18 = 720 coins	
	40 40 X 10 120 001110	
Q14)	$a)\sqrt{64cm^2} = 8cm$	
Q 1-7)	8cm ÷ 4 = 2cm	
		L 20m L 40m = 160m
	b)2cm + 2cm + 2cm + 2cm + 2cm Arc of 1 quarter circle = $\frac{1}{4}$ x π x	
	3.14cm x 7 = 21.98cm	1 u - 74 x 3.14 x 4cm - 3.14cm
	21.98cm + 16cm = 37.98cm	
	21.90cm + 10cm - 37.90cm	
Q15)	a) 6, 12, 8	
Q (5)	b)18	
	c)3 x 58 + 13 = 177	
Q16)	6m x 3m x 0.7m =12.6m ³	
	$0.4 \text{m} \times 0.2 \text{m} \times 3 \text{m} = 0.24 \text{m}^3$	
	$0.24\text{m}^3 \times 6 = 1.44\text{m}^3$	
	12.6m³ - 1.44m³ = 11.16m³	
	11.16m³ ÷ 1.395m³ = 8h	
Q17)	$520 \div 20 = 26$.	
	$26 \div 3 = 8R2$	
	$8.75 \times \frac{22}{7} \times 14 \times 14 = 5390$	
	$360 \div 20 = 18$	
	$18 \times 5390 = 97020cm^2$	



Maha Bodhi School 2019 Preliminary Examination Primary 6 Mathematics Paper 1 (Booklet A)

Na	me : ()
Cla	ss : Primary 6
Da	te : 27 August 2019
Tot	al duration for Booklets A and B: 1 hour
<u>INS</u>	STRUCTIONS TO CANDIDATES:
1.	Write your Index No. in the boxes at the top right hand corner.
2.	Do not turn over this page until you are told to do so.
3.	Follow all instructions carefully.
4.	Answer all questions.
5.	Shade your answers in the Optical Answer Sheet (OAS) provided.

6. The use of calculators is **NOT** allowed.

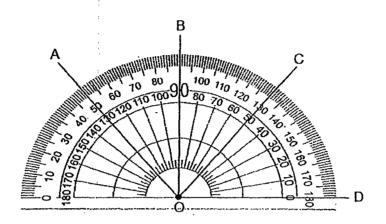


Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.

(20 marks)

- 1. In which one of the following numbers does the digit 6 have the smallest value?
 - (1) 76 859
 - (2) 68 597
 - (3) 597 684
 - (4) 498 765
- 2. A tailor had 5 m of cloth. He used $\frac{3}{8}$ of it. How much cloth had he left?
 - (1) $4\frac{5}{8}$ m
 - (2) $4\frac{3}{8}$ m
 - (3) $3\frac{1}{8}$ m
 - (4) $1\frac{7}{8}$ m
- 3. The length of a double-decker bus in Singapore is about _____
 - (1) 11 cm
 - (2) 11 m
 - (3) 110 cm
 - (4) 110 m

4. Study the straight lines on the protractor below. Which two angles are equal?



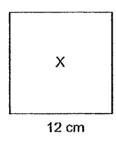
- (1) $\angle AOC = \angle BOD$
- (2) ∠AOB = ∠BOC
- (3) $\angle BOC = \angle COD$
- (4) $\angle AOB = \angle COD$
- 5. Find the average of the following numbers.

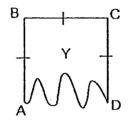
r			
10	18	26	30
L			

- (1) 18
- (2) 21
- (3) 26
- (4) 28
- 6. A machine packs 25 apples into a box in 1 minute. At the same rate, how many apples can be packed in 1 hour 40 minutes?
 - (1) 1000
 - (2) 1500
 - (3) 2500
 - (4) 3500

7. A string was used to form Square X. The string was then used to form Figure Y with three straight sides and one curved side.

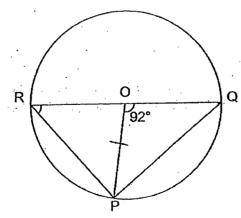
Square X has the same perimeter as Figure Y with AB = BC = CD = 10 cm. Find the length of the curved side AD.





- (1) 10 cm
- (2) 12 cm
- (3) 18 cm
- (4) 30 cm
- 8. In the diagram below, O is the centre of the circle and RQ is its diameter. RPQ is a triangle and P, Q and R are points on the circumference of the circle.

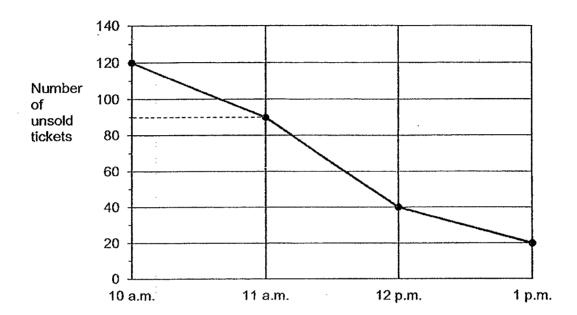
 \angle QOP = 92°, find \angle ORP.



- (1) 41°
- (2) 44°
- (3) 46°
- (4) 88°

9. The ticketing office at a cinema opens at 10 a.m.

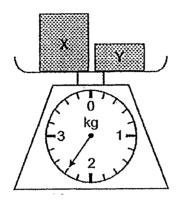
The line graph below shows the number of unsold tickets at the ticketing office after three hours.

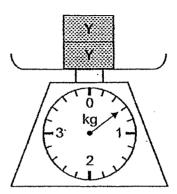


How many tickets were sold in the first hour?

- (1) 120
- (2) 90
- (3) 30
- (4) 20
- 10. At 11.00 a.m., a car left Town X for Town Y travelling at a speed of 80 km/h. At the same time, another car left Town Y for Town X travelling at a speed of 100 km/h. They did not change their speeds throughout. The distance between the two towns was 540 km. At what time did the cars pass each other?
 - (1) 1 p.m.
 - (2) 2 p.m.
 - (3) 3 p.m.
 - (4) 4 p.m.

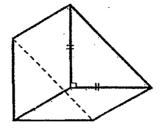
11. What is the mass of Box X?



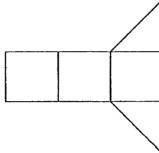


- (1) 0.3 kg
- (2) 1.8 kg
- (3) 1.9 kg
- (4) 2.1 kg
- Plank A is 1.5 m longer than Plank B.Plank A is 60 cm longer than Plank C. The total length of the three planks is 12.6 m.Find the length of Plank B.
 - (1) 3.4 m
 - (2) 3.5 m
 - (3) 4.3 m
 - (4) 4.9 m
- 13. 25% of the books in a library are Malay books. 40% of the remainder are Chinese books. The rest are English books. What percentage of the books are English books?
 - (1) 30%
 - (2) 35%
 - (3) 45%
 - (4) 55%

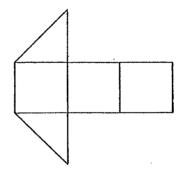
14. Which one of the following can be the net of the solid shown below?



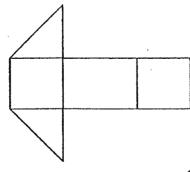
(1)



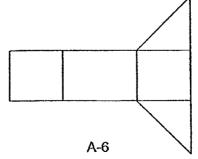
(2)



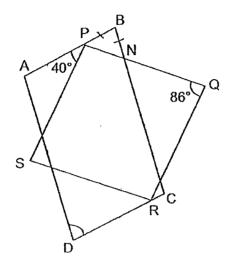
(3)



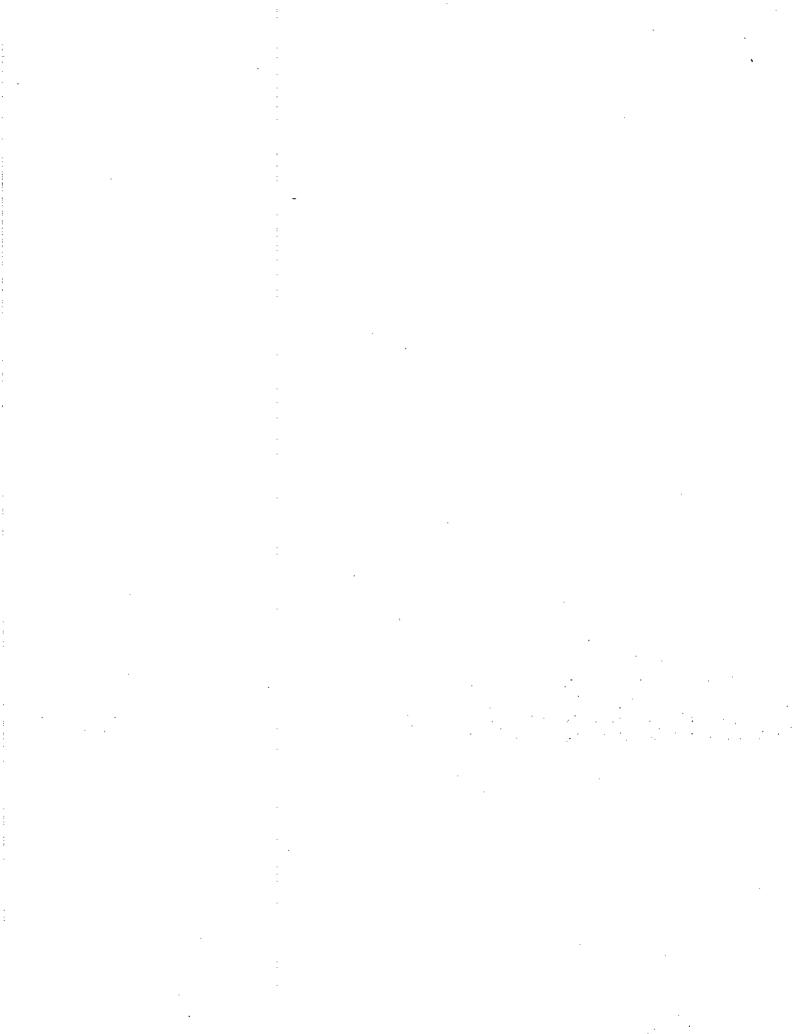
(4.)



15. In the diagram below, ABCD is a parallelogram and PQRS is a rhombus. PB = BN, \angle APS = 40° and \angle PQR = 86°. Find \angle ADC.



- (1) 72°
- (2) 88°
- (3) 92°
- (4) 94°



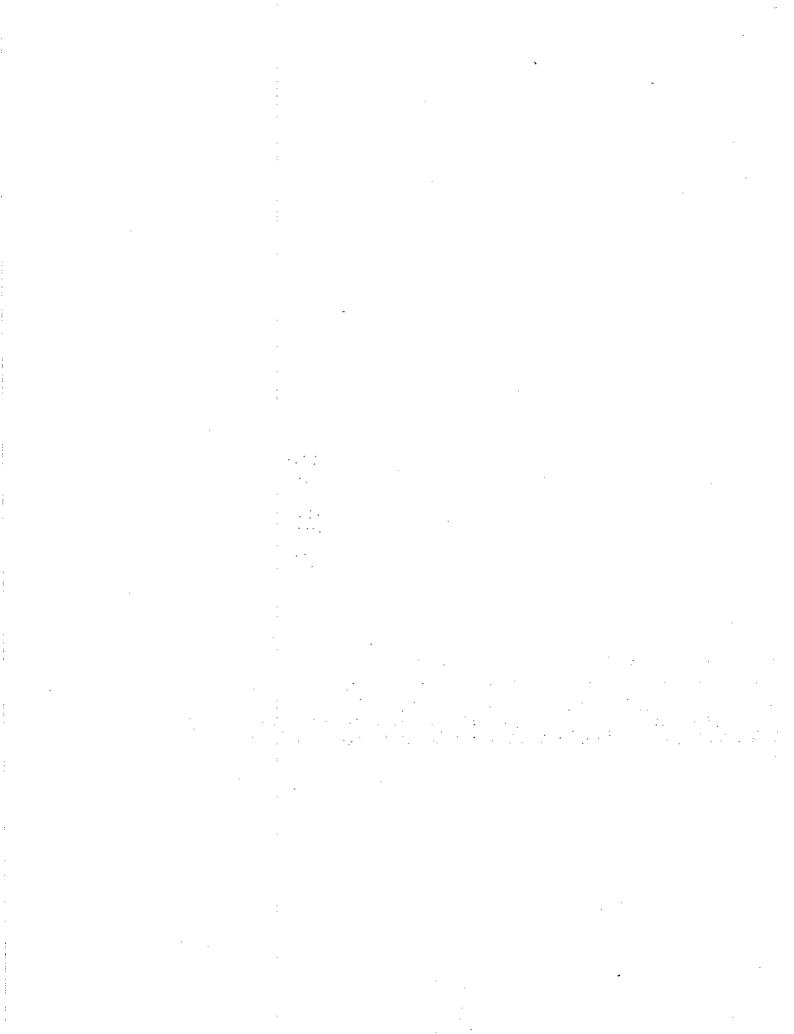


Maha Bodhi School 2019 Preliminary Examination Primary 6 Mathematics Paper 1 (Booklet B)

Name :	()	Marks:	25
Class : Primary 6				
Date: 27 August 2019				
Total Duration for Booklets A and	B: 1 hc	our		

INSTRUCTIONS TO CANDIDATES:

- 1. Write your Index No. in the boxes at the top right hand corner.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Write all your answers in this booklet.
- 6. The use of calculators is **NOT** allowed.



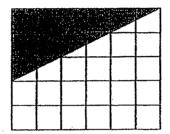
Questions 16 to 20 carry 1 mark each. Write your answers in the spaces	provided.
For questions which require units, give your answers in the units stated.	(5 marks)

16. Write 17 hundreds in numerals.

Ans:	

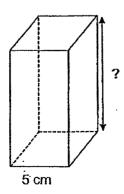
17. The rectangle shown below is made up of 30 identical squares.

What fraction of the rectangle is shaded? Leave your answer in the simplest form.



Ans:	

18. A solid cuboid has a square base of side 5 cm. It has a volume of 300 cm³. What is its height?

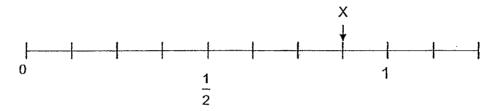


Ans:	 cm

19.	The total mass	nass of five objec s of four of the obj ass of the fifth obj	ects is 10.8 kg.		
		:			
	•	· .			
		•			
				Ans:	kg
		:			
20.	A duck has a r	nass of 3y kg.			
	A kitten is 3 kg	heavier than the	duck.		
	Find the total r	nass of the two a	nimals in terms o	of y.	
		•			
		•			
		·		Ans:	kg
. •					·

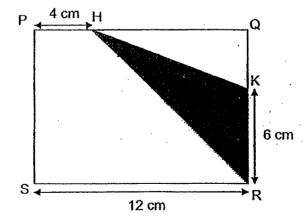
Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

21. In the number line below, what is the value of X? Give your answer as a decimal.



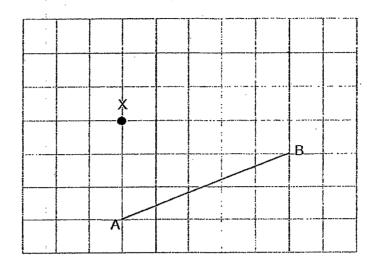
Ans: _____

In the figure below, PQRS is a rectangle.H and K are points on PQ and QR respectively such that PH = 4 cm and KR = 6 cm.Find the area of the shaded triangle HKR.



Ans: _____cm²

23. In the grid below, draw a line parallel to AB and passing through X.



24. Apples are sold at four for \$5 and pears are sold at six for \$8.
Kishan bought the same number of apples and pears.
What is the least amount of money he could have spent?



Ans:	\$	

25. Sulaiman and Susan brought different amounts of money to school. Sulaiman spent $\frac{1}{2}$ of his money and Susan spent $\frac{1}{4}$ of hers at recess.

Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick (\checkmark) to indicate your answer.

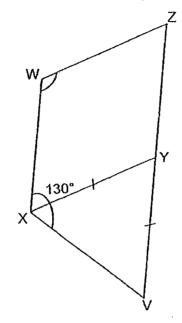
Statement	True	False	Not possible to tell
Sulaiman spent more money than Susan.			
Sulaiman had a larger fraction of his money left than Susan.			

26. Haron and Raj had an equal number of stamps at first. After Haron sold 26 stamps and Raj sold 66 stamps, the ratio of the number of stamps Haron had left to the number of stamps Raj had left was 5:1. How many stamps did Raj have at first?

Ans: _____stamps

27. In the diagram below, WXYZ is a parallelogram and ZV is a straight line.

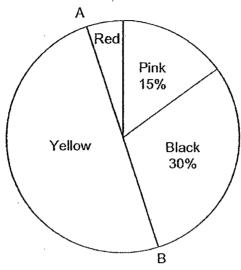
Given that XY = VY and \angle WXV = 130°, find \angle ZWX.



Ans: _______

28. Pupils in a class were asked to choose a colour for their class T-shirt.

Their responses are shown in the pie-chart below. AB is a straight line.



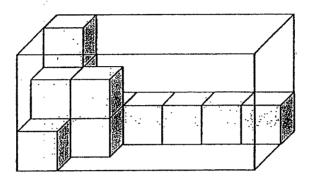
What fraction of the pupils chose red for their class T-shirt?

Ans:	 	

29. Mrs Tan has (2n + 16) m of ribbon.She gave away 13 m. Then she cut the remaining ribbon into 3 equal pieces.What is the length of each piece of ribbon?

Ans: m

30. There are some identical cubes in a box as shown below. How many <u>more</u> cubes are needed to fill up the box?



Ans:



Maha Bodhi School 2019 Preliminary Examination Primary 6 Mathematics Paper 2

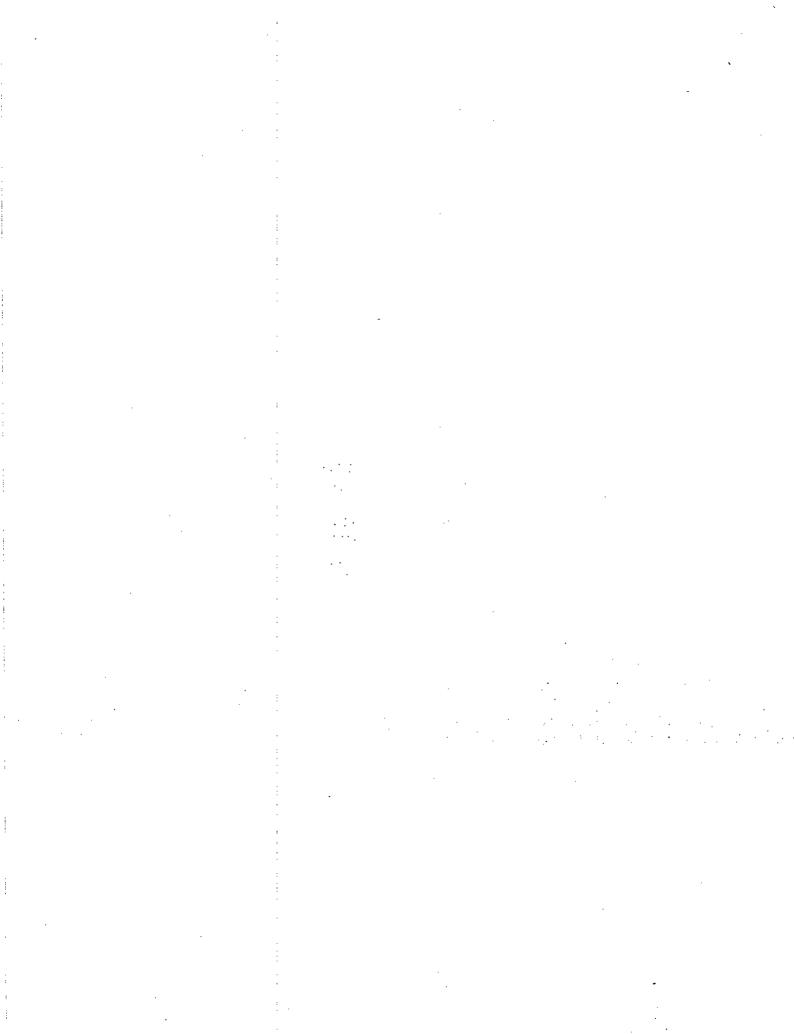
Name :	. ()	
Class : Primary 6			
Date : 27 August 2019			
Duration: 1 h 30 min			

INSTRUCTIONS TO CANDIDATES:

- 1. Write your Index No. in the boxes at the top right hand corner.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Write your answers in this booklet.
- 6. The use of an approved calculator is expected, where appropriate.

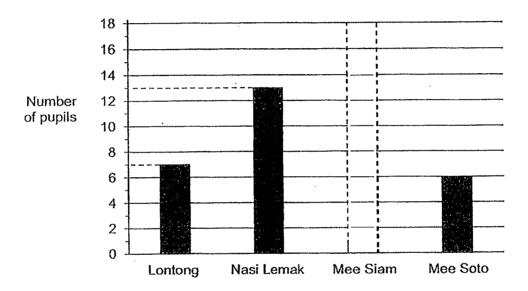
Paper	Booklet	Marks Obtained	Max Marks	
4	Α		20	
[· . · · · · · · · · · · · · · · · · ·	В		25	
2	-		55	
Total			100	

Parent's signature:	
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Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

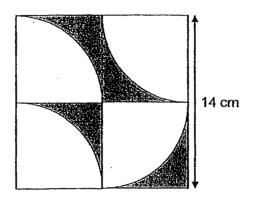
 A class of 40 pupils was asked to name their favourite food. Each pupil chose one type of food. The bar for the number of pupils who chose Mee Siam as their favourite food has not been drawn.



Draw the bar for the number of pupils who chose Mee Siam as their favourite food in the graph above.

2.	Each figure belo Based on the pa Figure 101?	Each figure below is made up of identical lines. The first 4 figures are shown below. Based on the pattern observed in Figures 1 to 4, how many lines are needed to form Figure 101?				
					\sum	
	Figure 1	Figure 2	Figure 3		Figure 4	
		· :				
	:					
	:					
	:					
			Α	ns:		lines
			·			
3.	Three classes col	llected papers for re	ecycling. 6A collecte	d 4 <i>x</i> kg, wl	nich is half o	f what
	6B collected. 6B	collected 5 kg more	e than 6C. How many	y kg of pap	ers did they	collect
	altogether?				:	
	Give your answer	in terms of x in the	e simplest form.			
				:		
			An	s:		_ kg
			2			14

4. The figure below shows a square of side 14 cm and 4 identical quarter circles. Find the area of the shaded parts. Take $\pi = \frac{22}{7}$

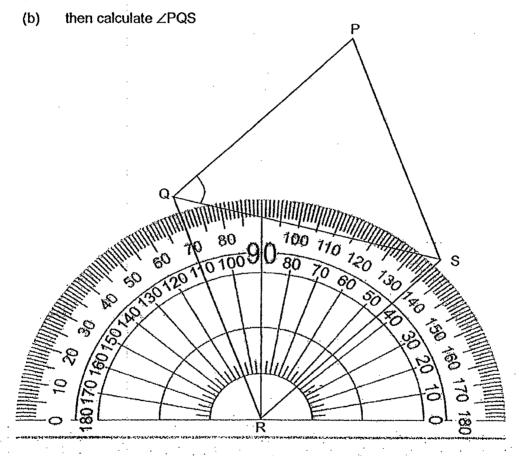


5. At a school event, 15 pupils were standing in a straight line at equal distances from each other. The distance between the third and tenth pupil was 12.11 m. What was the distance between the first and last pupil?

Ans: _____ m

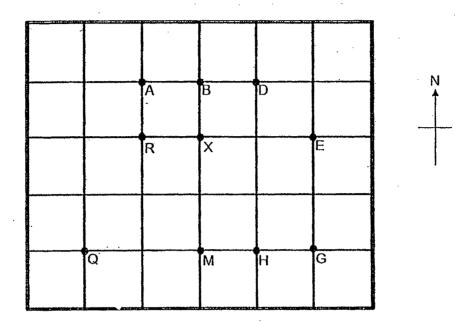
For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

- 6. PQRS is a rhombus.
 - (a) Using the protractor given, find ∠QRS



Ans: (a)		[1]	
----------	--	---	---	---	--

7. Some points are marked on the square grid shown in the diagram below.



(a) (i) Point X is west of Point		
(ii) Point X is north-east of Point		

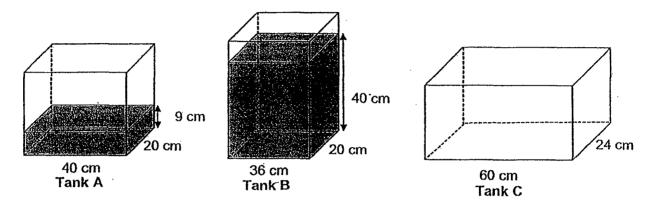
- (b) Sally was standing at Point X and she was facing Point D.She then turned in an anti-clockwise direction until she was facing Point G.How many complete right angles did she turn?
- (c) REGQ and REGM are trapeziums with a pair of parallel sides.Name 1 other such trapezium with RB as one of the parallel sides.

ns: (a) (i)	
(ii)	[1]
(b)	[1]
(c) Trapezium	[1]

8. Jasmine and Kaixin started cycling at the same time along a 5.2 km track. Both of them did not change their speeds from start to finish. Jasmine cycled at 400 m/min. When she reached the end of the track, Kaixin was 780 m behind her. What was Kaixin's cycling speed in m/min?

Ans: [3]

9. In the figures below, Tank A and Tank B are partially filled with water. All the water from both Tank A and Tank B is poured into Tank C. What is the height of water in Tank C?



Ans: _____[4]

10. Two groups of pupils sold handicrafts for charity. Card holders are sold at \$15 each and photo frames are sold at \$8 each. The table below shows the items sold by Group A.

Item	Number of items sold	Cost per item
Card holders	9	\$15
Photo frames	. 12	\$8

- (a) What was the total amount of money collected by Group A?
- (b) Group B sold as many handicrafts as Group A but collected an additional amount that is more than \$50.

What could possibly be the number of card holders and photo frames sold by Group B?

Ans: (a)	[2]
(b) Card holders:	
Photo frames:	[2]

11. Three boxes, A, B and C, contain some marbles. Box C contains 272 marbles. Box A contains $\frac{3}{4}$ of the total number of marbles in Boxes B and C. The ratio of the number of marbles in Box B to the number of marbles in Box C is 1:2. How many marbles are there altogether in Boxes A and B?

Ans: _____ [3]

12. Last year, the ratio of the number of men to the number of women who signed up for a marathon was 5: 4. This year, the number of men increased by 30% and the number of women decreased by 50%. A total of 4675 men and women signed up for the marathon this year. What is the difference between the total number of people who signed up for the marathon in the two years?

13. Ali, Banu, Caixuan and Dave shared a bag of beads.

Ali had $\frac{1}{2}$ as many beads as Banu.

The total number of beads Ali and Banu had was $\frac{3}{5}$ the number of beads Caixuan had.

Dave had $\frac{2}{5}$ the total number of beads the four children had.

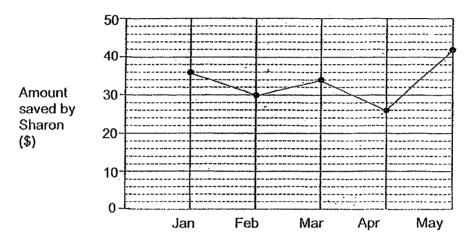
Dave had 52 beads more than Ali.

- (a) What fraction of the beads did Banu have?
- (b) How many beads did the children have altogether?

Ans: (a)	[2]
	=

It has	s an area of 2x units ² .	
	[
	L	
	· · · · · · · · · · · · · · · · · · ·	
A qua	adrilateral with 2 lines of symmetry is formed when 2 suc her as shown below.	ch unit shapes are joined
	• • • • • • • • • • • •	
Usino	g the smallest number of unit shapes,	
00111	g and contained named of anic chapter,	
(a)	(i) form a square.	[1]
	(ii) find the area of the square in terms of x.	
	L	
		•
	•	
(b)	(i) form a quadrilateral that has only one line of symm	netry. [1]
	(ii) name the type of quadrilateral formed.	
	(ii) hamo ino type or quadinatoral formout	
	• • • • • • • • • • •	
	Ans: (a)(i	i) [1
	(b)(i	ii) [1
	/υ/("/ Ł'

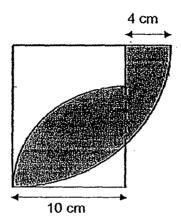
15. Sharon receives \$50 from her father each month as pocket money. She spends some money and saves the rest. The line graph below shows the amount of pocket money she saved over a period of 5 months.



- (a) What is her total savings from January to May?
- (b) In which month did she spend the most?
- (c) Sharon wants to buy a bicycle which costs \$230. How many more months does she need to save after May so that she can buy the bicycle as soon as possible?

16. The figure below is formed by 2 quadrants and a rectangle overlapping one another.The radius of the smaller quadrant is 10 cm.Find the area of the shaded part of the figure.

Take $\pi = 3.14$



Ans: _____[5]

17.	A man bought $\frac{3}{5}$ as many cartons of mangoes as papa	ayas.
-----	---	-------

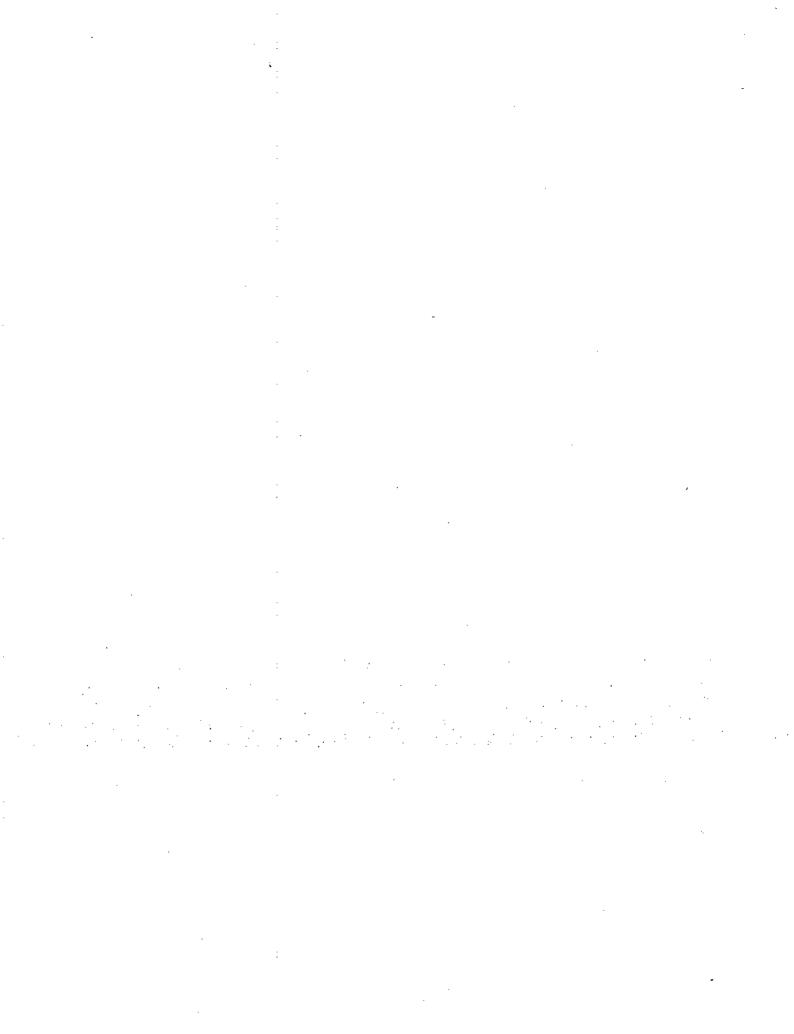
He paid \$540 for the mangoes and papayas.

The total cost of the mangoes was twice that of the papayas.

Each carton of mangoes cost \$28 more than each carton of papayas.

- (a) How much did he pay for the mangoes?
- (b) How many cartons of papayas did he buy?

Ans	s: (a)	 [2]
	(b)	 [3]
Remember to check your work! ~ End of Paper ~		/5



SCHOOL: MAHA BODHI PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT: MATH

TERM : 2019 PRELIM

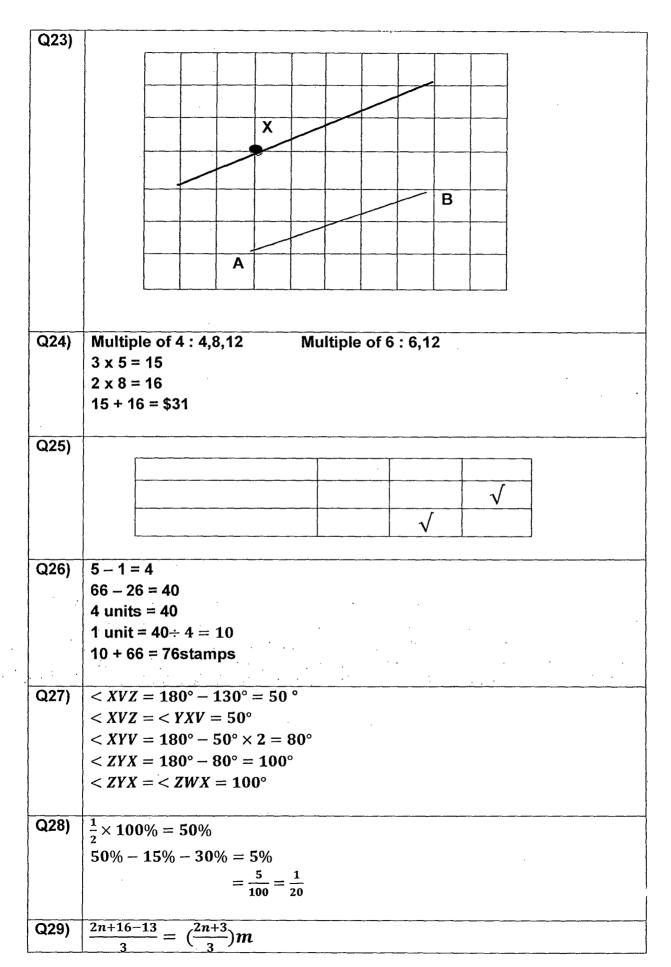
PAPER 1 BOOKLET A

Q 1	Q2	Q3	-	Q5	Q6	Q7	Q8	Q9	Q10
4	3	2	2	2	3	3	3	3	2

Q 11	Q12 Q13 Q14		Q14	Q15	
4	1	. 3.	4	2	

PAPER 1 BOOKLET B

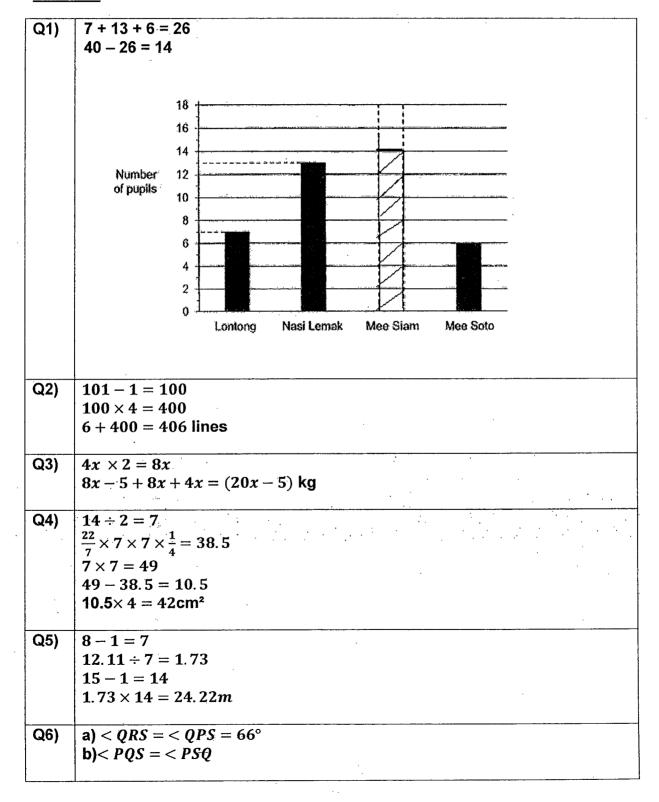
Q16)	1700
Q17)	6 x3 = 18
	$\left \frac{1}{2}\times 18=9\right $
	$\frac{9}{30} = \frac{3}{10}$
Q18)	5 x 5 = 25
	300 ÷ 25 = 12
Q19)	2.4 x 5 = 12
	12 - 10.8 = 1.2
Q20)	3y + 3y + 3 = (6y + 3)
Q21)	$\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$ $\frac{1}{8} = \frac{125}{1000} = 0.125$
	$= 0.125 \times 3 = 0.375$
	= 0.5 + 0.375 = 0.875
Q22)	12 - 4 = 8
	$\frac{1}{2} \times 8 \times 6 = 24cm^2$



_ _

Q30)	$6 \times 3 \times 3 = 54$	ı
	54 - 13 = 41	

PAPER 2



	$=\frac{180^{\circ}-66^{\circ}}{2}=57^{\circ}$
	2
Q7)	a i)E
	ii)Q
	b)3
	c)Trapezium RBEM
Q8)	$5200m \div 400m/min = 13min$
	5200m - 780m = 4420m
	$4420m \div 13min = 340m/min$
Q9)	$40 \times 20 \times 9 = 2700$
	$36 \times 20 \times 40 = 28800$
	28800 + 7200 = 36000
	$36000 \div 60 \div 24 = 25 \text{ cm}$
Q10)	a)9 x 15 = 135
	12 x 8 = 96
	96 + 135 = 231
	b)Multiple of 7 : 7,14,21,28,35,42,49,56
	15 – 8 = 7
	56÷ 7 = 8
•	8 + 9 = 17 card holders
	12 + 9 = 21
	21 – 17 = 4 photo frames
Q11)	8 units = 272
, ,	1 unit = 272÷ 8 = 34
	9 units = 34 x 9 = 306
	4 units = 34 x 4 = 136
(136 + 306 = 442
Q12)	17 units = 4675
	18 units = $\frac{4675}{17} \times 18 = 4950$
	4950 – 4675 = 275

042	
Q13)	a)A : B : C
	1 : 2 \rightarrow 3 \rightarrow $\frac{3}{5}$ 1 : 2 : 5 \rightarrow 8 \rightarrow $\frac{3}{5}$
	$1 \rightarrow \frac{1}{5}$
	47
	17 : B : C : D
	1 : 2 : 5 : $\frac{8}{3} \times 2$
	$(1:2:5:\frac{16}{3}) \times 3$
	3: 6: 15: 16
	$\frac{6}{3+6+15+16} = \frac{6}{40}$
	b)A : B : C
	b)A : B : C 1 : 2 x3
	3:6 9:15
	Dave : All 4
	2 : 5 x8 16 : 40
	13 units = 52
	40 units = $\frac{52}{13} \times 40 = 160$
	13
Q14)	a i)
	* ` , , , , ,
	ii) $2x \times 6 = 12x$ units ²
	11/2X × 0 = 12X units
	b i)
	ii)Trapezium
	η, παρσειαπι

Q15)	a)36 + 30 + 34 + 26 + 42 = 168 b)April c)230 – 168 = \$62
Q16)	10 + 4 = 14
	14 x 10 = 140
	$3.14 \times 10 \times 10 \times \frac{1}{4} = 78.5$
	140 - 78.5 = 61.5
	$3.14 \times 14 \times \frac{1}{4} = 153.86$
	153.86 – 61.5 = 92.36cm ²
Q17)	a) $540 \div 3 = 180$
	$180 \times 2 = \$360$
	$(b)180 \div 5 = 36$
	$360 \div 3 = 120$
	120 - 36 = 84
	$84 \div 28 = 3$
	$3 \times 5 = 15$

.

METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



PRELIMINARY EXAMINATION 2019 PRIMARY 6 MATHEMATICS

PAPER 1 BOOKLET A

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so. Follow all instructions carefully.

A ------

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

The use of calculators is **NOT** allowed.

Name:	()	
Class:	Primary 6		
Date:	20 August 2019		

This booklet consists of **8** printed pages including this page.

20

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

.4		es the dig		- ~ 4 4	4. 1	• ^
7	10100100	AA THA AIA	3 P 'J II S J		CIANA	705
1.	VV:12-21 ER2	M22 11162 12161	11 / 11 1	741	21/11/11	14 23 7

- (1) 2 ones
- (2) 2 tenths
- (3) 2 hundredths
- (4) 2 thousandths

2. What is the value of 91 000 ÷ 700?

- (1) 13
- (2) 130
- (3) 1300
- (4) 13 000

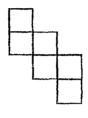
3. Which of the following is the largest in value?

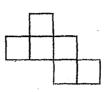
- (1) 0.035
- (2) 0.305
- (3) 0.530
- (4) 0.053

4. The figure below shows a cube.



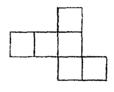
Which one of the following is not a net of the cube?

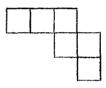




(1)





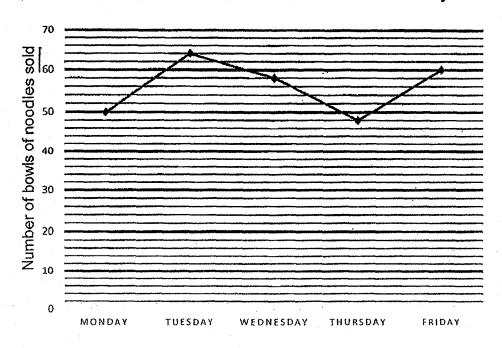


(3)

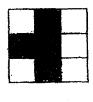
(4)

3

The graph shows the number of bowls of noodles sold at a stall over 5 days.



- 5. How many bowls of noodles were sold from Monday to Wednesday altogether?
 - (1) 170
 - (2) 171
 - (3) 172
 - (4) 173
- 6. Each figure below is made up of nine squares. Four squares in each figure are shaded. Which one of the following figures is symmetric?







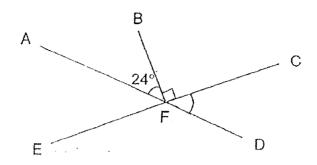
(1)

(2)

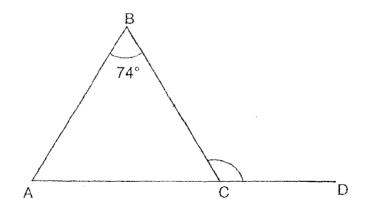
(3)

(4)

7. AFD and CFE are straight lines. Find ∠CFD.



- (1) 24°
- (2) 66°
- (3) 74°
- (4) 76°
- 8. ABC is an isosceles triangle with AB = BC.ACD is a straight line and ∠ABC = 74°. Find ∠BCD.



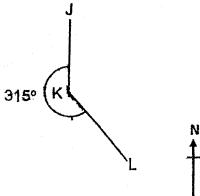
- (1) 53°
- (2) 74°
- (3) 106°
- (4) 127°

9. In the diagram, J, K and L are three points on the ground. Point J is north of point K and ∠JKL is 315°. In what direction is point L from point K?



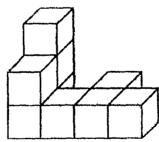


- (3) South-East
- (4) South-West



- 10. A typist can type 70 words in 2 minutes. At this rate, how many words can she type in 30 minutes?
 - (1) 140
 - (2) 210
 - (3) 1050
 - (4) 1400
- 11. A bank gives 2% interest per year. John deposits \$2000 in the bank. How much interest will he receive at the end of one year?
 - (1) \$400
 - (2) \$40
 - (3) \$0.40
 - (4) \$4

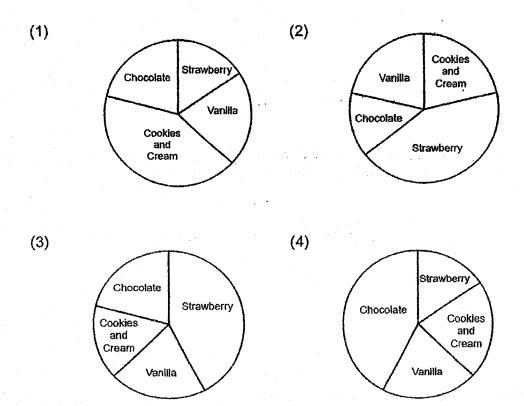
- Samy and Tom shared the total cost of a meal. Samy paid \$12 more than $\frac{2}{5}$ of the meal. Tom paid \$18. How much did the meal cost?
 - (1) \$15
 - (2) \$30
 - (3) \$50
 - (4) \$75
- 13. Selvi is *x* years old. Her father is 5 times as old as Selvi and 6 years older than Selvi's mother. How old is Selvi's mother?
 - (1) (5x-6) years old
 - (2) (5x 30) years old
 - (3) (5x + 6) years old
 - (4) (5x + 11) years old
- 14. The figure below shows 9 identical cubes which are glued together to form a solid.



The whole solid, including the base, is then painted red. How many cubes have three of their faces painted red?

- (1) 1
- (2) 2
- (3) 3
- (4) 4

15. Some pupils were surveyed on their favourite ice-cream flavours. The same number of pupils liked vanilla and chocolate. More pupils liked strawberry than cookies and cream. Which one of the following pie charts represents the distribution of pupils?



METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



PRELIMINARY EXAMINATION 2019 PRIMARY 6 MATHEMATICS

PAPER 1 BOOKLET B

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so. Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of calculators is **NOT** allowed.

Name:		()	
Class:	Primary 6.		
Date:	20 August 2019	Paper 1 Booklet A	/ 20
		Paper 1 Booklet B	/ 25
		Paper 2	/ 55
Parent's	Signature:	TOTAL	/ 100

This booklet consists of **8** printed pages including this page.

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		and the second s	**************************************	
6. Find the value of 0.1	4 × 60	·		
	and the second of the second			
		Ans:		
			•	
7. Express 2.35 as a m	nixed number in the s	simplest form.		
		Ans:		
		A115		
		· · · · · · · · · · · · · · · · · · ·		1
18. Mary mixed 6 cups of What fraction of the			rink.	
				11 1
		Ans:		

19 .	Edmund cycled for 50 minutes at a speed of 18 km/h.	How far did he
	cycle?	

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Ans: km

20. Find the value of $9f - \frac{11f}{2}$ when f = 4.

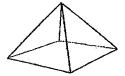
Ans: _____

(Co on to the most mane)

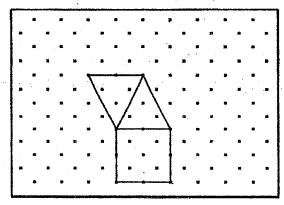
Questions **21** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

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21. The figure below shows a pyramid.



Complete the net of the pyramid in the space provided in the box.



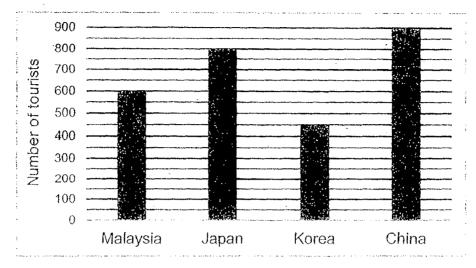
22. A total of 150 boys and girls took part in an Art competition. $\frac{1}{3}$ of the girls and $\frac{1}{6}$ of the boys were prize-winners. The number of boys and girls were not the same. Give your answer in the simplest form.

Each statement below is either true, false, or not possible to tell from the information given. For each statement, put a tick (\checkmark) in the correct column.

Statement	True	False	Not possible to tell
(a) There were twice as many boys as girls who were prize winners.			
(b) $\frac{1}{2}$ of the participants were prize winners.			

23. The bar graph shows the number of tourists in four different countries on a particular day.

Do not write in this space



Which country has $\frac{3}{4}$ as many tourists as Malaysia on that day?

Ans:		
	 	 _

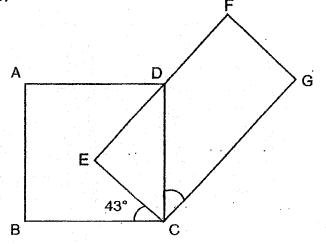
24. The table shows the number of hours spent on tuition by a group of 9 children in a day. What is their average number of hours spent on tuition each day? Give your answer in the simplest form.

Tuition hour per day	0	2	3	4
Number of children	1	4	3	1

Ans:	ł
------	---

25. In the figure, ABCD is a square and EFGC is a rectangle. ∠BCE = 43°. Find ∠GCD.

Do not write in this space



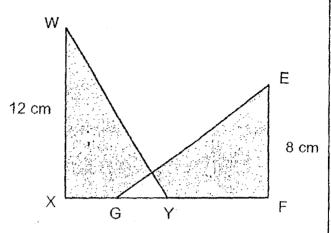
Ans: ______

26. The ratio of Julia's money to Mani's money is 2:3. The ratio of Mani's money to Kee Lin's money is 4:5. Kee Lin has \$30. Find the total sum of money the three girls have.

Ans: \$_____

27. In the figure, WXY and EFG are identical triangles. The total area of the shaded parts is 80 cm². Find the area of the unshaded part.

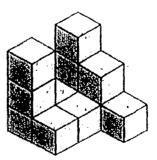
Do not write in this space



Ans: cm²

28. The solid below is made up of 1-cm cubes. How many more cubes are needed to make a cube of sides 3 cm?

7



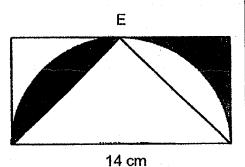
Ans: _____

29.	Ali and Beng Huat had the same amount of money at first. After Al
	spent \$34, Beng Huat had thrice as much money as Ali. How muc
	money did they have in total at first?

Do not write in this space

Ans: \$_____

30. The diagram is made up of a rectangle, triangle and a semicircle. E is the midpoint of the length of the rectangle. The length of the rectangle is 14 cm. Find the area of the shaded region. Take $\pi = \frac{22}{7}$.



Ans:_____cm²

METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



PRELIMINARY EXAMINATION 2019 PRIMARY 6 MATHEMATICS

PAPER 2

Duration: 1h 30 min

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

Name:		()	
Class:	Primary 6			
Date:	20 August 2019			55
Parent's	Signature:			

1 For every \$5 that Suzy saved, her father will contribute another \$0.50 to her savings. Suzy's father contributed a total of \$11. What was Suzy's total savings in the end? Ans: \$	Гориос	Do no in this	write nits, (10 marks)	juire un	lng clea hich red	ur woi stions	Show y For que	vided.	aces pr	the sp	ions 1 to s nswers in our answe	your a
2 What is the greatest number of circles, of radius 6 cm, that can be cut			r \$0.50 to as Suzy's	anothér /hat wa	ntribute \$11. V	will co total	er fathe buted	er conti	zy's fat	ıgs. Sı	her savin	1
2 What is the greatest number of circles, of radius 6 cm, that can be cut												
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2 What is the greatest number of circles, of radius 6 cm, that can be cut												
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2 What is the greatest number of circles, of radius 6 cm, that can be cut												
2 What is the greatest number of circles, of radius 6 cm, that can be cut												
					Ans: \$							
												*.
			i be cut	hat can								2
			.'	•								
			. }									
Ans:	7											

3 A pencil case costs \$4 more than a sharpener. The total cost of 3 such pencil cases is \$p.

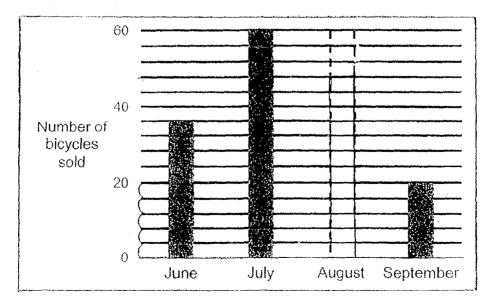
Do not write in this space

- (a) Express the cost of 15 such pencil cases in terms of p.
- (b) Express the cost of a sharpener in terms of p.

Ans: (a) \$	[1]	
(b) \$	[1]	

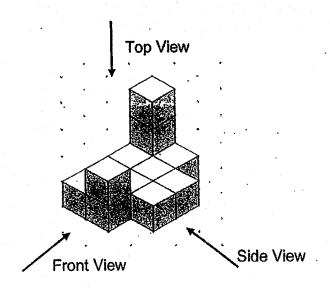
The bar graph shows the number of bicycles sold by a shop from June to September. The shop sold a total of 164 bicycles.

The number of bicycles sold in August is not shown in the graph. Draw the bar representing the number of bicycles sold in August.



The solid below is made up of thirteen 1-cm cubes.Draw the front view and the side view of the solid on the grids below.

Do not write in this space



Front View Side View

For questions 6 to 17, show your working clearly and write your answers in the space provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

Do not write in this space

A survey on the places of interest that the pupils in Primary 2 liked was carried out. The results of the survey are shown in the pie chart below.



- $\frac{1}{6}$ of the pupils surveyed liked the Jurong Bird Park. The number of pupils who liked the Night Safari was the same as the number of pupils who liked the Jurong Bird Park. 30% of the pupils liked Universal Studios.
- (a) How many pupils took part in the survey?
- (b) How many pupils liked Gardens by the Bay?

Ans: (a) ____[1]

(b)___[2]

7	Betty and Cathy had 294 stickers altogether. Betty gave away $\frac{3}{8}$ of her	Do not writ
	stickers and Cathy gave away $\frac{2}{5}$ of her stickers. Both had same number	* * · · · •
	of stickers left. How many stickers did Cathy give away?	
		a de la companya de l
 -8	At 08 00, a lorry left Town A for Town B moving at a speed of 60 km/h	A Table and Advantage Communication and Communication Comm
8	Ans:[4] At 08 00, a lorry left Town A for Town B moving at a speed of 60 km/h. At 09 00, a car left Town A for Town B moving at a speed of 75 km/h. Both vehicles did not change their speeds throughout. What was the	
8	At 08 00, a lorry left Town A for Town B moving at a speed of 60 km/h. At 09 00, a car left Town A for Town B moving at a speed of 75 km/h.	
8	At 08 00, a lorry left Town A for Town B moving at a speed of 60 km/h. At 09 00, a car left Town A for Town B moving at a speed of 75 km/h. Both vehicles did not change their speeds throughout. What was the	
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8	At 08 00, a lorry left Town A for Town B moving at a speed of 60 km/h. At 09 00, a car left Town A for Town B moving at a speed of 75 km/h. Both vehicles did not change their speeds throughout. What was the	

9	A box of chicken wings is 15 kg heavier than a packet of nuggets. The total mass of 5 packets of nuggets and 6 boxes of chicken wings is 189 kg. What is the mass of a box of chicken wings?	Do not write in this space
	Ans:[3]	
10	Shana has two rectangular boxes of difference sizes. The length, breadth and height of the larger box is twice those of the smaller box. She packed 16 identical cubes exactly into the smaller box. How many such cubes can be packed exactly into the larger box?	
	Ans:[3]	

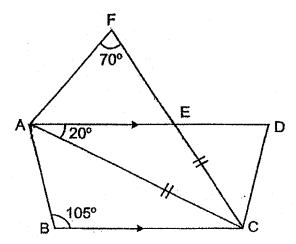
In the figure, ABCD is a trapezium and ACF is an isosceles triangle.

AED and CEF are straight lines. ∠AFC = 70°, ∠EAC = 20° and

∠ABC = 105°.

Do not write in this space

- (a) Find ∠BAC.
- (b) Find ∠AEC.



Ans: (a) _____[2]

(b) _____[2]

A shop sells shorts in five different sizes. The table shows the number of shorts sold in January.

Do not write in this space

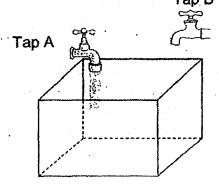
Size of shorts	Number of shorts
XS	84
S	152
М	?
L.	81
XL	65

- (a) 14% of the shorts sold were in size XS. How many of the shorts sold were in size M?
- (b) In February, there was a 20% decrease in the number of shorts sold in size XL. How many fewer XL shorts were sold in February?

Ans:	(a)		[2	l
------	-----	--	----	---

Tap A and Tap B can fill a tank at a rate of 3 ℓ per minute and 5 ℓ per minute respectively. At first, only Tap A was turned on. When the tank was $\frac{1}{4}$ - filled with water, Tap B was then turned on. Six minutes later, the tank was $\frac{7}{8}$ - filled with water. How much water was there in the tank just before Tap B was turned on?

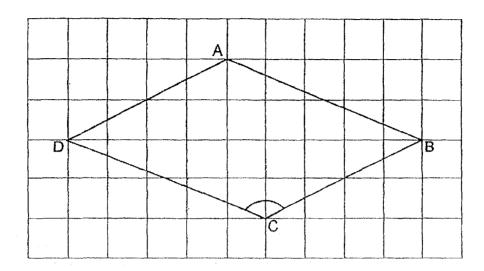
Do not write in this spac



Ans: _____[4]

14 In the figure below, ABCD is a parallelogram.

Do not write in this space



- (a) Draw a line AE perpendicular to DC.
- [1]

- (b) Measure ∠BCD.
- (c) Name the shape formed by figure ABCE.
- (d) Name a pair of parallel lines.

Ans: (b) _____[1]

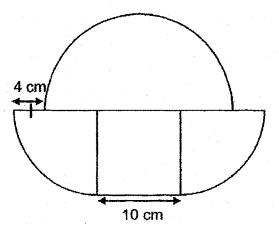
(c) _____[1]

(d) _____[1]

15 The figure below is made up of a square, 2 identical quarter circles and a semicircle. The sides of the square measure 10 cm. Take $\pi = 3.14$.

Do not write in this space

- (a) Find the perimeter of the figure.
- (b) Find the area of the figure.



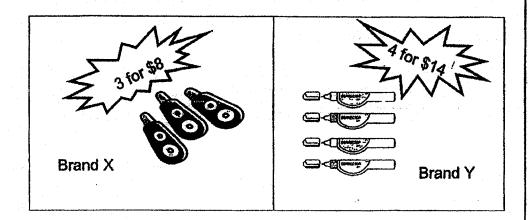
Ans: (a) _____[2]

(b) _____[2]

16	In a singing competition, the ratio of male participants to female participants was 1:5 at first. After the first round of competition, 25% of the male participants and 60% of the female participants did not make it to the second round. In the second round, there were 15 more female participants than male participants.	Do not write in this space
	(a) What was the ratio of the number of female participants to the number of male participants in the second round?(b) How many more female than male participants were there at first?	
		w f
	Ans: (a)[2]	
	(b)[3]	

Mrs Lim bought an equal number of Brand X and Brand Y correction tapes. She spent \$180 more on Brand Y correction tapes.

Do not write in this space



- (a) How many correction tapes did she buy altogether?
- (b) How much did she spend on the Brand X correction tapes?

Ans:	(a)		[3	,
------	-----	--	----	---

SCHOOL: MGS PRIMARY SCHOOL LEVEL: PRIMARY 6 SUBJECT: MATH TERM: 2019 PRELIM

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	2	3	4	3	1	2	4	3	3

Q 11	Q12	Q13	Q14	Q15
2	3	1	3	3

PAPER 1 BOOKLET B

Q16)	0.14 x10=1.4
	1146-01

Q17)
$$2.35 = 2\frac{35}{100} = 2\frac{7}{20}$$

Q18)
$$\frac{1}{7}$$

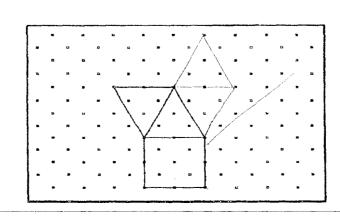
Q19)
$$50 \text{min} \rightarrow \frac{50}{60} \text{ h} = \frac{5}{6}$$

$$18 \times \frac{5}{6} = 15$$

Q20)
$$9 \times 4 = 36$$

$$36 - \frac{44}{2} = 36 - 22 = 14$$

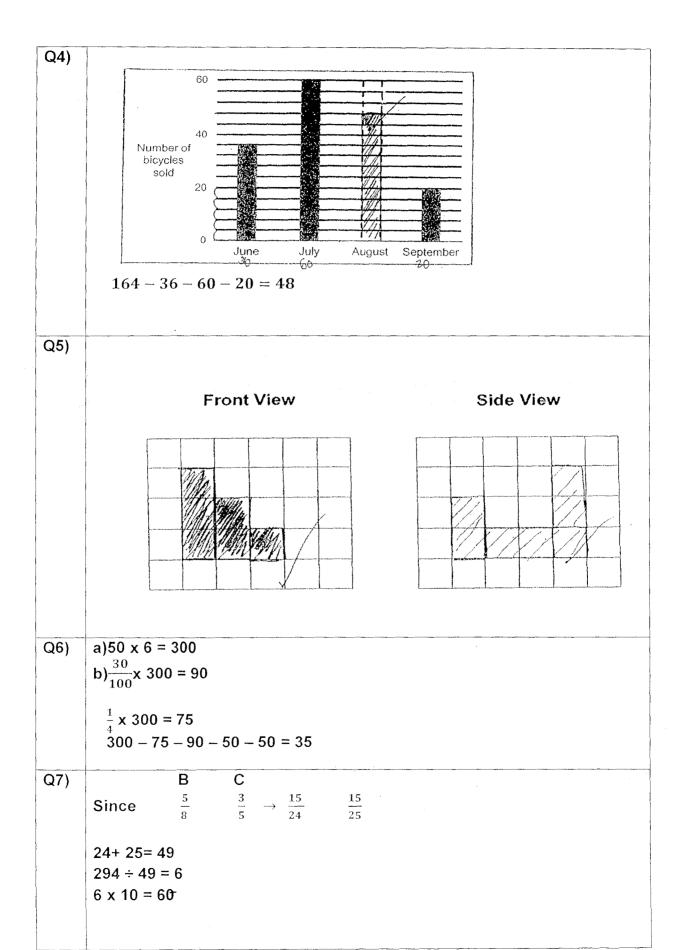
Q21)



Q22)	a)Not possible to tell	
	b)False	
Q23)	Korea	
Q24)	$2\frac{1}{3}h$	
Q25)	90° - 43° = 47° 90° - 47° = 43°	
Q26)	$30 \div 15 = 2$ 2 x 35 = \$70	
Q27)	96 - 80 = 16 16 ÷ 2 = 8 cm ²	
Q28)	3 x 3 x 3 = 27 27 - 12 = 15	
Q29)	$34 \div 2 \times 6 = \$102$	
Q30)	$14 \times 7 = 98$	
	$14\times7\times\frac{1}{2}=49$	
	98 - 49 = 49	
	$49 \div 2 = 24.5 cm^2$	

PAPER 2

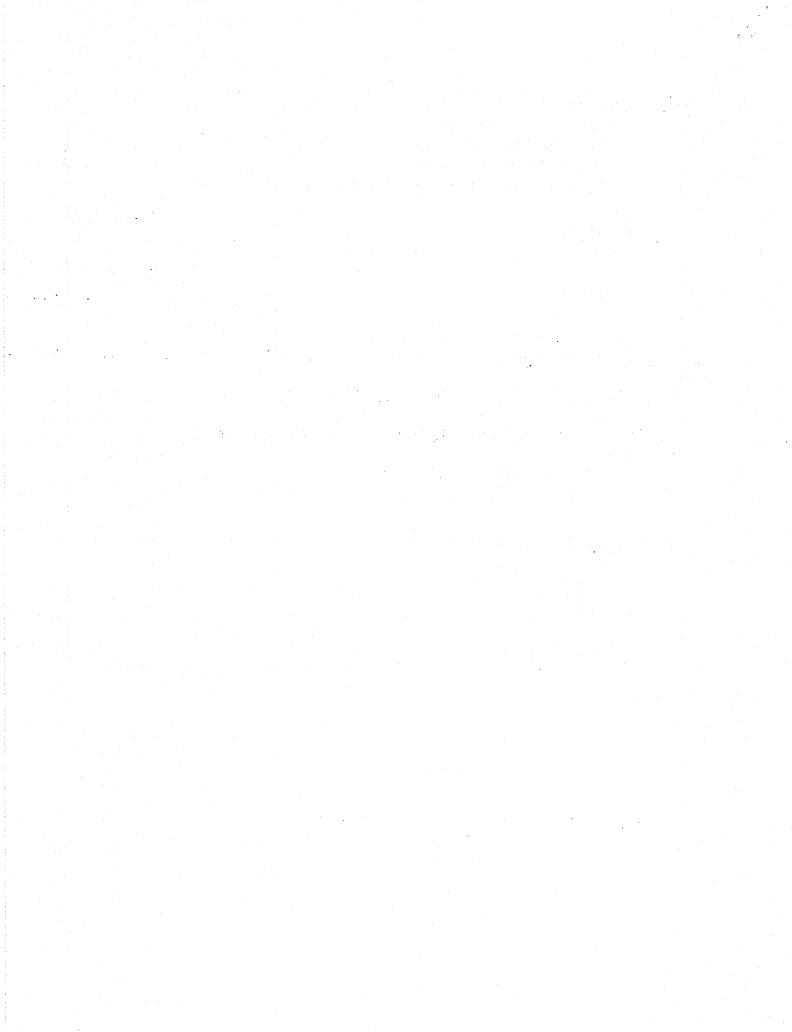
Q1)	\$11 ÷ \$0.50 = 22 22 x \$5 = \$110 \$110 + \$11 = \$121			
Q2)	100 ÷ 12 = 8 50 ÷ 12 = 4 8 x 4 = 32			
Q3)	a)15 ÷3 = 5 5 x \$p = \$(5p) b) $\frac{p}{3} - 4 = (\frac{p}{3} - 4)$			



Q8)	75 – 60 = 15
QU)	60 ÷ 15 = 4
	$75 \times 4 = 300 \text{km}$
Q9)	15kg x 6 = 90kg
Q3)	189kg – 90kg = 99kg
	99kg ÷ (5+6) = 9kg
	9kg + 15kg = 24kg
040)	C v C v C = 24C
Q10)	$6 \times 6 \times 6 = 216$
	12 x 12 x 12 = 1728
	216→ 16 1728
	$1728 \rightarrow \frac{1728}{216} \times 16 = 128$
Q11)	a) $180^{\circ} - 20^{\circ} - 105^{\circ} = 55^{\circ}$
	b)70° – 20° = 50°
	$180^{\circ} - 50^{\circ} - 70^{\circ} = 60^{\circ}$
	180° – 60° = 120°
Q12)	a)84 \div 14 x 100 = 600
	600 - 84 - 152 - 81 - 65 = 218
1, 4	$b)65 \div 100 \times 80 = 52$
	65 – 52 = 13
Q13)	$5L \times 6 = 30L$
	3L x 6 = 18L ∫ 6min
	$\frac{7}{2} = \frac{2}{5} = \frac{5}{2}$
	8 8 8
	18L+ 30L = 48L
	$48L \div 5 \times 2 = 19.2L$
044)	
Q14)	a) A
	D B
-	
Q14)	b)131°
Q 14)	c)Trapezium
	d)DC//AB

ľ

```
Q15) a)Arc of quadrant = 2\pi r \times \frac{1}{4}
           = 2 \times 3.14 \times 10 \times \frac{1}{4} = 15.7
           Arc of semicircle = 2 \pi r \times \frac{1}{2}
           = 2 \times 3.14 \times 11 \times \frac{1}{2} = 34.54
           34.54 + 4 + 15.7 + 10 + 15.7 + 4 = 83.94cm
            Quadrant
         b)\pi r^2 = 3.14 \times 10 \times 10 \times \frac{1}{2} = 157
             square
            10 \times 10 = 100
             Semicircle
            \pi r^2 = 3.14 \times 11 \times 11 \times \frac{1}{2} = 189.97
             189.97 + 100 + 157 = 446.97 \text{ cm}^2
                                                            F : M
Q16)
        a)40u - 15u = 25u
                                                            24: 9
            15 \div 25 \times 40 = 24
            15 \div 25 \times 15 = 9
                                                             8 : 3 (ans)
         b)100u - 20u = 80u
            15 \div 25 \times 80 = 48
Q17) a)$42 - $32 = $10
           $180 \div $10 = 18
            12 \times 18 = 216
            12 \times 18 = 216
            216 \times 2 = 432
         b)216 \div 12 = 18
            18 \times 32 = $576
```





NAN HUA PRIMARY SCHOOL PRELIMINRY EXAMINATION – 2019 PRIMARY 6

MATHEMATICS PAPER 1 (BOOKLET A)

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

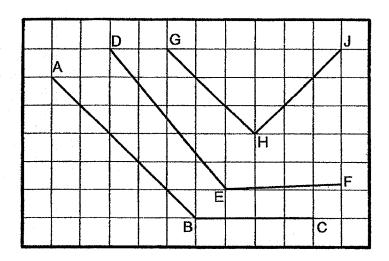
- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1-15.
- 6. The use of calculators is **NOT** allowed.

Name:	()
Class: 6		
Date: 22 August 2019	Parent's Signature:	

事物 医海内膜炎 化双环烷酸 医克克氏 医克里氏 医二甲基甲基 化基础 医电影 医二氏病	
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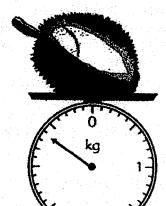
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

- 1. Express 759.285 to the nearest hundredth.
 - (1) 759.28
 - (2) 759.29
 - (3) 760
 - (4) 800
- 2. Which two lines are parallel to each other?



- (1) AB and DE
- (2) AB and GH
- (3) GH and HJ
- (4) BC and EF

3. What is the mass of the durian shown?



- (1) 3 kg 40 g
- (2) 3 kg 60 g
- (3) 3.4 kg
- (4) 4.6 kg
- 4. Which one of the following is the most likely mass of your Student's Diary 2019?

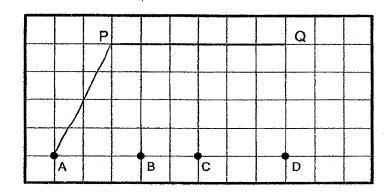


- (1) 20 g
- (2) 2 g
- (3) 200 g
- (4) 2000 g
- 5. $600 + 6 + \frac{6}{100} + \frac{6}{1000} =$ ______
 - (1) 66.666
 - (2) 606.066
 - (3) 606.66
 - (4) 6666

6. Simplify 12a + 8 - a - 3 + 2a.

- (1) 9a + 5
- (2) 13a + 5
- (3) 13a + 11
- (4) 15a + 11

7. A, B, C, D are points on a square grid.
Which point when joined to P and Q forms an obtuse-angled triangle?



- (1) A
- (2) B
- (3) C
- (4) D

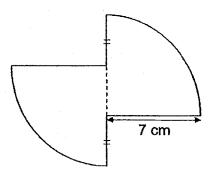
8. Arrange the following distances from the shortest to the longest.

4.3 km 4 3 km 430 m

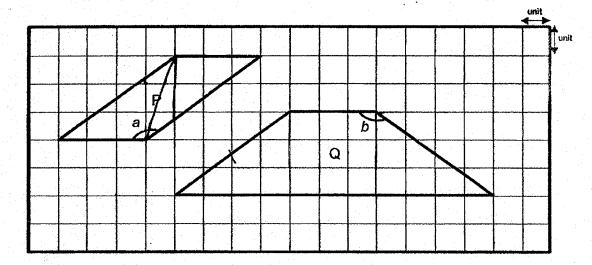
	<u>Shortest</u>			Longest
(1)	4.3 km ,	$4\frac{3}{4} \text{ km}$,	430 m
(2)	430 m	$4\frac{3}{4}$ km	•	4.3 km
(3)	$4\frac{3}{4} \text{ km} ,$	430 m		4.3 km
(4)	430 m ,	4.3 km		$4\frac{3}{4}$ km

- 9. The ratio of the number of boys to the number of girls to the number of adults at a fun fair is 6:3:2. What is the ratio of the number of adults to the number of children?
 - (1) 2:9
 - (2) 2:11
 - (3) 9:2
 - (4) 11:2

- 10. 20% of a number is 80. What is the number?
 - (1) 16
 - (2) 40
 - (3) 160
 - (4) 400
- 11. Which one of the following fractions is nearest to $\frac{1}{2}$?
 - (1) $\frac{2}{3}$
 - (2) $\frac{3}{4}$
 - (3) $\frac{2}{5}$
 - (4) $\frac{3}{7}$
- 12. The figure below is formed by joining two quarter circles of radius 7 cm. Find the perimeter of the figure. (Take $\pi = \frac{22}{7}$)
 - (1) 22 cm
 - (2) 36 cm
 - (3) 43 cm
 - (4) 77 cm



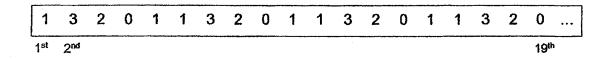
- 13. John had some sweets. After he gave 8 sweets to Pei Ling, they had the same number of sweets. How many sweets did John have at first. Let *m* be the number of sweets Pei Ling had a first.
 - (1) m
 - (2) m+4
 - (3) m + 8
 - (4) m + 16
- 14. Two figures, P and Q, are shown in the square grid below.



Which of the statement(s) is/are true?

- A. $\angle a = \angle b$
- B. The perimeter of Figure Q is 8 units more than the perimeter of Figure P.
- C. The area of Figure Q is 4 times of the area of Figure P.
- (1) A only
- (2) B only
- (3) A and B
- (4) A and C

15. A repeated pattern is formed using the numbers 0, 1, 2 and 3. The first 19 numbers are shown below.



What is the sum of the first 403 numbers?

- (1) 560
- (2) 563
- (3) 564
- (4) 566



NAN HUA PRIMARY SCHOOL PRELIMINARY EXAMINATION - 2019 PRIMARY 6

MATHEMATICS PAPER 1 (BOOKLET B)

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Write your answers in this booklet.
- 6. The use of calculators is **NOT** allowed.

Marks Obtained

mants optai		
Paper 1	Booklet A	/ 45
	Booklet B	, 10
Paper 2		/ 55
Total		/ 100

Name :	()
Class : 6		
Date : 22 August 2019	Parent's Signature:	

공연들은 이 사람이 본래 하지 않는데 하지 않아 많아 되는 그는 사람들은 학교를 하는 것이 되는 것이 되는 것 같아.
하고요. 그 또 그렇게 그리는 얼마나 아는 사람들이 없는 것이었다. 그 그 그는 그는 그는 그는 그는 그는 그는 그를 모르는 것이다. 그는 그를 모르는 것이다.
가는 하는 것 같은 사람들이 하는 사람들이 되었다. 그런 사람들이 없는 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 없는 사람들이 되었다.
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어린 그림을 전혀가 되어 되는 학자들도 보험하지 않는 것은 것을 받아 모든 그 생각하는 그렇게 하는 것을 보다 하는 것
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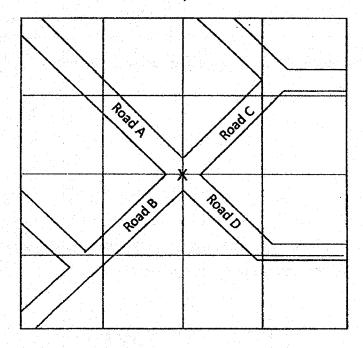
Ques	stions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. questions which require units, give your answers in the units stated. (5 marks)	Do not write in this space
16.	Write one million, two hundred and four thousand and five hundred in numerals.	·
	Ans:	
17.	Find the value of 10 ÷ 2000. Give your answer in decimal.	
	Ans:	
18.	There are 6 shaded squares in the figure. Shade 2 more squares to form a symmetric figure with AB as the line of symmetry.	
	B	

19. Express 12.5% as a fraction in its simplest form.

Do not write in this space

Ans:			
rang.		 ·	

20. The figure below shows a road map.



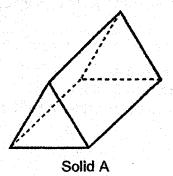
Jerry approached the cross junction 'X' in a car from one of the roads. He turned his car 90° clockwise onto Road B. Which road was he coming from before he turned onto Road B?

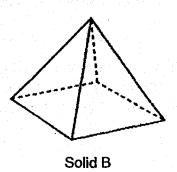
_	4		
Ans:			
11 10.	 		

Questions 21 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For each questions which require units, give your answers in the units stated. (20marks)								
21.	The Tan family drove from Singapore to Malaysia. They left Singapore at 10.45 a.m. and travelled for 2 h 25 min. What time did they arrive in Malaysia? Give your answer in 24 h clock.							
	•							
			.•					
				•				
		Article (* * * * * * * * * * * * * * * * * * *					
•								
			Ans:					
22.	Find the value of 3 ÷ 7. Gi	ve your an	swer correct	to 2 decima	al places.			
			_					
			Ans:					

23. a) Which of the following solids is a prism?

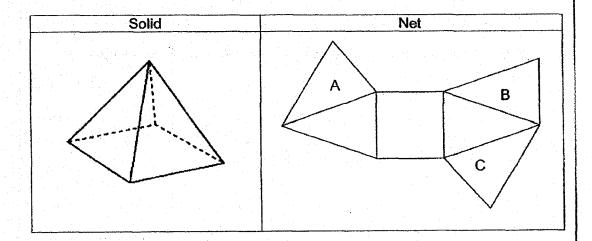
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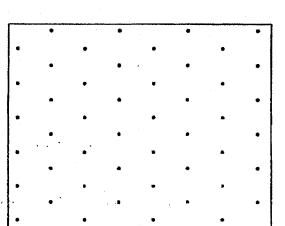
Ans: _____

a) The net drawn for the solid below is incorrect.Which triangle (A,B or C) does not fit the net of the solid?



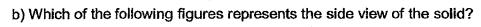
Ans:

24. a) Complete the cuboid on the isometric grid.

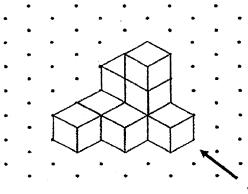


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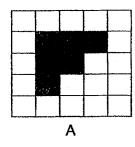
24. a) complete ale dabola en ale lecinosis gila.



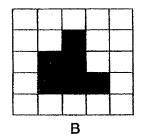
2 cm

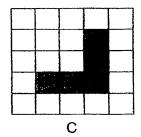


Side View



3 cm





Ans: _____

25.	Jenny had some milk. She drank $\frac{1}{5}$ litres of milk and used $\frac{1}{2}$ litres of	Do not write in this space
	milk to bake cakes. After that, she had 2 litres of milk left. How many	
	litres of milk did she have at first?	
	lander van de transport en de gestaf de la kontribuit format en de la deservación de la companya de la company Region de la companya de la karación de grande en la companya de la companya de la companya de la companya de	
	으로 발생되는 경우 시간을 보냈다면 보면 되었다. 그는 사람들은 사람들이 가장 보는 것이 되었다. 11. 기계를 하는 사람들이 가장 하는 것이 되었다. 그는 사람들이 가장 하는 것이 되었다.	
	Ans: &	
		L
26.	Car A travelled 45 km in $\frac{1}{2}$ h. Car B travelled 150 km in 2 h.	
	Which car travelled at a slower average speed?	
	마른, 통하다 하늘 그리는 하는데 그림으로 하는데 하는데 모든 나는 얼굴했다. 이	
	. [발생[14] [14] [15] [16] [16] [16] [16] [16] [16] [16] [16	
		L .

Ans: ___

27. The average number of stickers Henry collected in five days is 8.

The table below shows the number of stickers Henry collected in five days.

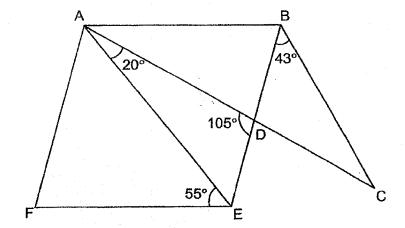
How many stickers did he collect on Wednesday?

Do not write in this space

Day	Mon	Tues	Wed	Thurs	Fri
Number of Stickers	5	0	?	12	10

Ans:_____

28. In the figure below, ABEF is a rhombus and ABC is a triangle. ∠CAE = 20°. ∠CBE = 43°. ∠AEF = 55°. ∠ADE = 105°.

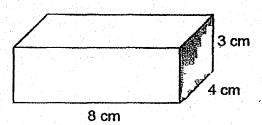


Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (\checkmark) in the correct column.

Statement	True	False	Not possible to tell
ABE is an isosceles triangle.			
ABC is an isosceles triangle.			

29. Joshua had a rectangular block of wood 8 cm by 4 cm by 3 cm. He painted all the faces of the block. He cut the block into 1-cm cubes. How many of the cubes did not have any of its faces painted?

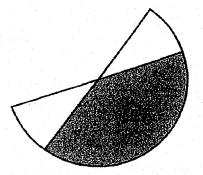




4.4							
Ans:				5 .			
A113.	 	_	 		 	 	

30. The figure is formed by overlapping 2 semicircles of radius 7 cm. The overlapped area is 60 cm².

Find the area of the figure. (Take $\pi = \frac{22}{7}$)



					1		
					1		
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ns:			cm ²		1		

END OF PAPER



NAN HUA PRIMARY SCHOOL **PRELIMINARY EXAMINATION - 2019** PRIMARY 6

MATHEMATICS

Paper 2

Total Time for Paper 2: 1 hour 30 r	ninutes
5 Short Answer Questions	(10 marks)
12 Structured / Long Answer Ques	stions (45 marks)
INSTRUCTION TO CANDIDATES	
1. Write your name and index and 2. Do not turn over the page upon a second and a second and a second and a second and a second are allowed to use a call and a second and a second are allowed to use a call and a second are allowed to use a call and a second are a	ntil you are told to do so. fully now your workings clearly.
Total	/ 55
Name :	(
Class : 6	
Date: 22 Aug 2019 Pare	ent's Signature :

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the space provided. For questions which require units, give your answers in the units stated. (10 marks)

1.	The pie chart below shows the different ways 120 students go to school. How many students go to school by car?	Do not write in this space
	PARTIE SAN TERE EN EN EN EN EN EN EN EN EN EN EN EN EN	
	Bus 40%	
	Car	
	Walk	
:	• VVelik	
	n en	
	<u>10</u>	
	Ans: Ans:	<u> </u>
2.	Janice mixed 750 ml of orange squash with 2250 ml of water to make orange juice. She poured the orange juice into some identical bottles. The capacity of each bottle is 800 ml. What was the least number of bottles she used to contain all the orange juice?	
	Ans:	
V 44 4	London State Control of the Contr	

). * .	What is	the sum o	ars old now of their age swer in tern	s 2 year	n is <i>m</i> years you s ago?	unger thai	n her.	Do not write in this spac
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	The table	ity centre	Time	m.	Char	ge r hour	t a	
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	commun	9 a 6 p coked a l	Time a.m. – 6 p.r b.m. – 10 p.	m. m. court fro	Char \$3.50 pe \$7.20 pe	ge r hour r hour	t a	
	commun	9 a 6 p coked a l	Time a.m. – 6 p.r b.m. – 10 p.	m. m. court fro	Char \$3.50 pe \$7.20 pe	ge r hour r hour	ta	
	commun	9 a 6 p coked a l	Time a.m. – 6 p.r b.m. – 10 p.	m. m. court fro	Char \$3.50 pe \$7.20 pe	ge r hour r hour	ta	
	commun	9 a 6 p coked a l	Time a.m. – 6 p.r b.m. – 10 p.	m. m. court fro	Char \$3.50 pe \$7.20 pe	ge r hour r hour	ta	
	commun	9 a 6 p coked a l	Time a.m. – 6 p.r b.m. – 10 p.	m. m. court fro	Char \$3.50 pe \$7.20 pe	ge r hour r hour	ta	
	commun	9 a 6 p coked a l	Time a.m. – 6 p.r b.m. – 10 p.	m. m. court fro	Char \$3.50 pe \$7.20 pe	ge r hour r hour	ta	
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	commun	9 a 6 p coked a l	Time a.m. – 6 p.r b.m. – 10 p.	m. m. court fro	Char \$3.50 pe \$7.20 pe	ge r hour r hour	ta	
	commun	9 a 6 p coked a l	Time a.m. – 6 p.r b.m. – 10 p.	m. m. court fro	Char \$3.50 pe \$7.20 pe	ge r hour r hour	ta	
	commun	9 a 6 p coked a l	Time a.m. – 6 p.r b.m. – 10 p.	m. m. court fro	Char \$3.50 pe \$7.20 pe	ge r hour r hour	t a	
	commun	9 a 6 p coked a l	Time a.m. – 6 p.r b.m. – 10 p.	m. m. court fro	Char \$3.50 pe \$7.20 pe	ge r hour r hour	t a	
	commun	9 a 6 p coked a l	Time a.m. – 6 p.r b.m. – 10 p.	m. m. court fro	Char \$3.50 pe \$7.20 pe m 4 p.m. to 8 p	ge r hour r hour	t a	
	commun	9 a 6 p coked a l	Time a.m. – 6 p.r b.m. – 10 p.	m. m. court fro	Char \$3.50 pe \$7.20 pe	ge r hour r hour	ta	

Do not Mrs Tan pinned a piece of cloth onto the class notice board using some 5. write in pins. The figure below shows part of the notice board. Pins are placed at this space an equal distance on the perimeter of the notice board. The distance between every 2 pins is 10 cm. Pins are placed at the 4 corners of the notice board. How many pins are used? 10 cm 80 cm 320 cm Ans:

For questions from 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

6.	Sale, the price of the dining table during	f a dining table was \$950. During the Great Singapore the dining table was reduced by 20%. Jane bought the g the sale. She also paid an additional 7% GST on the How much did Jane pay for the dining table in total?	Do not write in this space
			,
			. • •
			•
	· .		
	e e e		
			<u> </u>
		Ans: [3]	

7. In the figure below, ABFG is a square, CDEF is a rectangle and DEG is a triangle. AG = 5 cm, CD = 4 cm and DE = 7 cm.

What is the area of the shaded part? Do not write in this space 4 cm 7 cm 5 cm [3] Ans:

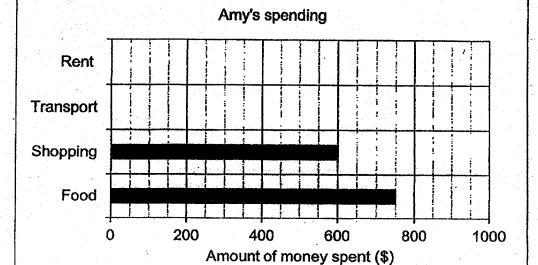
Tom and Jerry started jogging from the same start point of a 4 km track 8. Do not write in round a park. They started at the same time but in opposite directions. this space Both of them did not change their speed throughout. Jerry jogged at a slower speed than Tom. After 20 min, Tom jogged 3200 m. Jerry was 2000 m away from him. What was Jerry's jogging speed in m/min? Jerry 4 km track Start point Park Ans: __ [3]

9.	Jie Yi had a square piece of paper. She made 2 folds from the corner to the diagonal line as shown below. a) Find ∠x. b) Find ∠y.	Do not write in this space
	45° V	
	Ans: a)[1]	
	b)[2]	

Cakes 2 for \$9 She bought an equal number of cakes and muffins. She spent \$55 more on cakes than muffins. How many cakes and	this s
2 for \$9 3 for \$8 She bought an equal number of cakes and muffins.	
She bought an equal number of cakes and muffins.	
She bought an equal number of cakes and muffins. She spent \$55 more on cakes than muffins. How many cakes and	
did she buy altogether?	l muffins
	l <u> </u>

11. Amy spends \$2400 each month. Her spending each month is represented by the bar graph below. The bars for the amount spent on rent and transport have not been drawn.

Do not write in this space



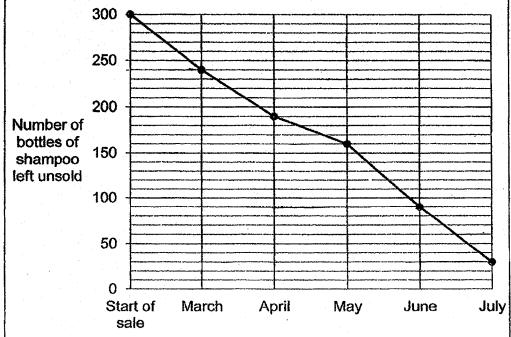
- a) What percentage of her spending did Amy spend on shopping?
- b) What fraction of her spending did she spend on food? Express your answer in the simplest form.
- c) Amy spends more money on rent than on shopping. She spends the most amount of money on food.

Write down one possible set of values for the amount of money she spent on rent and transport. The values can only be multiples of 10.

Ans:	a)		[1	
7 11 10.	ω,		L	١,

12. Mr Lee is a salesman. He had 300 bottles of shampoo. The line graph shows the number of bottles of shampoo left unsold at the end of each month.

Do not write in this space



- a) In which month was the most number of bottles of shampoo sold?
- b) What was the percentage decrease in the number of bottles sold in May compared to April?

Ans: a) _____[2]

b)____[2]

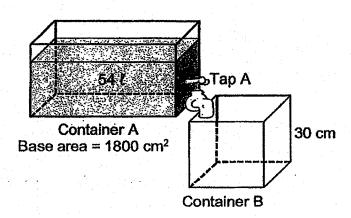
At a collect	ed from the sale of child tickets is \$3500 more that the sale of adult	Do not write in this space
a)	How much was collected from the sale of adult tickets? The ratio of the number of adults to the number of children is 1:3. The cost of an adult ticket is \$30 more than the cost of a child ticket. How many adult tickets were sold?	
	그 선생님 회원하다 이 불러워워하는 그 그리고 하는 그 그네.	
	- 프로젝트 - Harris - Harris - Harris - Harris - Harris - Harris - Harris - Harris - Harris - Harris - Harris - Har	
		4 1
		•
		1.1
	Ans: a)[1]	
	\(\frac{1}{2}\)	
	b)[3]	

In the figure below, ABCD is a parallelogram. O is the centre of the circle. 14. Do not write in this space a) Find ∠DBO. b) Find ∠OBC. c) Find ∠DAB. Ans: a) _____[1] c)____[1]

15.	The participants of a competition are divided equally into 2 groups, Group A and Group B. In Group A, there are 30 more boys than girls. In Group	Do not write in
	B, there are 18 more girls than boys. $\frac{3}{7}$ of all the participants are girls. How	this space
	many participants are boys?	
	Ans:[3]	

The figure below shows 2 containers, A and B.
Container A is rectangular and contains 54 t of water.
Container B is cubical and empty at first.

Do not write in this space



a) Find the height of water in Container A.

b) Tap A is turned on. Tap A allows water to flow from container A to B at a rate of 3 \(\ell \) per min. How long will it take for height of the water level in both containers to be the same?

Ans: a) _____[1]

b) ____[4]

In the figures below, the shaded and unshaded dots follow a pattern.

Do not write in this space

0









Figure 1 Figure 2

Figure 3

Figure 5

(a) Study the above figures and complete the table for Figure 6.

Figure number	Number of unshaded dots	Number of shaded dots	Total number of dots
1	1	0	1
2	1	2	3
3	4	2	6
4	4	6	10
5	9	6	15
6	(i)	(ii)	(iii)

(b) What is the total number of dots in Figure 50?

Ans: a) (i) _____

- End of Paper 2 -

SCHOOL: NAN HUA PRIMARY SCHOOL

LEVEL :

PRIMARY 6

SUBJECT: MATH

TERM: 2019 PRELIM

PAPER 1 BOOKLET A

	Q 1	Q2	Q3		Q5	Q6	Q7	Q8	Q9	Q10
	2	2	3	3	2	2	1	4	1	4

Q 11	Q12	Q13	Q14	Q15
4	3	4	3	4

PAPER 1 BOOKLET B

Q16)	1204500
Q17)	$10 \div 2000 = 0.005$
Q18)	
	Α
	l l
	В
Q19)	$12.5\% = \frac{12.5}{100} \times 2$
	$=\frac{25}{200} \div 5$
	$=\frac{5}{40} \div 5 = \frac{1}{8}$
Q20)	Road A
Q21)	13:10pm
Q22)	0.43

1 (A)23	o)Colid A	· · · · · · · · · · · · · · · · · · ·			
Q23)	a)Solid A b)B				
024)					
Q24)	a)				
	** · · · · · · · · · · · · · · · · · ·	4	•	* *	
	•		•	•	
		The same of the sa	A STATE OF THE STA		
	•	Mark of propagation of the State of the Stat	The same and the same of the s	•	
			•		
	•		Y	2cm	
			•	•	
		. 30	1	- January P	
	•	2 11 2		2cm	
		• • •			
	b)C				*
	4 2				
Q25)	$\frac{1}{5}l \times 2 = \frac{2}{10}l = o.$	21	$\frac{1}{2}l$ ×	$5 = \frac{5}{10}l = 0.$	5 <i>l</i>
	2l + 0.5l + 0.2l =				
Q26)	Car A		Car B		
	$S = \frac{45km}{\frac{1}{2}h}$		$s = \frac{150kr}{3}$	$\frac{n}{n}$	
	$\frac{\hat{2}}{2}h$		$3-\frac{1}{2h}$		
	=90km/h	·	=75km	n/h	Ans : Car B
Q27)	8x5=40	· · · · · · · · · · · · · · · · · · ·	=75km	n/h	Ans : Car B
Q27)			=75km	n/h	Ans : Car B
	8x5=40		=75km	n/h	Ans : Car B
Q27)	8x5=40 40-5-12-10-0=13				Ans : Car B
	8x5=40		=75km	n/h Not	Ans : Car B
	8x5=40 40-5-12-10-0=13				Ans : Car B
	8x5=40 40-5-12-10-0=13				Ans : Car B
	8x5=40 40-5-12-10-0=13				Ans : Car B
	8x5=40 40-5-12-10-0=13				Ans : Car B
Q28)	8x5=40 40-5-12-10-0=13 True $\sqrt{}$ $3cm \div 1cm = 3$ $4cm \div 1cm = 4$		False √ 3-2=1 4-2=2		Ans : Car B
Q28)	8x5=40 40-5-12-10-0=13 True $\sqrt{}$ $3cm \div 1cm = 3$		False √ 3-2=1 4-2=2 8-2=6		Ans : Car B
Q28)	8x5=40 40-5-12-10-0=13 True $\sqrt{}$ $3cm \div 1cm = 3$ $4cm \div 1cm = 4$		False √ 3-2=1 4-2=2		Ans : Car B
Q28)	8x5=40 40-5-12-10-0=13 True $\sqrt{}$ $3cm \div 1cm = 3$ $4cm \div 1cm = 4$ $8cm \div 1cm = 8$		False √ 3-2=1 4-2=2 8-2=6		Ans : Car B
Q28)	8x5=40 40-5-12-10-0=13 True $\sqrt{}$ $3cm \div 1cm = 3$ $4cm \div 1cm = 4$	= 154 <i>cm</i> ²	False √ 3-2=1 4-2=2 8-2=6		Ans : Car B

D:--

NAN HUA PRIMARY SCHOOL Preliminary Examination - 2019 PRIMARY 6 MATHEMATICS

Paper 2

3)
$$35 + 35 - m - 2 - 2 = 66 - m$$

7)

$$(5 \times 5) + (4 \times 7) = 53$$

 $\frac{1}{2} \times 7 \times 9 = 31.5$
 $53 - 31.5 = 21.5 \text{ cm}^2$

$$\frac{1}{2} \times 7 \times 9 = 31.5$$

 $5 \times 2 = 10$
 $31.5 - 10 = 21.5$

9) a)
$$180 - 45 - 90 = 45^{\circ}$$

b) $45 \div 2 = 22.5$
 $180 - 22.5 - 90 = 67.5^{\circ}$

$$30 \div 2 = 15$$

 $30 \div 3 = 10$
 $15 \times 9 = 135$
 $10 \times 8 = 80$
 $135 - 80 = 55$
 $30 + 30 = 60$

- 11) a) $\frac{600}{2400} \times 100\% = 25\%$
 - b) $\frac{5}{16}$
 - c) 2400 600 750 = 1050

 Sum of amount spent on rent and transport is 1050. The amount of rent must be between 600 and 750. Both amount must be multiple of 10.

 For example: 610 and 440- Refer to back for all possible combination

12) a)
$$160 - 90 = 70$$
, June
b) $50 - 30 = 20$
 $\frac{20}{50} \times 100\% = 40\%$

13) a) \$11500 - \$3500 = \$8000 $$8000 \div 2 = 4000

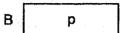
b)
$$$4000 + $3500 = $7500$$
 $$4000 + $3500 = 7500 $$7500 \div 3 = 2500 $$7500 \div 3 = 2500 $$4000 \times 3 = 12000 $4000 - 2500 = 1500$ $$4000 - $2500 = 1500 $$12000 - $7500 = 4500 $1500 = 30$ $$1500 \div 30 = 50$ $4000 = 80$ $4000 \div 80 = 50$

15) Method 1- Using fraction to find $\frac{1}{7}$.

Group A

В	u	30

Group B



$$\frac{1}{7} \rightarrow 30 - 18 = 12$$

$$\frac{4}{7} \rightarrow 12 \times 4 = 48$$

Method 2- Using units and parts/ cross multiplication

Group A

В	G	T
u + 30	u	2u + 30

Group B

В	G	Т
р	p + 18	2p + 18
u + 6	u+ 24	u+30

$$2u + 30 = 2p + 18$$

$$u + 6 = p$$

$$u + 6 = p$$

$$\frac{2u + 36}{2u + 24} = \frac{4}{3}$$

$$2 u = 12$$

$$u = 6$$

$$2 u + 36 = 48$$

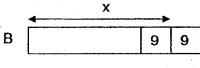
Method 3 – Using total for each group = 2x and cross multiplication

Group A

	4	X	
В		15	15

G

Group B



G

Let each group consists of 2x participants

	Α	В	Total
Boy	x + 15	x-9	2x + 6
Girl	x – 25	x+ 9	2x - 6
Total	2 x	2x	

Solving for x:

$$\frac{2x-6}{4x}=\frac{3}{7}$$

$$14x - 42 = 12 x$$

$$2x = 42$$

$$2x + 6 = 48$$

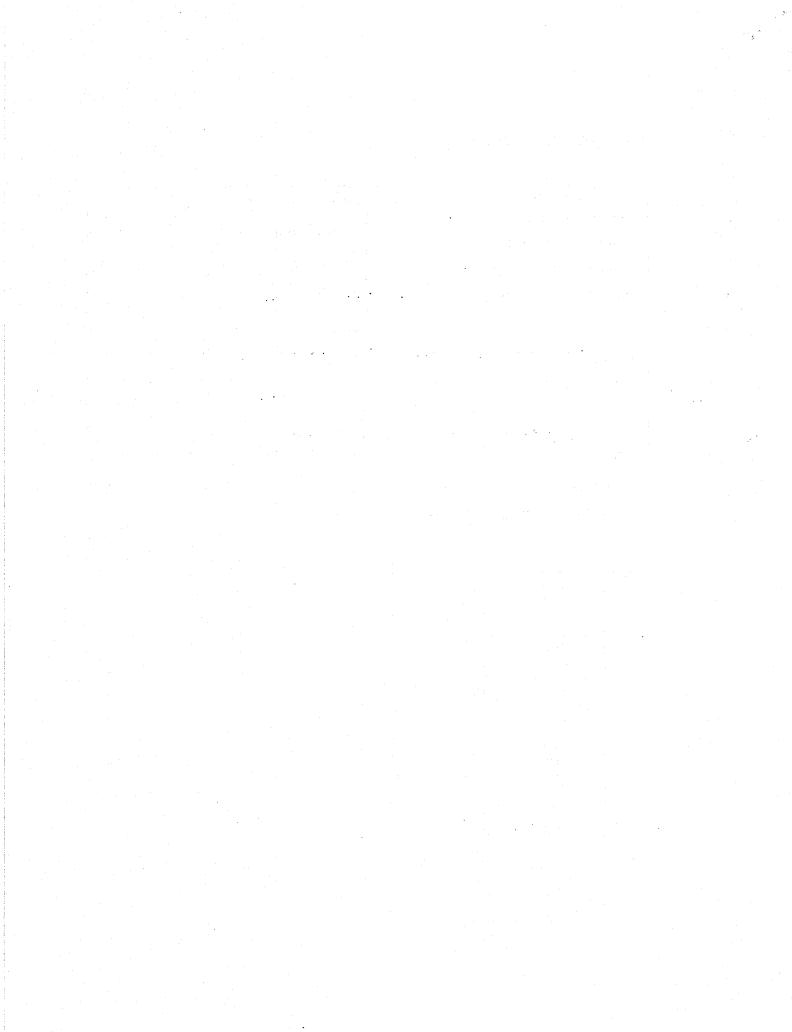
16) a) 54000 ÷ 1800= 30 cm

b) 30 x 30 = 900 1800 + 900 = 2700 54000 ÷ 2700 = 20 20 x 30 x 30 = 18 000 18 000 ÷ 3000 = 6 min	$3000 \div 900 = 3\frac{1}{3}$ $3000 \div 1800 = 1\frac{2}{3}$ $3\frac{1}{3} \times 6 = 20$ $1\frac{2}{3} \times 6 = 10$ 6 min
30 x 30 = 900 1800 ÷ 900 = 2	
$54 \div 3 = 18$ $18 \div 3 = 6$	

17) a) 9, 12, 21 b) 25 x 51 = 1275 or $\frac{1}{2}$ n² + $\frac{1}{2}$ n

11b)

610	440
620	430
630	420
640	410
650	400
660	390
670	380
680	370
690	360
700	350
710	340
720	330
730	320
740	310





PRELIMINARY EXAMINATION 2019

PRIMARY 6

MATHEMATICS PAPER 1 (BOOKLET A)

Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Answer Sheet (OAS)

INSTRUCTIONS TO PUPILS

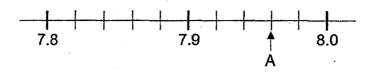
- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 5. The use of calculators is **NOT** allowed.

Name:	()
Class: Primary 6 (

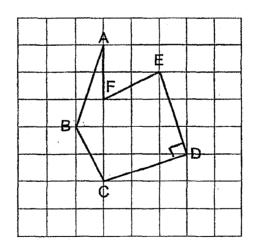
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

- 1 Round 895 547 to the nearest thousand.
 - (1) 895 000
 - (2) 895 500
 - (3) 896 000
 - (4) 900 000
- 2 2 tenths and 6 thousandths is _____
 - (1) 0.206
 - (2) 2.006
 - (3) 20.06
 - (4) 200.2

3 In the scale below, what is the value of A?

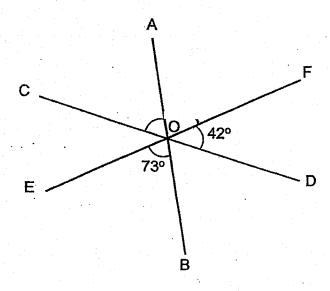


- (1) 8.2
- (2) 7.96
- (3) 7.95
- (4) 7.93
- 4 Which two lines in the square grid are perpendicular to each other?



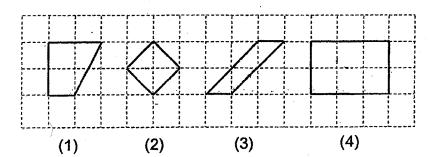
- (1) AB and BC
- (2) BC and CD
- (3) CD and DE
- (4) DE and EF

In the figure below, AOB, COD and EOF are straight lines. ∠DOF = 42° and ∠BOE = 73°. Find ∠AOC.



- (1) 42°
- (2) 65°
- (3) 73°
- (4) 115°

6 In the square grid below, which shape is a trapezium?



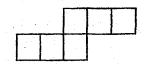
7 The figure below shows a cube.



Which of the following is a net of the cube?

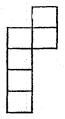
(1)

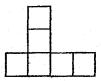
(2)



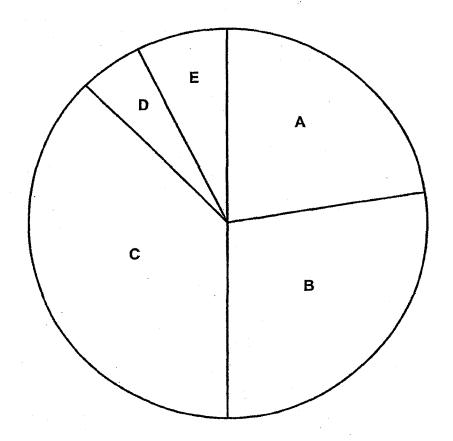
(3)

(4)





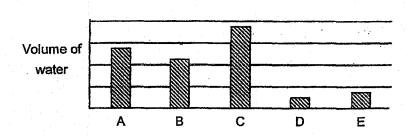
- 8 Find the value of r such that 4r-r=24.
 - (1) 24
 - (2) 12
 - (3) 8
 - (4) 4
- 9 The pie chart below shows the volume of water in containers A, B, C, D and E.



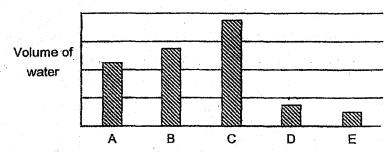
Refer to question and options on the next page.

Which bar graph best represents the information in the pie chart?

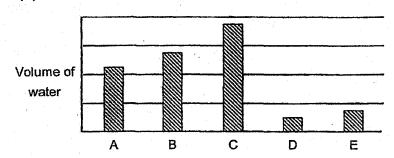
(1)



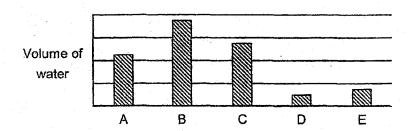
(2)



(3)



(4)



Which one of the following is likely to be the height of a vending machine in the school canteen?

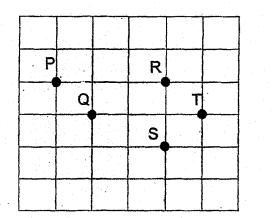


- (1) 20 m
- (2) 2 m
- (3) 20 cm
- (4) 2 cm

11 Which one of the following fractions is nearest to 1?

- (1) $\frac{2}{3}$
- (2) $\frac{3}{4}$
- $(3) \quad \frac{4}{5}$
- $(4) \frac{6}{7}$

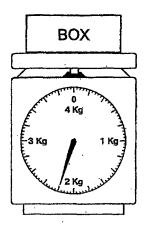
12 The square grid below shows the positions of points P, Q, R, S and T.



Which of the following statements is true?

- (1) Point S is north of Point R.
- (2) Point T is west of Point Q.
- (3) Point Q is south-east of Point P.
- (4) Point P is north-west of Point S.

13 What is the reading shown on the weighing scale below?



- (1) 2.01 kg
- (2) 2.02 kg
- (3) 2.1 kg
- (4) 2.2 kg
- The height of Ashley is $\frac{2}{3}$ of the height of Zheng Xin. The ratio of the height of Zheng Xin to that of Chloe is 4:5. Find the ratio of the height of Chloe to the total height of Zheng Xin and Ashley.
 - (1) 3:4
 - (2) 4:3
 - (3) 4:15
 - (4) 15:4

15 The first 22 numbers of a number pattern are given below.

Find the sum of the first 48 numbers in the number pattern.

- (1) 85
- (2) 86
- (3) 87
- (4) 88



PRELIMINARY EXAMINATION 2019

PRIMARY 6

PAPER 1 (BOOKLET B)

Total Duration for Booklets A and B: 1 hour

INSTRUCTIONS TO PUPILS

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Write your answers in this booklet.
- 5. The use of calculators is **NOT** allowed.

Name:		()
Class: Primary 6 ()		

Booklet B

/ 25

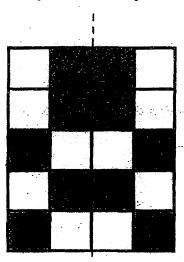
Any query on marks awarded should be raised by <u>2 September 2019</u>. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Questions 16 to 20 carry 1 mark each. Write y provided. For questions which require units, giv stated.	
16 Amanda had 2 m of ribbon at first. She What fraction of the ribbon did she use?	used 80 cm of the ribbon.
Ans:	
17 Express 6.04 kilograms in grams.	

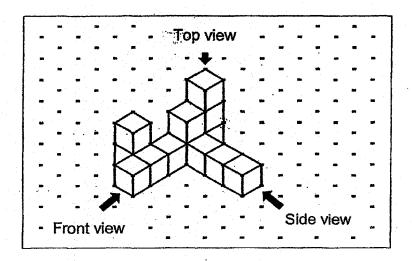
Ans:

g

The figure is made up of identical squares. Shade two more squares so that the figure has exactly one line of symmetry.



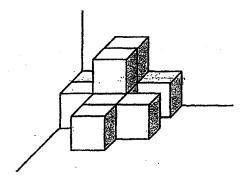
Johnson stacked 13 unit cubes and glued them together to form the solid below.



Draw the side view of the solid on the grid below.

Side View

The solid below is formed by unit cubes. How many unit cubes are there?



Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

21 Write down the common multiple of 3 and 5 that is nearest to 27

Ans:		
/ ti 13.	 	

- 22 A wallet costs \$30.40. A belt costs \$16.60 less than the wallet.
 - (a) Find the cost of the belt.
 - (b) Find the cost of 40 such wallets.

Ans: (a) \$_____

(b) \$____

23	The opening hou	rs of a shop are shown below.	How long is the shop
	open each day?	Give your answer in hours and	minutes.

The Precious Bear Shop Open Daily 10.30 a.m. to 5.45 p.m.

Ans:	h	 min

There were 500 people at a food fair on Monday. On Tuesday, there were 400 people at the food fair. What was the percentage decrease in the number of people who went to the food fair from Monday to Tuesday?

Ans: _____%

Mrs Tham bought 2780 beads to make some necklaces. She used 9 beads for each necklace. What was the greatest number of such necklaces made by Mrs Tham?

Ans: _____

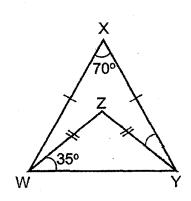
26 Andy has $\frac{1}{2} \ell$ of oil. He has $\frac{1}{5} \ell$ less oil than Mei Yan. How much oil does Mei Yan have?

Ans: _____

27 Mr Chan packs $\frac{3}{4}$ kg of curry powder into small packets Each small packet contains $\frac{1}{8}$ kg of curry powder. How many small packets of curry powder are there?

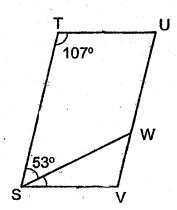
Ans: _____

In the figure below, WXY and WZY are isosceles triangles. WX = YX and WZ = YZ. \angle WXY = 70° and \angle YWZ = 35°. Find \angle XYZ.



Ans: _____

In the figure below, STUV is a parallelogram.∠STU = 107° and ∠TSW = 53°. Find ∠VSW.



Ans: "

30 The length and breadth of a rectangle are 3y metres and (y + 1) metres respectively. Find its perimeter given that y = 5.

Ans: _____ m



PRELIMINARY EXAMINATION 2019

PRIMARY 6

MATHEMATICS PAPER 2

Duration: 1 hour 30 minutes

INSTRUCTIONS TO PUPILS

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Write your answers in this booklet.
- 5. The use of an approved calculator is expected, where appropriate.

Name:	()	
Class: Primary 6 ()		
Parent's Signature:	Booklet A	/ 20
	Booklet B	/ 25
	Paper 2	/ 55
	Total	/ 100

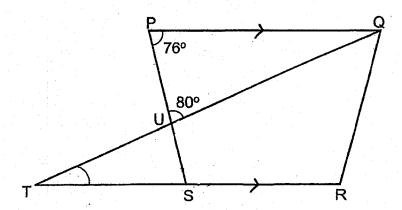
Any query on marks awarded should be raised by <u>2 September 2019</u>. We seek your understanding in this matter as any delay in the confirmation of marks $\hat{\text{will}}$ lead to delays in the generation of results.

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks) Adele has n albums. Benjamin has 5n albums. Adele has 8 fewer 1 albums than Benjamin. How many albums does Adele have? Tap A takes 36 minutes to fill a tank completely. Tap B takes 72 2 minutes to fill the same tank completely. How many minutes will Tap A and Tap B take to fill the tank completely when they are turned on at the same time?

Ans:

The average number of books that Ada, Baba and Cindy have is 17 Cindy has 21 books. Baba has more books than Ada. At most, how many books does Ada have?
Ans:

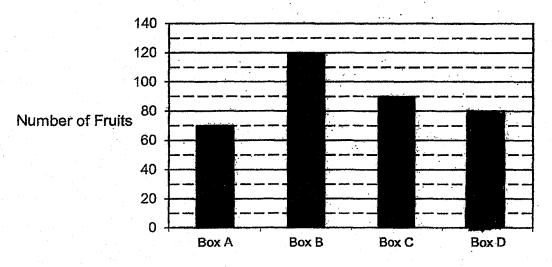
In the figure below, PQRS is a trapezium. TUQ and TSR are straight lines. PQ // SR. ∠PUQ = 80° and ∠QPU = 76°. Find ∠STU.



Ans:

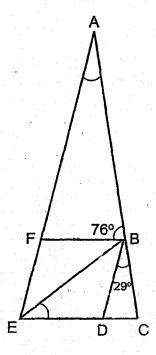
For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

6 Mdm Ler has 4 boxes of fruits, Box A, Box B, Box C and Box D. The bar graph below shows the number of fruits in each box. The bar representing Box D has not been drawn.



- (a) How many more fruits are there in Box C than Box A?
- (b) Box B contains only pears and oranges. There are 4 more pears than oranges in Box B. How many oranges are there in Box B?
- (c) The total number of fruits in the 4 boxes is 360. Find the number of fruits in Box D.

7 In the figure below, BDEF is a rhombus. ACE is a triangle. $\angle ABF = 76^{\circ}$ and $\angle DBC = 29^{\circ}$.

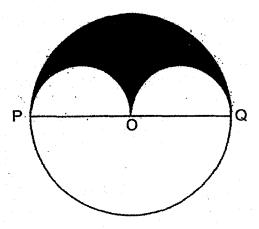


- (a) Find ∠BED.
- (b) Find ∠EAC.

Ans: (a) _____[2]

(b) [2]

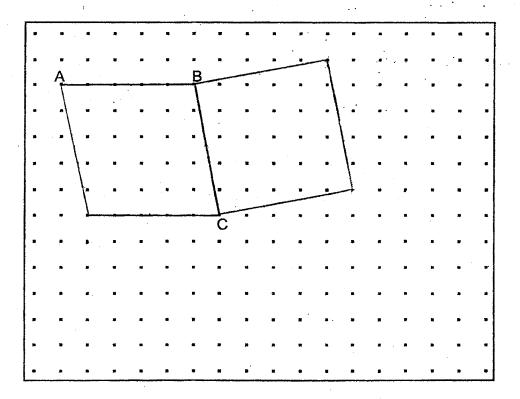
The figure below shows a large circle and two identical small semicircles. The diameter of the large circle, POQ, is 24 cm.



- (a) Find the perimeter of the shaded part.

 Τακεπ=3.14
- (b) Find the total area of the unshaded parts. Take $\pi = 3.14$.

- In the square grid below, AB and BC form two sides of a parallelogram ABCD. Each side is drawn by joining dots on the square grid with a straight line. In the same way,
 - (a) complete the drawing of parallelogram ABCD. [1]
 - (b) Using the given line BC, complete the drawing of square BCEF such that it does not overlap parallelogram ABCD. [2]



At a sports shop, each basketball cost \$23.60 and each football cost \$36.40. Mr Chong bought 3 times as many basketballs as footballs. He spent \$550.40 more on the basketballs than the footballs. How many footballs did Mr Chong buy?

Ans: [3]

There are some children in a hall. $\frac{5}{9}$ of them are boys. The girls are divided equally into 11 groups. The total number of girls is fewer than 60. There are 6 boys who wear spectacles. How many boys do not wear spectacles?

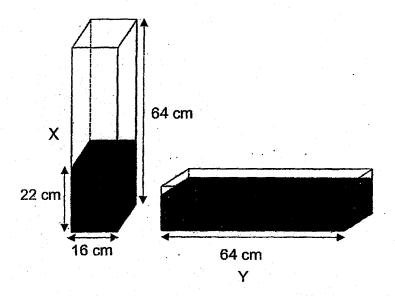
Ans: [3]

Da Ren has 10 candies. Elijah has 30 candies. Faith has 4 fewer candies than the average number of candies that Da Ren, Elijah and Faith have. How many candies do they have altogether?

Ans:	[3]

At 7 a.m., Cyclist A left Town M for Town N. At 8 a.m., Cyclist B left Town M for Town N. Cyclist A travelled at a constant speed of 15 km/h and Cyclist B travelled at a constant speed of 10 km/h. Both cyclists did not change their speeds throughout. After arriving at Town N, Cyclist A immediately left Town N for Town M. Cyclist A and Cyclist B passed each other at 11 a.m. At what time did Cyclist B arrive at Town N?

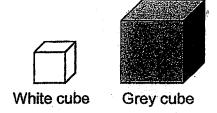
14 In the figure below, X and Y are identical rectangular tanks. X has a square base of side 16 cm and a height of 64 cm.



At first, X was completely filled with water and Y was empty. John poured the water from X to Y, without spilling, until the height of the water level in X became 22 cm.

- (a) How much water was there in Y in the end?
- (b) Find the height of water in Y in the end.

The figure below shows a grey cube and a white cube. The length of each edge of the grey cube is twice that of the white cube. Xin Neng wants to use 5 grey cubes and the least number of white cubes to build a new cube.



- (a) How many white cubes does Xin Neng need to build the new cube?
- (b) Given that the volume of the new cube is 1728 cm³, find the length of the edge of the white cube.

Ans:	(a)	[2
	(b)	 [2

16 The table below shows the number of pens in each type of bag.

Type of bag	Number of pens per bag		
Red	40		
Blue	50		
Green	60		

- (a) Mdm Ng has a total of 8 red and green bags. Find the smallest possible difference between the total number of pens in Mdm Ng's red bags and the total number of pens in her green bags.
- (b) Mr Lee has some red and some blue bags. The ratio of the total number of pens in Mr Lee's red bags to the total number of pens in his blue bags is 6:5. Express the number of his blue bags as a fraction of the total number of his bags.

Ans:	(a)	-		 [2]
	(b)		 · · · · · ·	 [2]

- Joong Ki, Minho and Ali have some green and some red buttons. Joong Ki has 9 more buttons than Minho. Minho has 5 more green buttons than Joong Ki. The ratio of the number of red buttons that Joong Ki has to the number of red buttons that Minho has is 5:3. The ratio of the number of green buttons to red buttons Ali has is 3:1.
 - (a) How many red buttons do Joong Ki and Minho have altogether?
 - (b) Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick () to indicate your answer.

	True	False	Not possible to tell
Ali has 11 more green buttons than red buttons.			
The total number of buttons that Joong Ki, Minho and Ali have is an odd number.			

[2]

Ans: (a) _		[3]
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SCHOOL: NANYANG PRIMARY SCHOOL LEVEL: PRIMARY 6

SUBJECT: MATH

TERM :

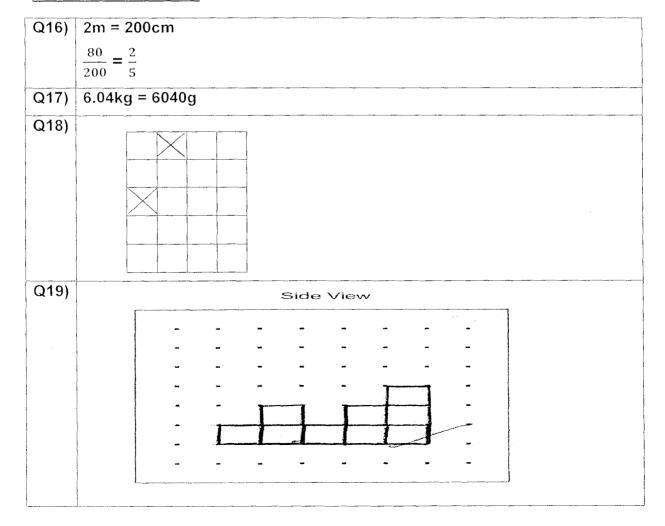
2019 PRELIM

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	1	2	3	2	1	1	3	3	2

1	Q 11	Q12	Q13	Q14	Q15
	4	3	4	1	4

PAPER 1 BOOKLET B



Q20)	10	
Q21)	30	
Q22)	a)\$30.40 - \$16.60 = \$13.80	
	b)\$30.40 x 40 = \$1216	
Q23)	7h 15min	
Q24)	500 - 400 = 100	
	$\frac{100}{500}$ x 100 = 20%	
Q25)	$2790 \div 9 = 308$	
Q26)	$\frac{1}{2} + \frac{1}{5} = \frac{5}{10} + \frac{2}{10} = \frac{7}{10}l$	
Q27)	$\frac{3}{4} = \frac{24}{32}$	
	$\frac{1}{2} = \frac{4}{2}$	
	8 32	
000)	24 ÷ 4 = 6	
Q28)	∠ZWY =∠ZYW	
	180° – 70° = 110°	
	110° ÷ 2 = 55°	
	55° – 35° = 20°	
Q29)	$180^{\circ} - (107^{\circ} + 53^{\circ}) = 20^{\circ}$	
Q30)	$5 \times 3 = 15$	
	5 + 1 = 6	
}	6 x 2 = 12	
	15 x 2 = 30	
	30 + 12 = 42m	

PAPER 2

Q1) A: B
1:5

$$5-1=4$$

 $8 \div 4=2$
Q2) A B
 $36 \text{min} \rightarrow \tan k$ $72 \text{min} \rightarrow \tan k$
 $1 \text{min} \rightarrow \frac{1}{36} \tan k$ $1 \text{min} \rightarrow \frac{1}{72} \tan k$
In $1 \text{min} \rightarrow A+B = \frac{1}{36} + \frac{1}{72} = \frac{2}{72} + \frac{1}{72} = \frac{3}{72}$
 $= 72 \div 3 = 24 \text{ min}$

Q3)	17 x 3 = 51
	51 – 21 = 30
	30 ÷ 2 = 15
	15 – 1 = 14
Q4)	$\frac{101.8}{100} \times \$50000 = \$50900$
	100 x \$50000 - \$50900
Q5)	∠PSR = 180° – 76° = 104°
	∠QUS = 180° – 80° = 100°
	$\angle STU = 180^{\circ} - 80^{\circ} - 76^{\circ} = 24^{\circ}$
00)	L
Q6)	a)90 – 70 = 20 fruits
	b)120 - 4 = 116
	116 ÷ 2 = 58 oranges
ŀ	c)70 + 90 + 120 = 280
	360 – 280 = 80fruits
Q7)	a)180° - (76° + 29°) = 75°
ļ	$75^{\circ} \div 2 = 37.5^{\circ}$
	b)37.5° x 2 = 75°
	180° – 75° = 105°
	180° – 105° = 75°
	180° – 75° – 76° = 29°
00)	
Q8)	a)24 x 3.14 x $\frac{1}{2}$ = 37.68
	24 ÷ 2 = 12
	12 x 3.14 = 37.68
	37.68 + 37.68 =75.36 cm
	b)12 x 12 x 3.14 $x \frac{1}{2}$ = 226.08
	12 ÷ 2 = 6
]	6 x 6 x 3.14 = 113.04
	113.04 + 226.08 = 339.12cm ²
00)	113.04 + 220.06 - 333.126111
Q9)	
	A
	* * * *
	0
1	

Q10)	\$23.60 x 3 = \$70.80
α.υ,	\$70.80 - \$36.40 = \$34.40
	\$550.40 ÷ \$34.40 = 16 footballs
Q11)	44 ÷ 4 = 11
Q, 1,	$11 \times 5 = 55$
	55 - 6 = 49 boys
Q12)	30 – 4 = 26
G(12)	26 + 10 = 36
	36 ÷ 2 = 18
	18 x 3 = 54
012)	
Q13)	10 x 3 = 30 15 x 4 = 60 4h 8a.m. 12p.m. 12.30p.m.
	60 + 30 = 90 $90 \div 2 = 45$
	. · ·
	$45 \div 10 = 4\frac{1}{2}h$ ANS: 12.30p.m.
Q14)	a) $64 - 22 = 42$
	42 x 16 x 16 = 10752
	10752cm³→ 10.752
	b)10752 ÷ 64 ÷ 16 = 10.5cm
Q15)	a) $2 \times 2 \times 2 = 8$
	8 x 3 = 24 cubes
	3/4=0
	b) $\sqrt[3]{1728}$ = 12 12 ÷ 2 = 6
	$6 \div 2 = 3$ cm
Q16)	a)40 x 5 = 200 b) R : B
	$60 \times 3 = 180$ (6×20) : (5×20)
	200 = 180 = 20
	$120 \div 40 = 3$
	$100 \div 50 = 2$
	$\frac{2}{3+2}=\frac{2}{5}$
045	
Q17)	a)9 + 5 = 14 $5 - 3 = 2$
	14 ÷ 2 = 7
-	7 x 8 = 56 red buttons
	b)
	True False Not
	V



RAFFLES GIRLS' PRIMARY SCHOOL PRELIMINARY EXAMINATION MATHEMATICS (PAPER 1) PRIMARY 6

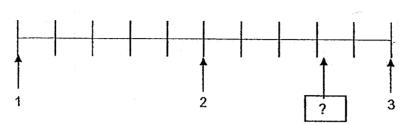
Name:	()
Form Class: P6	Math Teacher :
Date: 21 Aug 2019	Duration: 1 hour
Your Paper 1 Score (Out of 45 marks)	
Your Paper 2 Score (Out of 55 marks)	
Your Total Score (Out of 100 marks)	
Parent's Signature	• .

INSTRUCTIONS TO CANDIDATES

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer ALL questions and show all working clearly.
- 4. NO calculator is allowed for this paper.

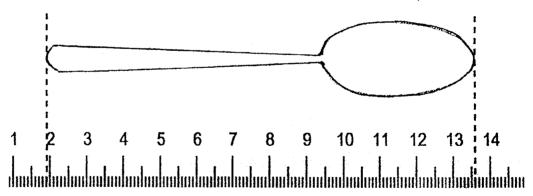
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale. (20 marks)

1.



What is a possible number in the box?

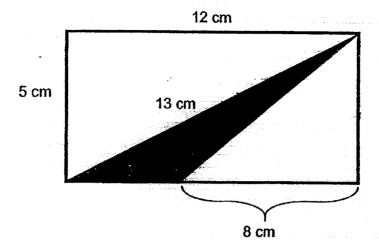
- (1) 2.35
- (2) 2.55
- (3) 2.63
- (4) 2.75
- 2. What is the length of the spoon?



- (1) 1.9 cm
- (2) 11.7 cm
- (3) 12.7 cm
- (4) 13.6 cm

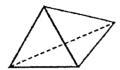
3.	Which digit in 107 438 is in the ten thousands place?
	(1) 1
	(2) 0
	(3) 3
	(4) 4
4.	Round 10 989 to the nearest hundred.
	(1) 10 900
	(2) 10 990
	(3) 11 000
	(4) 11 090
5.	Alex, Ben, Carl and Den shared a cake. Alex ate $\frac{1}{5}$ of the cake. Ben ate $\frac{3}{10}$
	of the cake. Carl ate $\frac{1}{3}$ of the cake while Dan ate the remaining cake. Who ate the largest portion of the cake?
	(1) Alex .
	(2) Ben
	(3) Carl
	(4) Dan

6. Find the area of the shaded triangle.



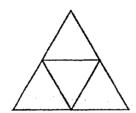
- (1) 10 cm²
- (2) 20 cm²
- (3) 30 cm²
- (4) 32.5 cm²
- 7. Mary and Sally had an equal number of stamps. Mary gave $\frac{3}{7}$ of her stamps to Sally. What was the ratio of Sally's number of stamps to Mary's number of stamps in the end?
 - (1) 10:7
 - (2) 10:3
 - (3) 7:3
 - (4) 5:2

8. The solid has 4 triangular faces.

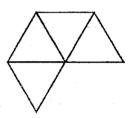


Which of the following nets can be folded to form this solid?

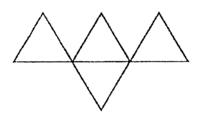
(Å)



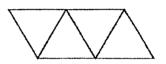
(B)



(C)



(D)



- (1) A and B only
- (2) B and C only
- (3) A and D only
- (4) B and D only

9. The table shows the number of toys produced at a factory from Monday to Saturday.

:	Day	Number of toys produced
	Monday to Friday	3k per day
	Saturday	4k-5

What was the total number of toys produced from Monday to Saturday? Express your answer in terms of k in the simplest form.

- (1) 7k-5
- (2) 15k
- (3) 19k
- (4) 19k 5

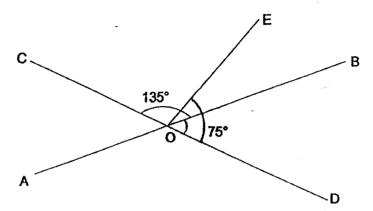
10.



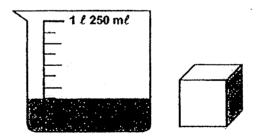
The length of 1 paper clip is 0.018 m. What is the length of the pencil?

- (1) 0.072 cm
- (2) 0.72 cm
- (3) 7.2 cm
- (4) 72 cm

11. In the figure, AOB and COD are straight lines. ∠COB = 135° and ∠EOD = 75°. Find ∠EOB.



- (1) 30°
- (2) 45°
- (3) 90°
- (4) 105°
- 12. What is the total volume when the 6-cm metal cube is placed in the container?



- (1) 216 cm³
- (2) 375 cm³
- (3) 516 cm³
- (4) 591 cm³

- 13. 30% of Tom's savings is equal to 25% of Mary's savings. What percentage of Tom's savings is Mary's savings?
 - (1) $33\frac{1}{3}\%$
 - (2) $83\frac{1}{3}\%$
 - (3) 120%
 - (4) 300%
- 14. The table shows the exchange rate for Singapore dollar and US dollar.

1 Singapore dollar (SGD) = 0.70 US dollar (USD)

How many Singapore dollars will I need to exchange for 1400 US dollar?

- (1) 700 SGD
- (2) 980 SGD
- (3) 1400.30 SGD
- (4) 2000 SGD
- 15. A box can fit exactly 8 large cubes, 64 medium cubes, or 512 small cubes. 3 large cubes, 32 medium cubes and some small cubes are put into such a box. What is the greatest possible number of small cubes that can fit into the box?
 - (1) 64
 - (2) 128
 - (3) 192
 - (4) 256

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. (5 marks) What is the answer in the box? 16. $10\frac{5}{7} = \frac{56}{7} +$ Leave your answer as an improper fraction. Ans:_____ Evaluate $48 \times (8 - 4 \times 2)$. 17. Ans: _____ When it is 10 a.m. in Singapore, it is 4 a.m. in South Africa on the same 18. day. What time would it be in Singapore when it is 11.30 a.m. in South Africa? Give your time in 24-hour clock.

Ans: _____

19.	A number is 0.50 when rounded to the nearest hundredth. What is the smallest possible number?
	Ans:
20.	Find the value when 1.099 is subtracted from 3.
	Ans:
	•

Questions 21 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. (20 marks)					
21. What is the answer in the box? 24 x 189 = 24 x 140 + 24 x					
Ans:					
22. A painter has 2 ℓ of red paint. He used $\frac{1}{5}$ of it to mix with $\frac{2}{3}\ell$ of blue paint get some purple paint. How much purple paint did he get?	ł O				
Ans:	{				

Ł

23.	Mr Tan deposited \$4000 in a fixed deposit account at ABC Bank at an interes rate of 1.5% per year. What was the amount of the interest earned in one year?
	Ans: \$
•	
24.	Muthu had $9p$ sweets. He gave 5 sweets to each of his three friends and packed the remaining sweets equally into 3 packets. How many sweets were there in each packet? Give your answer in terms of p in the simplest form.
	•
	Ans:

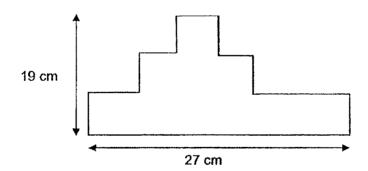
25. Randy has 4 boxes of marbles. The number of marbles in each of the boxes is shown in the table.

Box	Number	
A	27	
В	19	
C	25	
D	26	

Which box should he remove so that the average number of the marbles in the remaining boxes is 24?

Ans: Box _____

26. Find the perimeter of the figure.

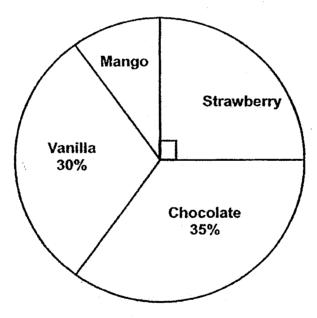


Ans: _____ cm

27. In a 4 by 100 m relay, Rani completed the first 100 m in 10 s, Eunice completed the second 100 m in 15 s, Joyce completed the third 100 m in 13 s and Siti completed the last 100 m in 12 s. What was the average speed of the 4 children for the relay?

Ans:		m	V	S
------	--	---	---	---

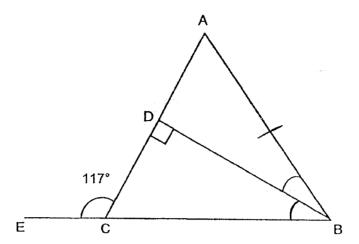
28. A group of children was asked to name their favourite flavour of ice-cream. The pie chart shows their preference.



The number of children who liked chocolate and strawberry ice-cream was 42 more than the number of children who liked vanilla ice-cream. How many children liked mango ice-cream?

Ans:	
/ W 10.	

29. In the figure, ABC is an isosceles triangle with BC = BA. BE is a straight line. ∠DCE =117°. Find ∠ABD.



Ans: ____

30. The number of stickers Kevin had was $\frac{1}{4}$ more than the number of stickers John had. After Kevin gave 96 stickers to John, John had twice as many stickers as Kevin. How many stickers did John have at the end?

Ans:

End of Paper

	-			
	*			
		-		
2 - 1				



RAFFLES GIRLS' PRIMARY SCHOOL PRELIMINARY EXAMINATION MATHEMATICS (PAPER 2) PRIMARY 6

Name:	(.)
Form class: P6	Math Teacher :
Date: 21 Aug 2019	Duration: 1 h 30 min

INSTRUCTIONS TO CANDIDATES

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer ALL questions and show all working clearly.
- 4. The use of calculator is allowed for this paper.

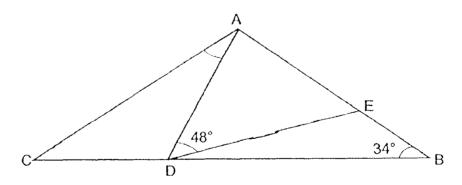
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale. (10 marks)

1. John had a collection of local and foreign stamps. The ratio of the number of local stamps to the number of foreign stamps he had at first was 7:3. After giving away 46 foreign stamps, the ratio of the number of local stamps to the number of foreign stamps became 5:2. How many foreign stamps did John have in the end?

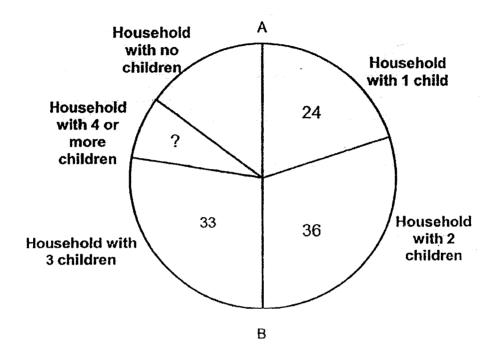
Ans	•			
, 1110	٠			

2. In the figure, ABC is an isosceles triangle with AC = AB, \angle ABD = 34°. AD = AE with \angle ADE = 48°. Find \angle CAD.



Ans:	0
MIIS.	

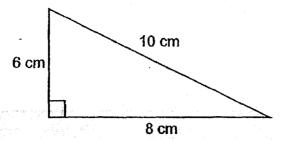
3. A survey was conducted on the number of children in each household within a block of flats. The pie chart shows the results of the survey. AB is a straight line.



The number of household with 2 children was twice the number of household with no children. Express the number of household with 4 or more children as a fraction of the total number of household. Give your answer in the simplest form.

Ans	٠	
7115	٠	

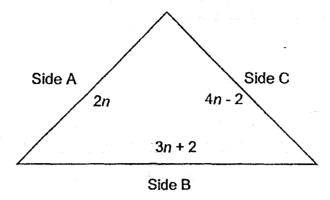
4. Terence had a length of wire. He used the wire to make the triangle as shown.



With the same wire, he used the entire length to make a square. What was the percentage increase in the area of the square compared to the area of triangle?

Ans	•	%

5. The figure below is a triangle with sides A, B and C.



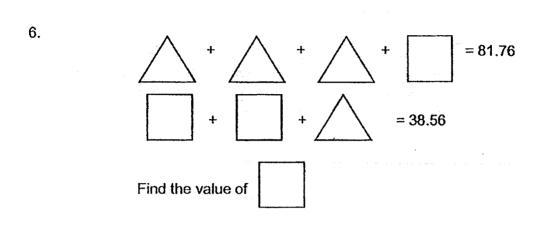
Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick(\checkmark) to indicate your answer.

Statement	True	False	Not possible to tell
a) The length of side B is longer than the length of side A.			
b) The figure is an isosceles triangle as length of side A is equal to length of side C.			
c) The perimeter of the triangle is (9n + 4) unit.			

For questions 6 to 17, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in the brackets [] at the end of each question or part-question.

All diagrams are not drawn to scale.

(45 marks)

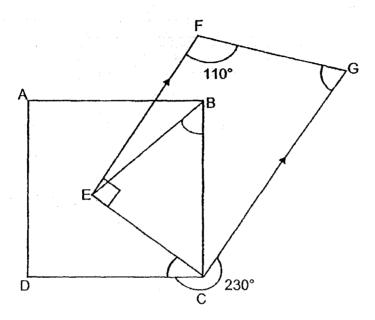


Ans:[3	}]
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7. Ella and May had \$358 altogether. Ella and Kevin had \$698 altogether. Kevin had 5 times as much money as May. How much did Ella have at first?

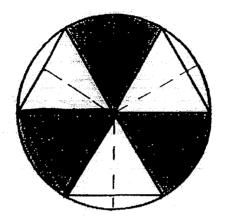
Ans: _____[3]

- 8. In the figure, ABCD is a square and EFGC is a trapezium. CE = BE, ∠EFG = 110° and ∠DCG = 230°.
 - (a) Find ∠FGC.
 - (b) Find ∠CBE.



Ans: (a) [1	1		
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9. The figure is made up of a circle and three equilateral triangles of side 18 cm. Find the perimeter of the shaded parts. Take $\pi = 3.14$.

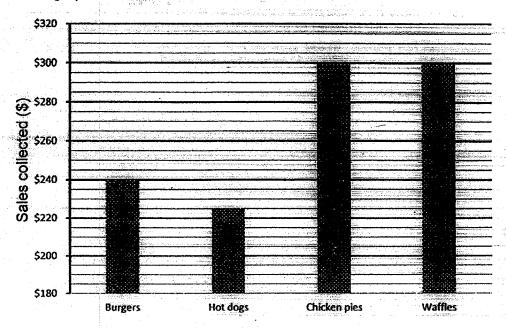


Ans:____[3]

10. Valerie had 40% more books than Isabelle. After Valerie bought some books, her number of books increased by 25%. Isabelle gave away 25% of her books. In the end, both the girls had 750 books altogether. How many books did Valerie have at first?

[3]

11. The bar graph shows the sales of four food items at a fun fair.



The table shows the prices of the food items.

Type of food items	Price per item
Burger	\$5
Hot dog	\$3
Chicken pie	\$4
Waffles	\$3

- (a) The quantity for two of the food items sold was the same. Which were the two food items?
- (b) What percentage of the food items sold were burgers? Leave your answer to the nearest 1 decimal place.

											100
Ans: (10					and					121
M115. (a)	regular to the	- 1	-	1.0	and		40.00	200	1997	[4]

12. The table shows the charges for electricity consumption by ABC company.

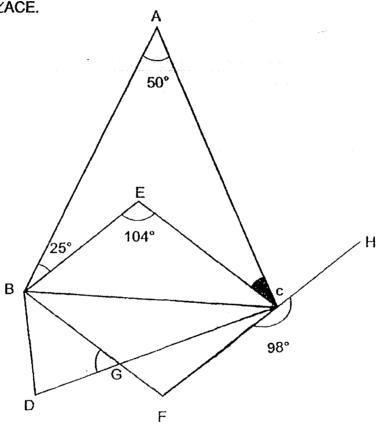
Charges per kW				
\$0.55				
\$0.72				
\$0.88				

- (a) Mrs Tan's family used 50 kW of electricity in July. How much did her family pay for their electricity consumption?
- (b) Mr Lee spent \$129.42 on electricity consumption in August. How many kilowatts of electricity did his family consume?

Ans: a)	[1]
b)	[3]

- 13. In the figure, ABC and BDC are triangles and BECF is a parallelogram. FH is a straight line, ∠GCH = 198°. ∠BEC = 104°, ∠BAC = 50° and ∠ABE = 25°.
 - (a) Find ∠DGB.

(b) Find ∠ACE.

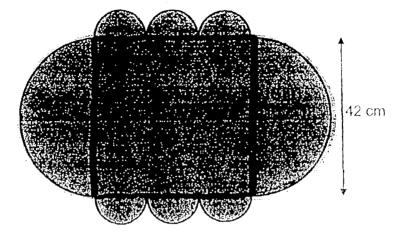


Ans: (a)		[2]
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14. The mass of a container which is $\frac{3}{5}$ filled with flour is 10.84 kg. When $\frac{1}{3}$ of the flour is removed, the mass of the container and the remaining flour is 8.5 kg. Find the mass of the container.

Ans: _____[4]

15. The figure is made up of a square of side 42cm, 2 identical big semicircles and 6 identical small semicircles.



- (a) What is the radius of each small semicircle?
- (b) Find the area of the figure. Take $\pi = \frac{22}{7}$.

- Ans: (a) _____ [1]
 - (b) _____[3]

- 16. At Station A, the number of children was $\frac{3}{5}$ of the number of adults on the MRT. At Station B $\frac{2}{9}$ of the adults and some children alighted from the MRT. The number of children became $\frac{3}{7}$ of the number of adults. At Station C, 98 adults and 358 children boarded the MRT and there was an equal number of adults and children.
 - (a) How many passengers were there on the MRT after Station C?
 - (b) How many children alighted at Station B?

Ans: (a)				
(b)	[4			

17.	Mr Wong bought a number of red, blue and green balloons. The ratio of the
	number of red balloons to the number of blue balloons was 5: 4 while the ratio
	of the number of blue balloons to the number of green balloons was 3:7. After
	bursting some green balloons and buying another 168 blue balloons, he found
	that there was a decrease of 25% in the total number of blue and green
	balloons. In the end, the number of red, blue and green balloons he had was
	1440.

a	How	many	balloons	did Mr	Wong	have	at first?

Ans: (a)	 [3
(h)	[2

SCHOOL: RAFFLES GIRLS' PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT: MATH TERM: 2019 PRELIM

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	2	2	3	3	1	4	3	4	3

Q 11	Q12	Q13	Q14	Q15
1	4	3	4	1

PAPER 1 BOOKLET B

$75 ext{ } 56 ext{ } 19$
$\frac{75}{7} - \frac{56}{7} = \frac{19}{7}$
$3 - 8 = 0$ $48 \times 0 = 0$
1730
0.495
1.901
1536 - 3360 = 1176
$1176 \div 24 = 49$
$\frac{1}{5} \times \frac{2}{1} = \frac{2}{5}$
$\frac{2}{5} + \frac{2}{3} = \frac{6}{15} + \frac{10}{15}$
5
$=\frac{16}{15}$
$=1\frac{1}{15}$
$4000 \div 100 = 40$
$40 \times 1.5 = 60$
0p-15
3
19x2=38
27×2=54
3 1 0 1 1 1 1 1 3 2 3

	54+38=92	
Q27)	100mx4=400m	
	10s+15s+13s+12s=50s	
	$400\text{m} \div 50s = 8m/s$	
Q28)	5u + 7u = 12u	
	12u - 6u = 6u	
:	$6u \rightarrow 42$	
	$1u \rightarrow 42 \div 6 = 7$	
	20u - 12u - 6u = 2u	
	$2u \to 2 \times 7 = 14$	
Q29)	180° – 117° = 63°	
	$180^{\circ} - 63^{\circ} - 90^{\circ} = 27^{\circ}$	
Q30)	5u - 3u = 2u	
	$2u \rightarrow 96$	
	$1u \rightarrow 96 \div 2 = 48$	
	$6u \rightarrow 48 \times 6 = 288$	

PAPER 2

```
15u – 14u = 1u
Q1)
         1u→46
         14u \rightarrow 46 \times 14 = 644
        180 - (34x2) = 112
Q2)
        180 - (48x2) = 84
        112 - 84 = 28^{\circ}
Q3)
        36 \div 2 = 18
        36 + 24 = 60
        60 - 33 - 18 = 9
         Total \rightarrow 60 x 2 = 120
        \frac{9}{120} = \frac{3}{40}
Q4)
        10 + 6 + 8 = 24 (total length of wire)
        24 \div 4 = 6 (1 side of square)
         \frac{1}{2} \times 6 \times 8 = 24
        6 \times 6 = 36
         36 - 24 = 12
        \frac{12}{24}x 100 = 50%
        a)True
Q5)
```

Q6) $3T + 19 \Rightarrow 81.76$ $1T + 29 \Rightarrow 38.56 \times 3 = 115.68$ $115.68 \Rightarrow 81.76 = 33.92$ $33.92 \div 5 = 6.784$ Q7) $E+M = 358$ $E+K = 698$ $698 - 358 = 340$ $5u - 1u + 4u$ $4u \Rightarrow 340$ $1u \Rightarrow 340 \div 4 = 85$ $358 - 85 = 273 Q8) $a)180^{\circ} - 110^{\circ} = 70^{\circ}$ $b)90^{\circ} - 40^{\circ} = 50^{\circ}$ Q9) $3.14 \times 36 = 113.04$ $18 \times 2 = 36$ $\frac{1}{100} \times 3.14 \times 36 = 28.26$ $28.26 \times 2 = 56.52$ $36 \times 3 = 108$ $108 + 56.52 = 164.52 \text{cm}$ Q10) $Valerie \Rightarrow \frac{25}{100} \times 140 = 35 \text{ (u)}$ $140u + 35u = 175u \text{ (end)}$ $15abelle \Rightarrow \frac{25}{100} \times 100u = 25u$ $100u - 25u = 75u$ $10u - 25u = 75u$ $10u + 25u = 250u$ $250u \Rightarrow 750$ $1u \Rightarrow 750 \div 250 = 3$ $140u \Rightarrow 140 \times 3 = 420$ Q11) $a)hot dog and chicken pies b)48 + 75 + 75 + 100 = 298$ $\frac{48}{298} \times 100 \approx 16.1\%$		b)Not possible to tell c)False
E+K = 698 698 - 358 = 340 5u - 1u = 4u $4u \rightarrow 340$ $1u \rightarrow 340 + 4 = 85$ 358 - 85 = \$273 Q8) a)180° - 110° = 70° b)90° - 40° = 50° Q9) 3.14 x 36 = 113.04 $18 \times 2 = 36$ $\frac{1}{4} \times 3.14 \times 36 = 28.26$ $28.26 \times 2 = 56.52$ $36 \times 3 = 108$ 108 + 56.52 = 164.52 cm Q10) Valerie $\Rightarrow \frac{25}{100} \times 140 = 35 \text{ (u)}$ 140u + 35u = 175u (end) Isabelle $\Rightarrow \frac{25}{100} \times 100u = 25u$ 100u - 25u = 75u Total (u) $\Rightarrow 75u + 175u = 250u$ $250u \Rightarrow 750$ $1u \Rightarrow 750 \div 250 = 3$ $140u \Rightarrow 140 \times 3 = 420$ Q11) a)hot dog and chicken pies b)48 + 75 + 75 + 100 = 298 $\frac{48}{298} \times 100 \approx 16.1\%$	Q6)	$1T + 2S \rightarrow 38.56 \times 3 = 115.68$ 115.68 - 81.76 = 33.92
Q8) $a)180^{\circ} - 110^{\circ} = 70^{\circ}$ $b)90^{\circ} - 40^{\circ} = 50^{\circ}$ Q9) $3.14 \times 36 = 113.04$ $18 \times 2 = 36$ $\frac{1}{4} \times 3.14 \times 36 = 28.26$ $28.26 \times 2 = 56.52$ $36 \times 3 = 108$ $108 + 56.52 = 164.52$ cm Q10) $Valerie \rightarrow \frac{25}{100} \times 140 = 35$ (u) $140u + 35u = 175u$ (end) $1sabelle \rightarrow \frac{25}{100} \times 100u = 25u$ $100u - 25u = 75u$ $Total (u) \rightarrow 75u + 175u = 250u$ $250u \rightarrow 750$ $1u \rightarrow 750 \div 250 = 3$ $140u \rightarrow 140 \times 3 = 420$ Q11) a)hot dog and chicken pies $b)48 + 75 + 75 + 100 = 298$ $\frac{48}{298} \times 100 \approx 16.1\%$	Q7)	E+K = 698 698 - 358 = 340 5u - 1u = 4u $4u \rightarrow 340$ $1u \rightarrow 340 \div 4 = 85$
18 x 2 = 36 $\frac{1}{4}$ x 3.14 x 36 = 28.26 28.26 x 2 = 56.52 36 x 3 = 108 108 + 56.52 = 164.52cm Q10) Valerie $\Rightarrow \frac{25}{100}$ x 140 = 35 (u) 140u + 35u = 175u (end) Isabelle $\Rightarrow \frac{25}{100}$ x 100u = 25u 100u - 25u = 75u Total (u) \Rightarrow 75u + 175u = 250u 250u \Rightarrow 750 1u \Rightarrow 750 \Rightarrow 250 = 3 140u \Rightarrow 140 x 3 = 420 Q11) a)hot dog and chicken pies b)48 + 75 + 75 + 100 = 298 $\frac{48}{298}$ x 100 \approx 16.1%	Q8)	a)180° – 110° = 70°
140u + 35u = 175u (end) Isabelle $\Rightarrow \frac{25}{100}$ x 100u = 25u 100u - 25u = 75u Total (u) \Rightarrow 75u + 175u = 250u 250u \Rightarrow 750 1u \Rightarrow 750 \div 250 = 3 140u \Rightarrow 140 x 3 = 420 Q11) a)hot dog and chicken pies b)48 + 75 + 75 + 100 = 298 $\frac{48}{298}$ x 100 ≈ 16.1%	Q9)	18 x 2 = 36 ½ x 3.14 x 36 = 28.26 28.26 x 2 = 56.52 36 x 3 = 108
Total (u) \rightarrow 75u + 175u = 250u 250u \rightarrow 750 1u \rightarrow 750 ÷ 250 = 3 140u \rightarrow 140 x 3 = 420 Q11) a)hot dog and chicken pies b)48 + 75 + 75 + 100 = 298 $\frac{48}{298}$ x 100 \approx 16.1%	Q10)	140u + 35u = 175u (end)
b)48 + 75 + 75 + 100 = 298 $\frac{48}{298} \times 100 \approx 16.1\%$		Total (u)→75u + 175u = 250u 250u→750 1u→750 ÷ 250 = 3
Q12) a)0.55 x 50 = \$27.50	Q11)	b)48 + 75 + 75 + 100 = 298
	Q12)	a)0.55 x 50 = \$27.50

```
b)129.42 - 27.50 = 101.92
           0.72 \times 100 = 72
           101.92 - 72 = 29.92
           29.92 \div 0.88 = 34
           100 + 34 + 50 = 184kw
Q13) | a | 198 - 180 = 18 (< GCF)
          180 - 104 - 18 = 58^{\circ} (< CGF)
        b)<EBD + <ECB \rightarrow 180 - 104 = 76
        <ACE\rightarrow180 - 50 - 76 - 25 = 29°
Q14) 10.84 - 8.5 = 2.34
        2.34 \times 2 = 4.68
        8.5 - 4.68 = 3.82kq
Q15) | a|42 \div 6 = 7cm
        b)\frac{22}{7}x 7 x 7 = 154
          154 \times 3 = 462
           42 \div 2 = 21
            \frac{22}{7}x 21 x 21 = 1386
           42 \times 42 = 1764
           Total \rightarrow 1764 + 1386 + 462 = 3612cm<sup>2</sup>
       a)15u + 358 = 358 + 98
Q16)
           358 - 98 = 35u - 15u
           20u = 260
           1u = 260 \div 20 = 13
           15u \rightarrow 13 \times 15 = 195
           195 + 358 = 553
           553 \times 2 = 1106
        b)27u - 15u = 12u
          12u \rightarrow 12 \times 13 = 156
Q17)
        a)28u + 12u = 40u
        \frac{25}{100} \times 40 = 10
          40u - 10u = 30u (now blue and green)
          30u + 15u = 45u
          45u→1440
          1u \rightarrow 1440 \div 45 = 32
          15u + 12u + 28u = 55u
          55u \rightarrow 55 \times 32 = 1760
        b)15u\rightarrow32 x 15 = 480 (red)
           12u \rightarrow 12 \times 32 = 384 \text{ (blue)}
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1440 - 480 - 384 - 168 = 408 $28u \rightarrow 32 \times 28 = 896$ 896 - 408 = 488

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RIVER VALLEY PRIMARY SCHOOL PRELIMINARY EXAMINATION 2019

MATHEMATICS PRIMARY SIX

Name	•	_()
Class	: Primary 6 ()	
Date	: 23 August 2019		
Duration	: 60 min (Total time for Booklets A and B)		

PAPER 1

(BOOKLET A)

INSTRUCTIONSTO CANDIDATES

- 1. Write your Name, Register No. and Class in the space above.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Shade your answers on the Optical Answer Sheet (OAS) provided.
- 6. You are <u>not</u> allowed to use a calculator.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

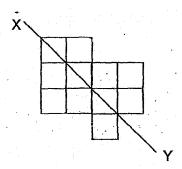
- 1. What is the value of 10 + 2000?
 - (1) 200
 - (2) 0.5
 - (3) 0.05
 - (4) 0.005
- 2. The length of a public bus in Singapore is about _____
 - (1) 12 cm
 - (2) 12 m
 - (3) 120 cm
 - (4) 120 m
- 3. How many eighths are there in $3\frac{1}{4}$?
 - (1) 13
 - (2) 24
 - (3) 25
 - (4) 26

4. The table below shows the programme guide for Nickadoo Channel.

Time	Programme
11 00	Mick Cat
11 45	Nature Whisper
12 50	Anna and Elsa (Movie)
14 15	Bob Cat

Elvis watched Nature Whisper and Anna and Elsa (Movie). How long did he spend watching both shows?

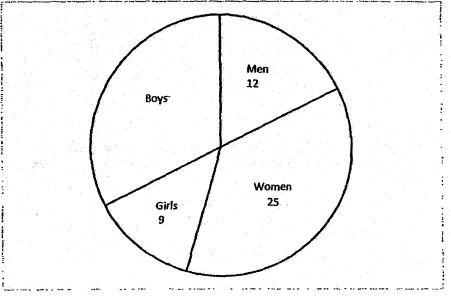
- (1) 1h5min
- (2) 1h 25 min
- (3) 1 h 50 min
- (4) 2 h 30 min
- 5. The figure below shows 11 squares. What is the smallest number of squares that must be added so that the line XY becomes a line of symmetry?



- (1)
- (2) 2
- (3) 3
- (4) 4

6.	Whic	of the following letters has both parallel and perpendicular lines?	
	(1)	M X	
	(2)	AX ·	
	(3)	r X	
	(4)	1	
7.		ginal price of a bag was \$120. Linda bought it at a discount of 209 uch did Linda pay for the bag?	%
	(1)	\$24	
	(2)	\$96	
	(3)	\$100	
	(4)	\$144	
÷			
8.		acing north-west at first. He then turned 225º anti-clockwise. Which would he be facing in the end?	ŀ
	(1)	North	
1	(2)	South	
	(3)	East	
	(4)	West	

9. The pie chart shows the number of people at a party. Half of them are girls and women. How many boys are there at the party?



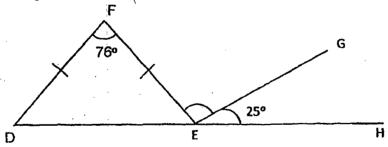
- (1) 16
- (2) 21
- (3) 22
- (4) 34

10. Razak read the timetable shown below for the train that leaves the MRT station for the airport.

Leaves MRT Station	Arrives at the airport
6.30 a.m.	7.15 a.m.
6.45 a.m.	7.30 a.m.
7.20 a.m.	8.05 a.m.
7.45 a.m.	8.30 a.m.
8,30 a.m.	9.15 a.m.

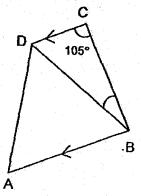
Razak wants to catch the latest train that will get him to the airport by 8.40 a.m. At what time does this train leave the MRT station?

- (1) 6.45 a.m.
- (2) 7.20 a.m.
- (3) 7.45 a.m.
- (4) 8.30 a.m.
- 11. In the figure below, DEF is an isosceles triangle. FD = FE. DEH is a straight line, ∠GEH(= 25° and ∠DFE = 76°. Find ∠FEG.



- (1) 104°
- (2) 103°
- (3) 77°
- (4) 52°

12. In the figure below, ABCD is a trapezium and ABD is an equilateral triangle. ∠BCD = 105°. Find ∠CBD.



- (1) 150
- (2) 45°
- (3) 60°
- (4) 750
- 13. The average mass of Alex, Ben and Charles is 49 kg. Alex is 9 kg heavier than Ben and 6 kg heavier than Charles. What is Charles' mass?
 - (1) 44 kg
 - (2) 45 kg
 - (3) 48 kg
 - (4) 50 kg

- James spent \$500 of his savings on Monday and $\frac{2}{5}$ of his remaining savings on Tuesday. After that, he found that he had $\frac{1}{3}$ of his original savings left. How much money did James spend on Tuesday?
 - (1) \$125
 - (2) \$250
 - (3) \$625
 - (4) \$1125
- 15. There is an equal number of stamps in Album A and Album B.
 The ratio of the number of local stamps to the number of foreign stamps in Album A is 3 : 2. In Album B, ⁴/₁₅ of the stamps are local stamps while the rest of the stamps are foreign stamps.
 What is the ratio of the total number of local stamps to the total number of
 - (1) 7:13

foreign stamps in both albums?

- (2) 13:7
- (3) 13:17
- (4) 17:13
- End of Booklet A -

RIVER VALLEY PRIMARY SCHOOL PRELIMINARY EXAMINATION

2019

MATHEMATICS

PRIMARY SIX

Name :	()
Class : Primary 6 ()	
Date : 23 August 2019		
Duration: 60 min (Total time	e for Booklets A and B)	
	PAPER 1 (BOOKLET B)	
INSTRUCTIONSTO CANDIDATE	<u>s</u>	
1. Write your Name, Registe	r No. and Class in the space at	oove.
2. Do not turn over this page	e until you are told to do so.	

3. Follow all instructions carefully.

- 4. Answer all questions.
- 5. You are not allowed to use a calculator.

SUMMARY OF MARKS:

			Questions	Marks Awarded	Maximum Marks
Paper	Booklet A	MCQ	1 – 15		20
1	Booklet B	SAQ	16 – 30		25
Paper		SAQ	1-5		10
2		LAQ	6 - 17		45
		Total			100

Parent's Signature :				
	1			



Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

16.	Write down all the common multiples of 4 and 9 that are smaller than 80.	Do not write in this space
	Ans:	[
17.	Express 2.66 kilometres in metres.	
	Ans:m	
	andre et al. Elektrick in in in in in in in in in in in in in	
18.	Express $\frac{6}{7}$ as a decimal. Round off your answer to 2 decimal places.	
• .		
	Ans:	

Do not write in this space 19. The figure is formed by 3 straight lines. What is the value of ∠a. 121° 20. The figure is made up of 5 identical squares. What percentage of the figure is shaded?

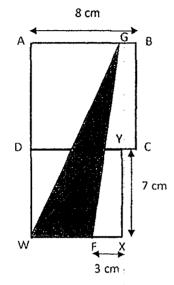
Ans: _

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

21. Alice was g	iven an allow	ance of \$350	a month. Sh	ne spent $\frac{4}{7}$ of h	Do not write in this space
allowance e	ach month. Ho	ow much did	she spend ea	ch month?	
er en en graf byd ar en en en en en en en en en en en en en					
		,			
			Ans:\$	•	
The second secon			/ υιο . Ψ		- L
22. A rectangula	ar tank measui	ing 50 cm by	30 cm by 20	cm is $\frac{2}{5}$ filled w	<i>i</i> ith
water. How	many litres of	water are the	ere in the tank	(?	
		•			
			Ans:	litres	

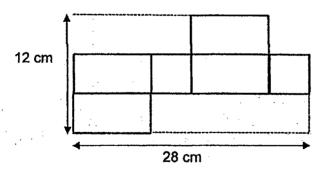
23. The figure below is made up of 2 squares, ABCD and DWXY.
GWF is a triangle. Find the area of the <u>unshaded</u> parts of the figure.

Do not write in this space



Ans: cm²

24. The figure shows the net of a cuboid. The cuboid has a square base. Find the volume of the cuboid.



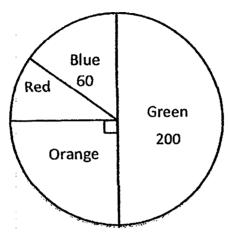
Ans:

_cm³

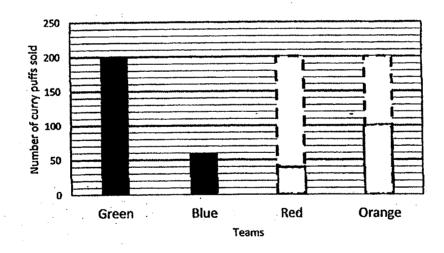
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Rec	tangi	e WXY	rz is ma	ide up (of 6 IGE	ntical sma cm. What	il rectand	gies. In	e	· -
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27. The pie chart below shows the number of curry puffs sold by 4 teams in a carnival. The Green team sold half of the total number of curry puffs.

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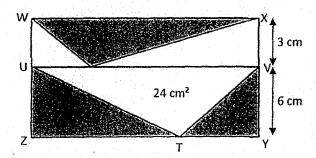


In the graph below, draw the bar to show the number of curry puffs sold by the Red and Orange teams.



28. The figure below shows a rectangle WXYZ which is divided into 2 rectangles, WXVU and UVYZ. XV is 3 cm and VY is 6 cm. The area of triangle UVT is 24 cm². Find the total area of the shaded parts.

Do not write in this space



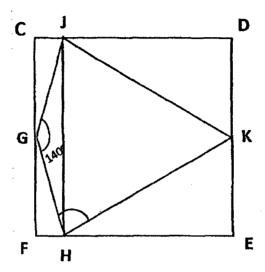
Ans: _____cm²

29. Gopal and Salim took part in their school's fund-raising walk. Gopal's average speed was 20 m/min faster than Salim. When Gopal completed the walk in 40 min, Salim had only walked $\frac{3}{5}$ of the distance. Find Gopal's average speed for the walk.

Ans: _____m/min

30. In the figure, CDEF is a square. JKH is an equilateral triangle. G is the midpoint of CF and JH is parallel to DE. \angle JGH \approx 140 °. Find \angle GHK.

Do not write in this space



Ans: _____

End of Booklet B -

RIVER VALLEY PRIMARY SCHOOL PRELIMINARY EXAMINATION 2019 MATHEMATICS

PRIMARY SIX

Name)
Class	: Primary 6 ()	
Date	: 23 August 2019	
Duratio	n: <u>1 h 30 min</u>	

PAPER 2

INSTRUCTIONS TO CANDIDATES

- 1. Write your Name, Register No. and Class in the space above.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. You are allowed to use a calculator.

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Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

 5 students took part in a donation drive. The table below shows the amount of money collected by the students. The amount collected by Charlie and Denise was not shown.

Do not write in this space

Students	Ahmad	Bala	Charlie	Denise	Emma
Amount	\$250	\$180			\$200
collected					-

The average amount of money collected by the 5 students was \$320. Charlie collected \$170 less than Denise. How much money did Charlie collect?

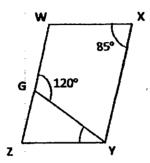
Ans: \$

2. There are 102 red and green flags hanging on a string. There are 3 green flags between any 2 red flags. What is the largest number of red flags on the string?

Ans: _____

3. In the figure, WXYZ is a parallelogram. GY is a straight line. ∠WXY = 85° and ∠WGY = 120°. Find ∠ZYG.

Do not write in this space



Ans					•
LA 19	•				

4. The diameter of a circle is 14 cm. (Take $\pi = \frac{22}{7}$)

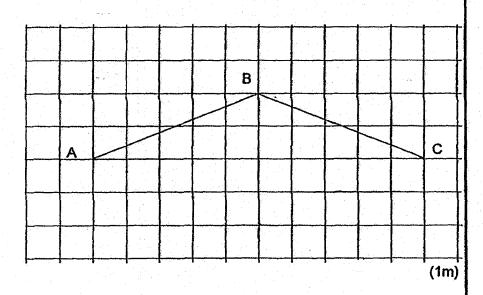
Based on the information above, put a tick in the correct box below.

	True	False	Not possible to tell
(a) The area of the circle is 154 cm ² .			
(b) When the diameter of the circle is doubled, the area of the new circle becomes 2 times the area of the original circle.			

In the square grid below, AB and BC are two sides of a rhombus | Do not write ABCD.

in this space

- (a) Complete and label the drawing of rhombus ABCD.
- (b) Measure and write down the size of ∠ABC.

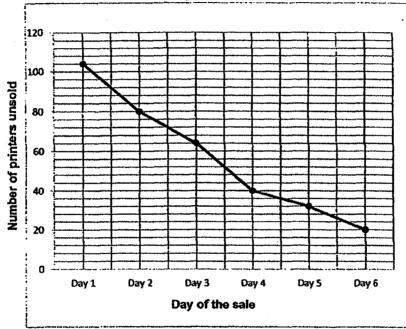


Ans: (b)_

For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets () at the end of each question or part-question. (45 marks)

6. A company offered a total of 120 printers at a 25% discount over a 6-day sale. The line graph below shows the number of printers left unsold at the end of each day.

Do not write in this space



During the sale, the discounted price of each printer was \$150. After the 6-day sale, the remaining printers were sold without any discount. What was the total amount of money collected from selling all the 120 printers?

Ans:___ (3m)

7. The table shows the number of pies baked by 3 bakers.

C	0(n	ot	W	rit	e
_			-			
ı	n	th	18	SI	a	ce

Names	Number of Pies
Alice	p + 7
Ben	2p – 5
Cindy	p

- (a) Find the total number of pies baked by the three bakers. Express your answer in terms of p.
- (b) If p = 55, find the average number of pies baked by the three bakers

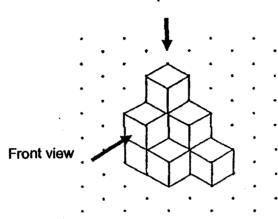
8. Jack and Jill started cycling from the same place in opposite directions along a straight path. Jill cycled at a speed of 9 km/h. Jack cycled at a speed 2 times that of Jill. How far apart were they after cycling for 45 minutes?

Ans: (3m)

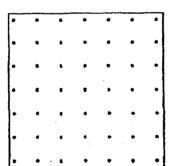
9. Bernard stacked 9 cubes and glued them together to form the solid below.

Do not write in this space

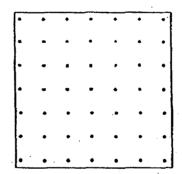




(a)Draw the front view and top view of the solid on the grid below. (2 marks)



Front view



Top view

(b)What is the minimum number of cubes Bernard has to add to the solid to make it into a bigger cube?

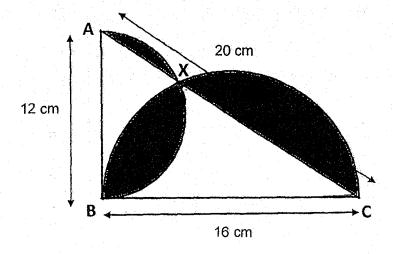
Ans:

(b)____

___(1m)

10. The figure below is made up of two semi-circles and a right-angled triangle ABC. The diameter of the two semi-circles AB and BC are 12 cm and 16 cm respectively. The two semi-circles meet at X. AC is 20 cm. Find the area of the shaded area (Take π = 3.14)

Do not write in this space



Ans :_____(3m)

11. Mrs Lim baked some cupcakes. She sold $\frac{1}{4}$ of them in the morning and $\frac{3}{5}$ of them in the afternoon. She decided to bake another 252 cupcakes. The number of cupcakes she had in the end was $\frac{3}{4}$ as many as the number of cupcakes she had at first. How many cupcakes did Mrs Lim have in the end?

[

Ans:______(3m

Mrs Chandra bought $\frac{4}{5}$ as many pears as apples and $\frac{2}{5}$ as many mangoes as apples. She paid a total of \$150 for all the fruits. The ratio of the amount of money she spent on the apples to the amount she spent on the pears was 3:2. The ratio of the amount of money she spent on the pears to the amount of money she spent on the mangoes was 1:5. The cost of each apple was \$0.60. Find the total number of fruits Mrs Chandra bought.

Do not write in this space

Ans:____(4m)

13. Li Ling had some \$2 notes and Anna had some \$5 notes. After Li Ling used $\frac{1}{4}$ of her notes and Anna used $\frac{2}{7}$ of her notes, they had the same number of notes left. If they had \$315 altogether in the end, how much money did Li Ling have at first?

Do not write in this space

each child received received was \$55 and	nared a sum of money. was \$69.88. The avera d the average amount of money did the girls rec	ige amount each teach teach girl received v	ooy in this space
			· .
			· ·
		•	
	Ans :		m)
	·		

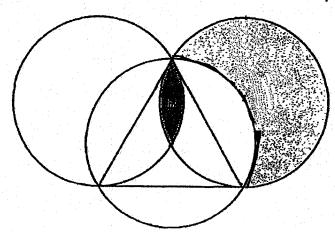
Stanley bought 4 times as many pencils as notebooks and 3 times 15. Do not write in this space as many erasers as notebooks. He spent a total of \$62.40 on these items. He spent \$9.60 more on the pencils than the notebooks and \$4.80 more on the notebooks than the erasers. Each notebook cost \$2.40 more than each eraser. How many pencils did Stanley buy?

(5m)

16. The figure below is made up of three identical overlapping circles and one equilateral triangle. Given that the area of the triangle is 63 cm² and the radius of each circle is 7cm.

Do not write in this space

- a) Find the perimeter of the shaded part A.
- b) Find the area of the shaded part B (Take $\pi = \frac{22}{7}$)



Ans: (a)_____(1m)

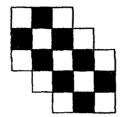
(b)_____(4m)

17. Bala uses shaded and unshaded squares to form figures that follow a \ Do not write pattern. The first three figures are shown below.

in this space







(a) The table below shows the number of unshaded square for each figure.

Complete the table for Figure 4 and Figure 5. (1 mark)

Figure Number	Number of shaded squares	Number of unshaded squares
: 1	4	5
2	6	8
3	8	11
4	10	
5	12	

- (b) What is the difference in the number of unshaded squares Bala uses for Figure 11 and Figure 14?
- (c) Another figure in the pattern has 20 more unshaded than shaded squares. What is the total number of shaded and unshaded squares in that figure?

Ans:

(b)	(2m)
-----	------

SCHOOL : RIVER VALLEY PRIMARY SCHOOL

LEVEL :

PRIMARY 6

SUBJECT : MATH

TERM : 2019 PRELIM

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	2	4	4	2	4	2	3	3	3

Q 11	Q12	Q13	Q14	Q15
2	1	3	2	3

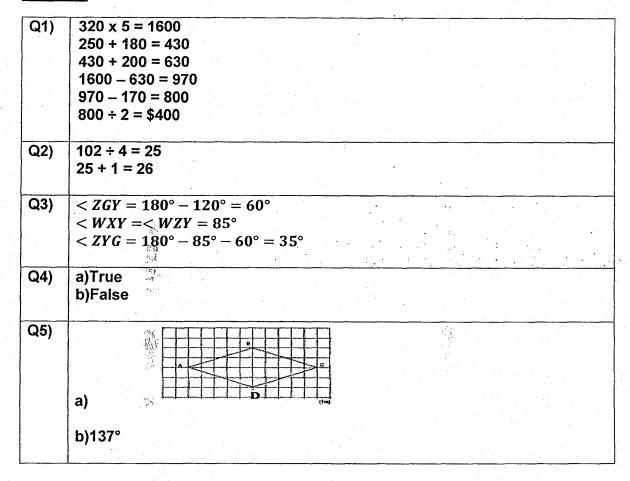
PAPER 1 BOOKLET B

Q16)	36 , 72			
Q17)	2.66km = 2660m			
Q18)	0.86	•		
Q19)	180° – 134° = 46°	•		<u>. </u>
	180° – 121° = 59°			
	180° – 46° – 59° = 75°			
	$ < a = 180^{\circ} - 75^{\circ} = 105^{\circ} $:		
Q20)	4u x 5 = 20u			
	2u + 3ub + 2u + 2u = 9u		·	
	$\frac{9}{20} \times 100\% = 45\%$			

024	250 . 7 - 50	
Q21)		
Ì	50 x 4 = \$200	
Q22)		
1	30000 ÷ 5 = 6000	
	6000 x 2 = 12000	
:	12000ml = 12 litres	
O23)	8 x 8 = 64	7-3=4
Q25)	$7 \times 7 = 49$	8 + 7 = 15
	1	
	64 + 49 = 113	$\frac{1}{2} \times 4 \times 15 = 30$
		113 – 30 = 83cm²
Q24)	12 ÷ 3 = 4	
	28 - 4 - 4 = 20	
	20 ÷ 2 = 10	
		į
	10 x 4 x 4 = 160cm ³	
Q25)	13 – r	·
	13 + 3 = 16	
	13 - r + 3 = 16 - r	
	16 + 16 - r = (32 - r) ye	ears old
Q26)	4u + 1u + 1u = 6u	20u → 120
,	6u x 2 = 12u	$1u \rightarrow 120 \div 20 = 6$
	4u x 2 = 8u	$4\mathbf{u} \rightarrow 6 \times 4 = 24$
	12u + 8u = 20u	24 x 6 = 144cm ²
	12u · ou – 2ou	24 X 0 = 1440111
Q27)	250	
į	9 206 45 5 150	
	2 100 E	
Ì	2 ~	
	Green	Blue Red Orange
}	2u→ 200	Teams
ĺ	$14u \rightarrow 200 = 2 - 100 \cos \theta$	inge)
ļ	$1u \rightarrow 200 \div 2 = 100 (orallo)$	
	200 - 60 - 100 = 40 (red)	

Q28)	$\frac{1}{2} \times 6 \times ? = 24$	$\frac{1}{2} \times 3 \times 8 = 12$	
	$\frac{1}{2} \times 6 = 3$	8 x 6 = 48	
	$3 \times ? = 24$ $24 \div 3 = 8$	48 - 24 = 24 24 + 12 = 36cm ²	
Q29)	20m/min x 40 = 800 800 ÷ 2 = 400 400 x 5 = 2000 2000 ÷ 40 = 50m/min		
Q30)		0°	

PAPER 2



Q6)	120 – 20 = 100
40,	100 x 150 = 15000
	75% → 150
-	$100\% \to \frac{150}{75} \times 100 = 200$
	$200 \times 20 = 4000$
	4000 + 15000 = \$19000
Q7)	a)p+7+2p-5+p= 2p+p+p+7- 5
	= 4p+7-5
	= (4p+2)p
	b)55 x 4 = 220
	220 + 2 =222
	222 ÷ 3 = 74
Q8)	$18km/h \times \frac{3}{4}h = 13.5km$
	$9km/h \times \frac{3}{4}h = 6.75km$
	13.5 + 6.75 = 20.25 km
	13.3 ± 0.73 = 20.23kiii
Q9)	a)
	• • • • • • •
	Front view Top view
	b)3 x 3 x 3 = 27
,	27 – 9 = 18
	27 – 3 – 10
Q10)	$3.14 \times 6 \times 6 \times \frac{1}{2} = 56.52$
	$3.14 \times 8 \times 8 \times \frac{1}{2} = 100.48$
	100.48 + 56.52 = 157
	$\frac{1}{2}\times12\times16=96$
	$157 - 96 = 61cm^2$

```
Q11)
        \frac{3}{5}\times 4=\frac{12}{20}
        20u - 12u - 5u = 3u
        15u - 3u = 12u
        12u \rightarrow 252
        1u \rightarrow 252 \div 12 = 21
        21 \times 3 = 63
        252 + 63 = 315
                A : P : M
Q12)
                                                               P : A : M
                3 : 2
                                                               4 : 5
         10u + 2u + 3u = 15u
        15u \rightarrow 150
        1u \rightarrow 150 \div 15 = 10
                                                             5u + 4u + 2u = 11u
        2u \rightarrow 10 \times 2 = 20
                                                              11 \times 10 = 110
        3u \rightarrow 10 \times 3 = 30
         30 \div 0.60 = 50
        50 \div 5 = 10
        \frac{4}{4} - \frac{1}{4} = \frac{3}{4}
Q13)
        \frac{7}{7} - \frac{2}{7} = \frac{5}{7}
        15 \times 2 = 30
        15 \times 5 = 75
        75 + 30 = 105
        315 \div 105 = 3
        20 \times 3 = 60 (number of $2 notes)
        60 \times 2 = $120
Q14)
        10540 - 6930 = $3610
Q15)
        3u = 62.40 - 9.6 - 4.8 - 4.8 = 43.20
        1u = 43.20 \div 3 = 14.4 (TCE)
        TCN = 14.40 + 4.80 = 19.20
        3p = 14.40
        1p = 14.40 \div 3 = 4.80
        19.20 - 4.80 = 14.40 (big diff)
        14.40 \div 2.40 = 6
        6 \times 4 = 24
```

Q16)
$$a)\frac{22}{7} \times 14 = 44$$

 $b)\frac{22}{7} \times 7 \times 7 = 154$
 $\frac{1}{2} \times 14 \times 7 = 49$
 $(154 - 49) \div 3 = 35 = 9\frac{1}{3}$ cm²

Q17) a)

Figure Number	Number of shaded squares	Number of unshaded squares	
1	4	5	
2	6	8	
3	8	11	
4	10	14	
5	12	. 17	

b)9 c)62 + 42 = 104



ROSYTH SCHOOL 2019 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6 PAPER 1

Name:	Register No		
Class: Pr 6			
Date: 27 August 2019	Parent's Signature:		
Total Time for Booklets A and B:	1 hour		
BOOKLET A			

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 4. You are not allowed to use a calculator.
- 5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet A)	20	

^{*} This booklet consists of 8 pages (including this cover page).

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

All diagrams in this paper are not drawn to scale unless stated otherwise.

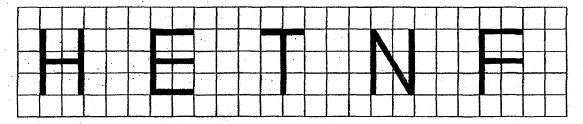
(20 marks)

- 1. Round 263 547 to the nearest hundred.
 - (1) 260 000
 - (2) 263 500
 - (3) 263 550
 - (4) 264 000

What is the length of the pencil?

- (1) 5.4 cm
- (2) 5.8 cm
 - (3) 6.4 cm
 - (4) 6.8 cm

- 3. Find the value of $\frac{5y+12}{6}$ when y = 6.
 - (1) 7
 - (2) 10
 - (3) 17
 - (4) 32
- 4. Troy took 2 h 15 min to bake a cake. He started baking at 11.35 a.m. What time did he finish baking?
 - (1) 1.00 p.m.
 - (2) 1.15 p.m.
 - (3) 1.35 p.m.
 - (4) 1.50 p.m.
- 5. How many letters below have both parallel and perpendicular lines?

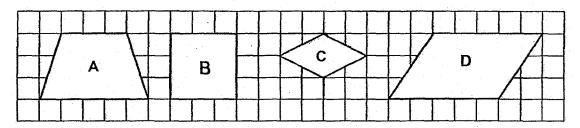


- (1) 5
- (2) 2
- (3) 3
- (4) 4

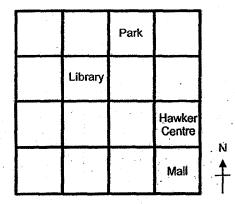
6. Karen is thinking of a quadrilateral.

Using the clues below, which of the following shapes, A, B, C, or D is Karen thinking of?

- Clue 1: It has two pairs of parallel sides.
- Clue 2: Not all angles are the same size.
- Clue 3: Not all sides are the same length.



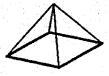
- (1) A
- (2) B
- (3) C
- (4) D
- 7. The square grid below shows the plan of a town.



Which direction is the library from the mall?

- (1) North-east
- (2) South-west
- (3) North-west
- (4) South-east

- 8. A machine can print 80 cards in 3 minutes. At this rate, how many cards can it print in 1 hour?
 - (1) 240
 - (2) 1 600
 - (3) 4800
 - (4) 14 400
- 9. The figure below shows a pyramid.

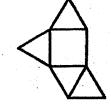


Which of the following is not a net of the pyramid?









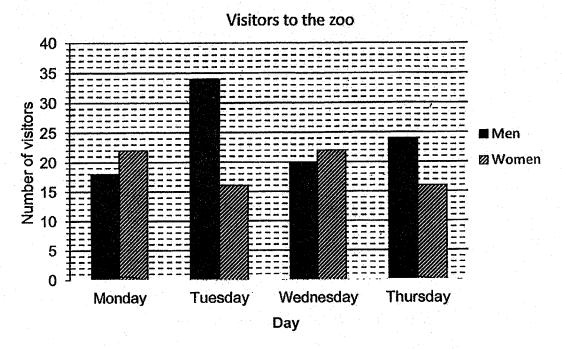
(3)



(4)

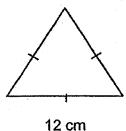


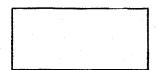
10. The graph shows the number of visitors at the zoo from Monday to Thursday. On which two days were there the same number of visitors at the zoo?



- (1) Monday and Tuesday
- (2) Monday and Thursday
- (3) Wednesday and Thursday
- (4) Tuesday and Thursday
- 11. Andrea had 24 more stamps than Bella. When Bella gave 18 stamps to Andrea, Andrea had 4 times as many stamps as Bella. How many stamps did Bella have at first?
 - (1) 14
 - (2) 20
 - (3) 32
 - (4) 38

- 12. An electronics store sold $\frac{5}{8}$ of their television sets in the morning, $\frac{1}{3}$ of the remaining television sets in the afternoon and the rest of the television sets in the evening. What fraction of the television sets were sold in the evening?
 - $(1) \frac{1}{4}$
 - (2) $\frac{2}{3}$
 - (3) $\frac{1}{2^2}$
 - (4) $\frac{5}{24}$
- 13. The equilateral triangle and the rectangle shown below have the same perimeter. The length of the rectangle is twice its breadth. The side of the triangle is 12 cm. What is the area of the rectangle?





- (1) 9 cm²
- (2) 24 cm²
- (3) 72 cm²
- (4) 81 cm²

- 14. John, Michael and Terry shared \$27.90 among themselves. Terry received 3 times as much money as Michael and John received twice as much money as Michael. How much money did John receive?
 - (1) \$3.10
 - (2) \$4.65
 - (3) \$6.20
 - (4) \$9.30
- 15. Claire bought a bottle containing 2.85 litres of washing detergent. She used 40 ml of washing detergent each day from Monday to Friday. On Saturday and Sunday, she used 50 ml of washing detergent each day. If Claire started using a new bottle on Tuesday, on which day would she use up all the washing detergent?
 - (1) Monday
 - (2) Tuesday
 - (3) Thursday
 - (4) Friday



ROSYTH SCHOOL 2019 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6 PAPER 1

Name:	Register No.
Class: Pr 6	Group:
Date: 27 August 2019	Parent's Signature:
Total Time for Booklets A	and B: 1 hour

BOOKLET B

Instructions to Pupils:

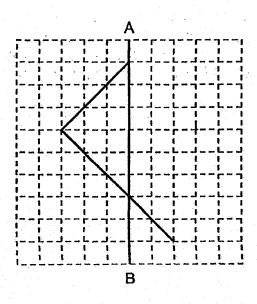
- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. You are **not** allowed to use a calculator.
- 4. Write your answers in the booklet.
- 5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet B)	25	

^{*} This booklet consists of 9 pages (including this cover page).

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. Do not write in this space All diagrams in this paper are not drawn to scale unless stated otherwise. (5 marks) Find the value of 8.2 - 2.33. 16. Ans: 17. Express 6 minutes as a percentage of 2 hours. Ans:

18. In the grid below, draw two straight lines to form a symmetric figure with AB as the line of symmetry.

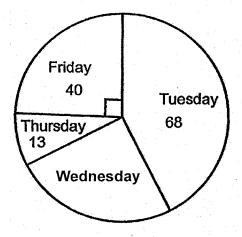


19. A rectangular container measuring 10 cm by 20 cm by 37 cm is $\frac{1}{4}$ filled with water. Find the volume of water in the container.

Do not write in this space

Ans:		cm
		 Oili

20. The pie chart below shows the number of cakes sold at a shop from Tuesday to Friday.



The number of cakes sold from Tuesday to Friday is also represented by the table below. Find the number of cakes sold on Wednesday.

Day	Number of cakes sold	
Tuesday	68	
Wednesday	?	
Thursday	13	
Friday	40	

Ans:		

Questions 21 to 30 carry 2 marks each. Show your workings clearly in the space provided for each question and write your answers in the spaces provided. Do not write For questions which require units, give your answers in the units stated.

in this space

All diagrams i	in this paper	are not drawn	to scale unless	stated otherwise.
				(20 marks)

21. Miss Teo gave her sudents some sweets. If she gave each student 4 sweets, there were 3 sweets left over. If she gave each student 6 sweets, she was short of 1 sweet. What was the smallest possible number of sweets that Miss Teo gave her students?

		- F	
		l.	
ns:		ł	

The table below shows the marks that Hayden scored for 4 subjects in the 22. SA1 examinations.

Subject	Marks	
English	72	
Mathematics	65	
Mother Tongue	?	
Science	80	

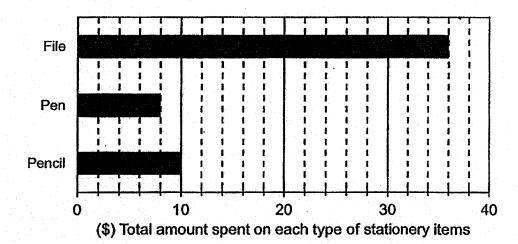
Hayden scored an average of 72 marks for the 4 subjects. How many marks did he score for his Mother Tongue?

Ans:	 	·	

23. Muthu bought 3 types of stationery items for his office. The prices are given in the table below.

Price per item
\$0.50
\$2.00
\$4.00

The bar graph shows the total cost spent on each type of stationery items.



What is the total number of stationery items bought by Muthu?

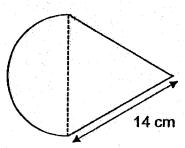
			1 1	
ns.				

Do not write in this space

24. The figure below is made up of a semi-circle and an equilateral triangle.

Find the perimeter of the figure. Take $\pi = \frac{22}{7}$.

Do not write in this space



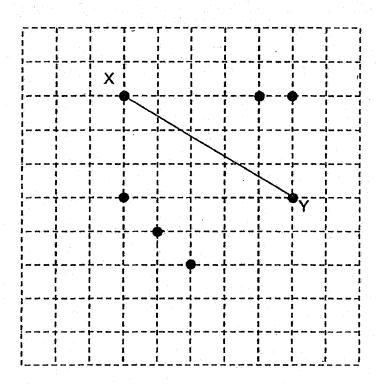
Ans: ____ cm

25. In a 100 m race, when Patrick reached the finishing point, he was 20 m ahead of Raj and 40 m ahead of Salim. All the boys did not change their speed throughout the race. How far had Salim run when Raj reached the finishing point?

Ans: _____r

126. In the square grid below, XY is a straight line. Draw an isosceles triangle XYZ using one of the given points as point Z.

Do not write in this space



27. A total of 77 people are standing in a queue for concert tickets. There are at least 3 women in between every 2 men. What is the largest possible number of men in the queue?

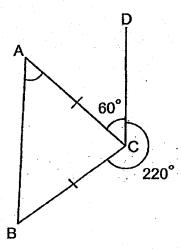
Ans: _____

28. Mdm Farah baked an equal number of cupcakes and cookies. After she sold 32 cupcakes and 20 cookies, the number of cupcakes left was $\frac{4}{7}$ of the number of cookies left. How many cookies did she bake at first?

Do not write in this space

Α			
Ans:			

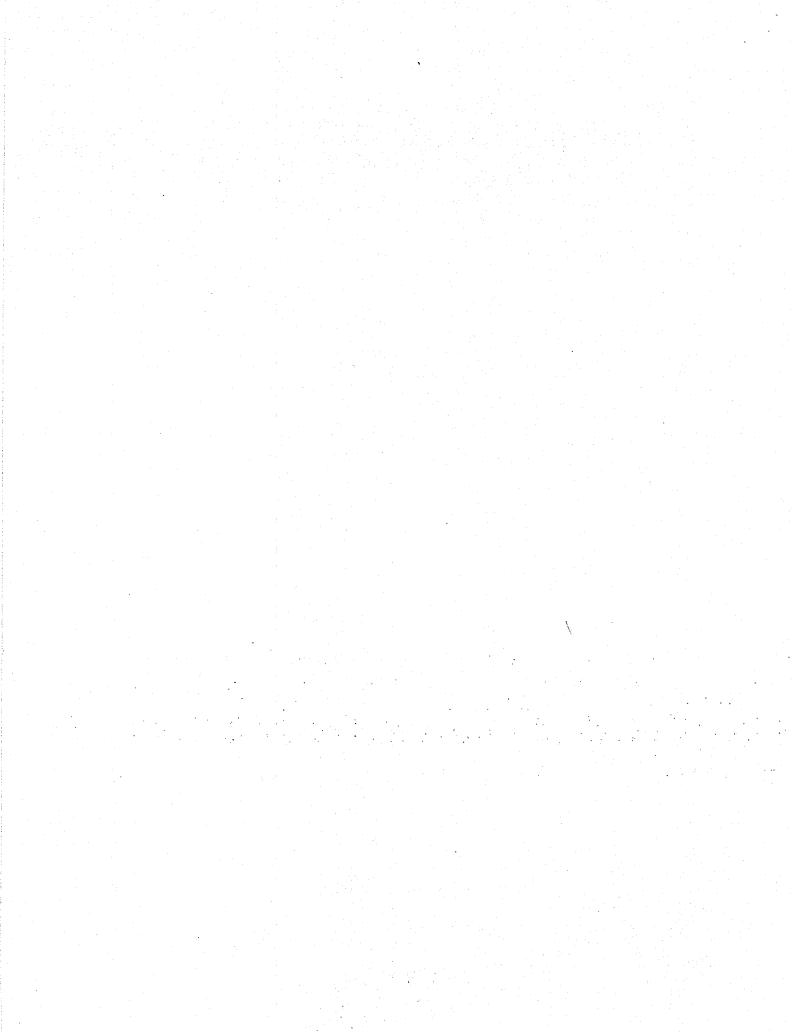
29. In the figure, ABC is an isosceles triangle. \angle BCD = 220° and \angle ACD = 60°. Find \angle BAC.



Ans: ____°

30.	on Monday, Alynna has \$90 while Rachel has \$10 in each of their avings account. On Tuesday, both Alynna and Rachel start saving a ked amount daily. Rachel saves \$2 more than Alynna each day. After 10 ays Alynna has twice as much money as Rachel. How much does				
	Alynna save each day?				
		'			
		* 4			
	Ans: \$	<u> </u>			

End of paper





ROSYTH SCHOOL 2019 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6 PAPER 2

Name:	Register No.			
Class: Pr 6				
Date: 27th August 2019	Parent's Signature: _			
Time: 1h 40mins				

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Show your workings clearly as marks are awarded for correct working.
- 4. Write your answers in this booklet.
- 5. You are allowed to use a calculator.
- 6. Answer all questions.

Questions	Maximum Mark	Marks Obtained
Q 1 to 5	10	
Q 6 to 18	45	

Section	Maximum Mark	Marks Obtained
Paper 1	45	
Paper 2	55	
Total	100	

^{*} This booklet consists of 15 pages (including this cover page)

provid	tions 1 to 5 carry 2 marks each. Show your working clearly in the space led for each question and write your answers in the spaces provided. For ions which require units, give your answers in the units stated. (10 marks)	Do not writ in this space					
All diagrams in this paper are not drawn to scale unless stated otherwise.							
1.	Joel had 6p marbles. He had half as many marbles as Amanda. Amanda had 8 more marbles than Raju. How many marbles did they have altogether?						
**•							
	Ans:						
2.	James has $\frac{1}{4}$ as many sweets as Ahmad and $\frac{4}{5}$ as many sweets as Muthu. They have a total of 325 sweets. How many sweets does Muthu have?						
	Ans:						

(Go on to the next page)

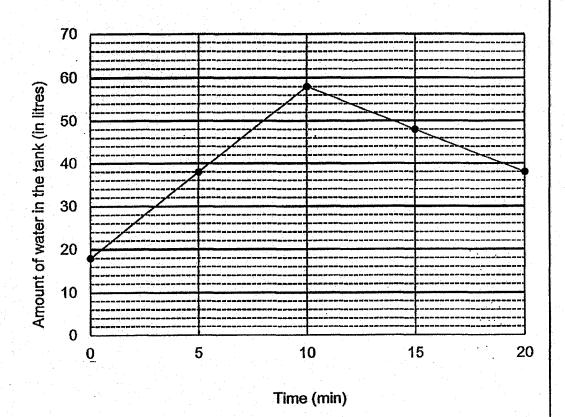
3.	Two identical triangles overlapped each other equilateral triangles as shown below. The are 78 cm ² . Find the area of 1 unshaded equilate	ea of the shaded part is	Do not wri in this spa
		Ans:cm²	
4.	In an examination hall, the tables were arrang were 15 rows with 30 tables in each row on Diwere removed from each row and the remaining rearranged such that there were 33 tables in each row and the remaining rearranged such that there were 33 tables in each row are 33 tables i	ay 1. On Day 2, 8 tables ng tables were then	

a) There were 442 tables left on Day 2.

b) There were 10 rows of tables on Day 2.

5. A rectangular tank was filled with some water at first. Tap A was first turned on to add more water into the tank for 20 minutes. After 10 minutes, Tap B was then turned on to drain water out of the tank until the 20th minute. The line graph shows the volume of water in the tank over the period of 20 minutes.

Do not write in this space



How many litres of water did Tap B drain out?

Ans: _____ℓ

II a	agrams in this paper are not drawn to so	cale unless s		
			(50 marks)	
	$\frac{1}{3}$ of Julie's money was equal to $\frac{3}{5}$ of Nano Nancy \$42, both of them would have the smuch money did Nancy have at first?			
****				1
				į ·
		Ans:	[3]	1
	Andy had just enough ribbon to cut into 45 However, if he cut the ribbon into 37 piece have 5.04 m of ribbon left. What was the l	es of equal ler	ngth, he would	

8. Tony wants to sell a laptop. The table shows the prices of the same laptop from his shop and Shop Y.

Do not writ∈ in this spac

Tony's	shop	Shop	ρΥ
Original Price	% Discount	Original Price	% Discount
\$ 3 500	?	\$4 000	30%

Tony wants to price his laptop at the same selling price as Shop Y. How much percentage discount must be give to match Shop Y's selling price?

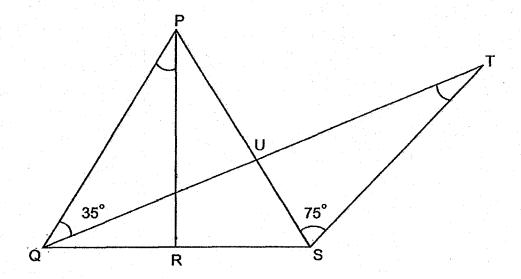
Ans:			[3]	

9.	at 6.00 late If	p.m. I he jog	f Alfred wal s at a spee	'ain's house. ks at a speed d of 80 m/min red's and Zair	of 60 m/min, he will be 6 r	he will be 1	6 minutes	Do not writ in this space
	uie dist	ance u	etween Am	icu S aliu Zali	is nouse:			
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			·	•				
								1.
							•. •	
		•			Ans:		[3]	

10. In the diagram below, PQS is an equilateral triangle. QT is a straight line. $PR \perp QS$, $\angle PQV = 35^{\circ}$ and $\angle PST = 75^{\circ}$. Find

Do not write in this space

- (a) ∠QPR
- (b) ∠QTS

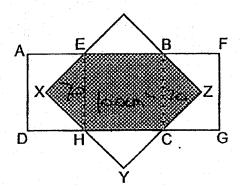


Ans: (a)_____[1]

(b) _____[2]

11. The figure consists of 2 identical rectangles, ABCD and EFGH, overlapping one another. EBCH is a square. The area of each rectangle is 280 cm². 40% of the whole figure is shaded. The unshaded area of the whole figure is 360 cm². What is the ratio of triangle EXH to the area of ADGF?

Do not write in this spac



Ans: __ ___ [4]

12.	The number of visitors to a zoo was 152 880 in July. This was a 16%
	decrease from the number in June. The number of people who visited the
	zoo in August was a 20% increase from the number in July.

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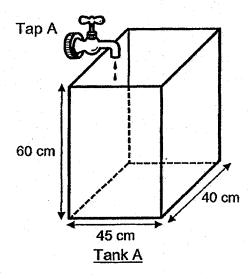
- (a) What was the total number of people who visited the zoo in June?
- (b) What was the percentage increase in the number of people who visited the zoo in August compared to June?

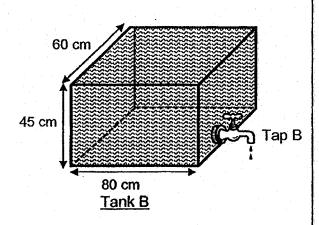
Ans: (a)				[2	
	,	_	 	 _		,,,

13. The diagram below shows 2 tanks Tank A and Tank B of different dimensions. Tank A is completely empty while Tank B is filled with water to the brim.

Do not write in this spac

- (a) Find the volume of water in Tank B.
- (b) Water from Tap A flows at a rate of 2.7 litres per minute while water drains from Tap B at a rate of 2.4 litres per minute. Both taps are turned on at the same time. After some time, the height of the water level in both tanks becomes the same. Find the height of the water level at this point of time.





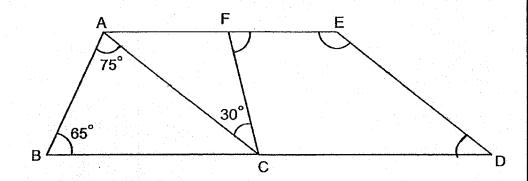
Ans: (a) _____[1]

(b) ______[3]

14. In the figure, ABDE is a trapezium and AC // ED. Find

Do not write in this spac

- (a) ∠CFE
- (b) ∠FED

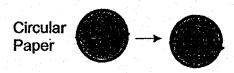


Ans: (a) _____[2]

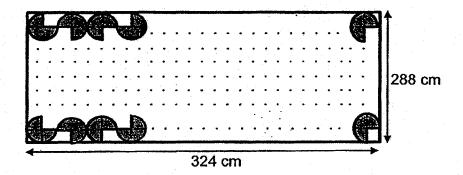
(b) ___ ____[2]

15. Mrs Raju wanted to decorate the bulletin board with some circular pieces of paper. The diameter of each circular paper was 12 cm. She cut all the circular pieces of paper into quadrants and decorated the entire bulletin board using all the quadrants, following the pattern shown below. There was no gap between each piece of quadrant.

Do not write in this space



How many pieces of circular paper did she use to decorate the bulletin board?



Ans: _ _____[4]

16. There were 200 more apples than pears at a fruit stall. After $\frac{1}{4}$ of the apples and $\frac{2}{7}$ of the pears were sold, there were 170 more apples than pears left.

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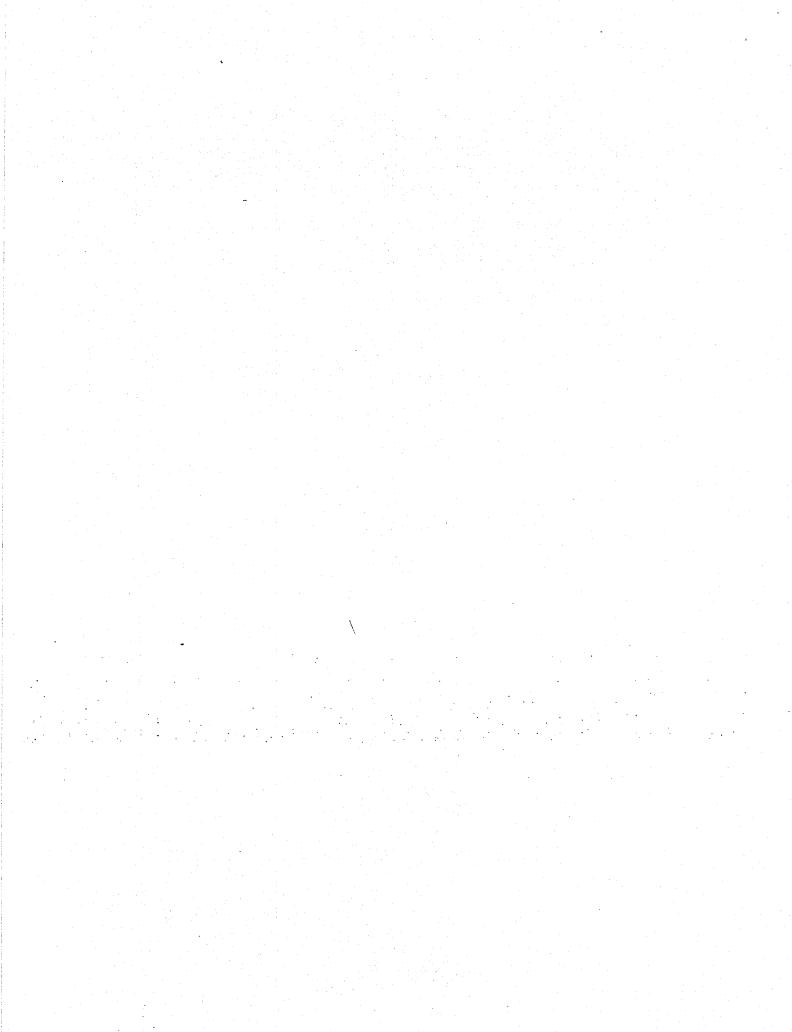
- (a) How many apples were there at the fruit stall at first?
- (b) How many pears were left at the fruit stall in the end?

Ans: (a) ______ [3]

(b) _____[2]

17.	A chef prepared some fishballs for the guests during a birthday party. 60% of the guests were children. Among the children, the ratio of the number of girls to the number of boys is 5:3. A total of 9 408 fishballs were prepared so that each adult got 5 fishballs and each child got 6 fishballs. There were no fishballs left after the party.							
	number o	s the ratio of the f fishballs the cl r answer in the s	hildren got?		the adul	ts got to the		
	b) How man	y boys attended	I the party?					
						*		
						•		
							•	
		•					•	
				•				
				•		• • •	• • • • •	
				Ans: (a))		[3]	
		and the second of the second o						

End of Paper



SCHOOL:

ROSYTH PRIMARY SCHOOL

LEVEL

PRIMARY 6

SUBJECT:

MATH

TERM

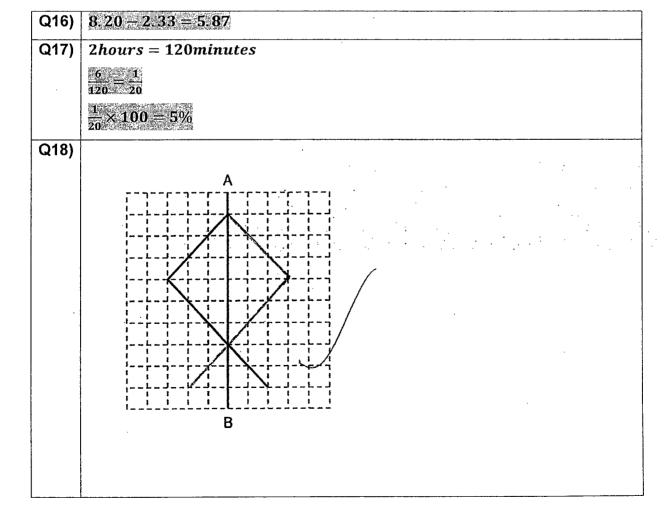
2019 PRELIM

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	2	1	4	3	4	3	2	3	2

Q 11	Q12	Q13	Q14	Q15	
4	1	3	4	4	

PAPER 1 BOOKLET B



Q19)	$20 \div 4 = 5$
	$10\times 5\times 37=1850cm^3$
Q20)	39
Q21)	6-4=2
	3+1=4
	$4 \div 2 = 2$
	2 x 4 = 8
	8 + 3 = 11 sweets
Q22)	72 x 4 = 288
	288 – 72 = 216
	216 - 65 = 151
	151 – 80 = 71 marks
Q23)	$36 \div 4 = 9$
	$8 \div 2 = 4$
	$10 \div 0.50 = 20$
	9 + 4 + 20 = 33
Q24)	$\frac{1}{2}x \frac{22}{7}x 14 = \frac{22}{7}x 7 = 22$
	22 + 14 + 14 = 22 + 28 = 50 cm
Q25)	100 - 20 = 80 (Raj)80 : 60
QZU)	$100 - 20 = 80 \text{ (Raj)} 80 \cdot 80$ $100 - 40 = 60 \text{ (Salim)} \qquad 4 : 3$
	100 - 40 = 00(<i>Sattine</i>) 4 : 3
	100.7011
Q26)	
GLU,	أحسم براه سرين بال سريد بيار شرس بالدر بر مراض براه براه براه براه براه براه براه براه

Q27)	77 ÷ 4 = 19R1	
Î	19 x 1 = 19	
	19 + 1 = 20 men	
Q28)	4U + 32 = 7U + 20	
	3U = 32 - 20 = 12	
	$1U=12\div 3=4$	
	$7U=7\times 4=28$	
	28 + 20 = 48 cookies	
Q29)	$220^{\circ} + 60^{\circ} = 280^{\circ}$ $360^{\circ} - 280^{\circ} = 80^{\circ}$	
	$180^{\circ} - 80^{\circ} - 100^{\circ}$ $100^{\circ} \div 2 = 50^{\circ}$	
Q30)	Alynna Rachel	
	90 10	10U+90=(10U+30)x2
	10U 10U+20	=10U+90=20U+60 -40U-00 00-20
		=10U=90-60=30 1U=30÷10=\$3

PAPER 2

Q1)	Joel6p
	Amanda12p
	Raju 12p – 8
	6p + 12p + 12p - 8 = (30p - 8) marbles
	05 = 205
Q2)	25u = 325
	1u = 325 ÷ 25 = 13
	5u = 13 x 5 = 65 sweets
<u> </u>	
Q3)	6u = 78
	$1u = 78 \div 6 = 13 \text{ cm}^2$
Q4)	a)False
7.1	b)True
Q5)	38 – 18 = 20
,	5 mins 20
	10 mins 20 x 2 = 40
	58 + 40 = 98
	98 – 38 = 60L

Q6)	$\left \frac{1}{3}J = \frac{3}{5}N\right $
	3 5
	3. 3.
	$\left \frac{3}{9}J = \frac{3}{5}N\right $
	$42 \times 2 = 84$
	9u – 5u = 4u
	4u = 84 1u = 84 ÷ 4 = 21
	$5u = 21 \times 5 = 105
re e	34 - 21 × 3 - \$103
Q7)	45 – 37 = 8
	8 pieces →5.04m
	1 piece →5.04m ÷ 8 = 0.63m
	45 pieces →0.63m x 45 = 28.35m
Q8)	7
40,	$\frac{7}{10}$ x 4000 = 2800
	3500 - 2800 = 700
	$\frac{700}{3500}$ x 100% = 20%
	3500 78 - 20 78
Q9)	60u + 600 = 80u
	20u = 600
	$1u = 600 \div 20 = 30$
	30 x 80 = 2400m
Q10)	
	<QVR = 90° – 25° = 65°
	<pvq (360°="" -="" 2="115°</th" 65°="" 65°)="" =="" ÷=""></pvq>
	<qpr -="" 115°="30°</th" 180°="" 35°="" ==""></qpr>
	b) <qts -="" 180°="" 25°="" 60°="" 75°="20°</th" ==""></qts>
Q11)	60% -→324
	10% -→324 ÷ 6 = 54
	100% →54 x 10 = 540
	40% →54 x 4 = 216
	216 ÷ 6 = 36
	$36 \times 4 = 144$
	144 + 324 = 468
) <i>y</i>	36:468 = 1:13
Q12)	a)84% →152880
	1% →152880 ÷ 84 = 1820
· 	

100% →1820 x 100 = 182000 (June)
b)
$$\frac{12}{10}$$
x 152880 = 183456 (August)

183456 - 182000 = 1456
 $\frac{1456}{182000}$ x 100% = 0.8%

Q13)
a)80 x 60 x 45 = 216000
b)33 $\frac{3}{4}$

$$\frac{Tank A TankB}{Base = 45x40} = 1800$$

$$Rate = \frac{2700}{1800} = \frac{32400}{24800} = \frac{1}{2}$$
 $\frac{3}{2}t = 45 - \frac{1}{2}t$

$$2t = 45$$

$$t = 22.5$$

$$helght = \frac{3}{2}t = \frac{3}{2}(22.5)$$

$$= 33.75(33 \frac{3}{4})$$
Q14)
a)288 \div 12 = 24
$$324 \div 12 = 27$$

$$27 \times 24 = 648$$

$$648 \div 4 \times 3 = 486 \text{pieces}$$
Q16)
a)760
b)400
$$A = u + 200 \longrightarrow \frac{3}{7}y + 170$$

$$\frac{5}{7}u = y$$

$$\frac{3}{4}u + 150 = \frac{5}{7}u + 170$$

$$\frac{1}{28}u = 20$$

$$u = 560 + 260 = 760$$

Q17) a) 5:9 b)378boys C A : C A 10 14 x 672 18: 5 : 9 9 : 5 3360 6048 9408 $3360 \div 5 = 672 (A)$ $6048 \div 6 = 1008 (C)$ $1008 = 5G \ 3B$ $1008 \div 8 \times 3 = 378$

	AT	/ G	AL/	ws	W/	EC	
Index No.						_	

SINGAPORE CHINESE GIRLS' SCHOOL

PRELIMINARY EXAMINATION 2019

PRIMARY 6

MATHEMATICS PAPER 1

BOOKLET A

		4	
Name	٠		١
1141110	•		 ,

Class: Primary 6 SY / C / G / SE / P

20 August 2019

		Marks attained	Max Mark
Paper 1	Booklet A		20
	Booklet B		25
Paper 2			55
Total Marks			100

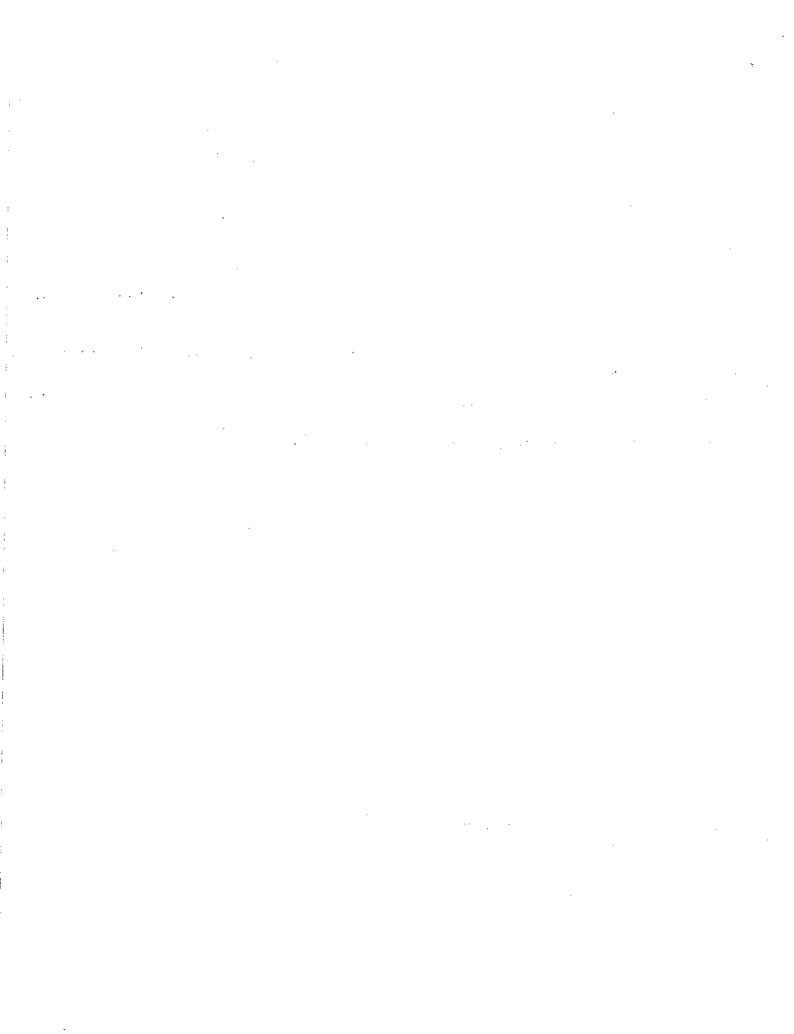
Parent's	Signature

15 Questions 20 Marks

Total Time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES

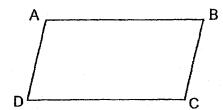
Do not open this booklet until you are told to do so. Follow all instructions carefully. Answer all questions. You are not allowed to use a calculator



Booklet A

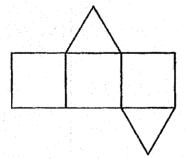
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

- 1. What does the digit 3 in 4.362 stand for?
 - (1) 3 ones
 - (2) 3 tenths
 - (3) 3 hundredths
 - (4) 3 thousandths
- 2. Express 10.85 km in metres.
 - (1) 108.5 m
 - (2) 1085 m
 - (3) 10 850 m
 - (4) 108 500 m
- 3. Which of the following, when rounded off to the nearest thousands, is not 27 000?
 - (1) 26 749
 - (2) 26 952
 - (3) 27 308
 - (4) 27 514
- 4. Which of the following statements is true about the parallelogram ABCD?
 - (1) $\angle DAB + \angle BCD = 180^{\circ}$
 - (2) AD is perpendicular to BC.
 - (3) A parallelogram has a line of symmetry
 - (4) $\angle ABC = \angle ADC$.

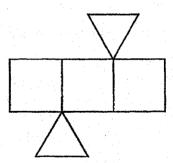


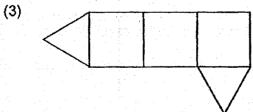
- Which of the following fractions has the smallest value? 5.
 - (1)
 - (2)
 - (3)
 - (4)
- Find the value of 55 + $\frac{5}{100}$ + $\frac{5}{1000}$. 6.
 - (1) 55.505
 - (2) 55.55
 - (3) 55.05
 - (4) 55.055
- Which of the following is not a net of a prism? 7.

(1)

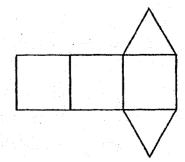


(2)





(4)



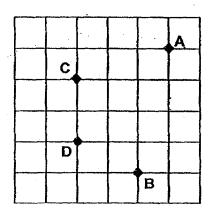
- 8. Which of the following letters has only one line of symmetry?
 - (1) E
 - (2) H
 - (3) O
 - (4) X

H

O

X

- 9. In the square grid below, A, B, C and D represent four landmarks in a town. In which direction is C from D?
 - (1) N --
 - (2) W
 - (3) NW
 - (4) SE



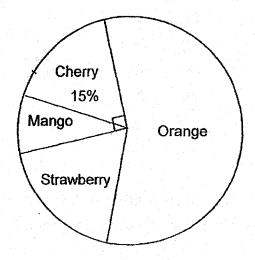


- 10. Nurul saved a total of \$3.00 in three days, Each day, she saved 30 cents more than the previous day. How much did she save on the second day?
 - (1) \$1.00
 - (2) \$0.70
 - (3) \$1.10
 - (4) \$0.80

11. The pie chart shows the favourite fruit of a group of children. 150 children like cherry and mango. How many more children prefer cherry to mango?



(4) 15



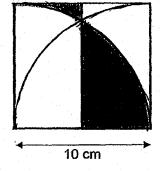
12. The figure below is made up of two identical quadrants and a square. What is the perimeter of the shaded part?

(1)
$$(5\pi + 10)$$
 cm

(2)
$$(5\pi + 20)$$
 cm

(3)
$$(20\pi + 10)$$
 cm

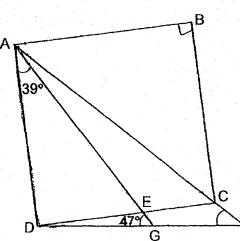
(4)
$$(20\pi + 20)$$
 cm



13. In the figure below, ABCD is a square. $\angle DAE = 39^{\circ}$ and $\angle AGD = 47^{\circ}$. Find $\angle AFD$.



$$(3)$$
 47°



14. The table below shows the NAPFA test Awards of a group of students.

Award	Number of students
Gold	80
Silver	70
Bronze	40
Nil	?

- $\frac{3}{4}$ of the students achieved at least a Silver award in the NAPFA test. How many students did not achieve any award?
- (1) 10
- (2) 30
- (3) 40
- (4) 50
- A cyclist took $\frac{3}{10}$ h to cycle from his home to the park, 12 km away. When he left the park, he cycled along the same route and took 30 min to reach home. What was his average speed for the whole journey to and fro?
 - (1) 15 km/h
 - (2) 30 km/h
 - (3) 48 km/h
 - (4) 64 km/h

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SINGAPORE CHINESE GIRLS' SCHOOL

PRELIMINARY EXAMINATION 2019

PRIMARY 6

MATHEMATICS PAPER 1

BOOKLET B

Name:	()	
Class : Primary 6 SV / C / G / SE	/ D		20 August 2010

Paper 1	Mark attained	Max Mark
Booklet B		25

15 Questions

25 Marks

Total Time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so. Follow all instructions carefully.

Answer all questions.

You are not allowed to use a calculator

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		新生产 48 大海菜 14 H
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	是这种是一种的一种。	
医乳腺质 植物的复数 医皮肤丛		

Booklet B

Do not write in this column

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

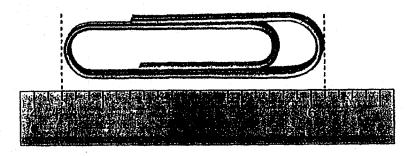
16. Evaluate $\frac{2}{3} \times (48 - 30) + 28 \div 4$

Ans: _____

17. Find the value of $\frac{5}{6} \div 10$.

Ans:

18. What is the length of the paper clip?



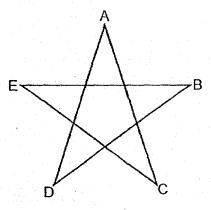
Ans: _____cm

19. Express 0.429 as a percentage.

Do not write in this column

Ans: ______ %

20. Brandon used a piece of 68-cm wire to fold into a star, such that AC = CE = EB = BD = DA. What is the length of AC?



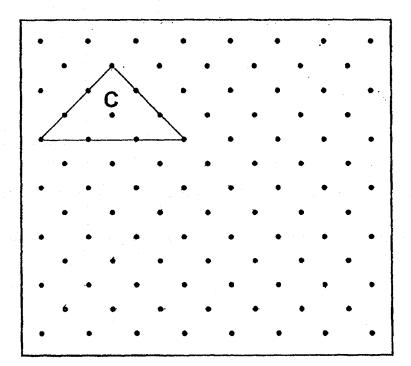
Ans: _____cm

Questions 21 to 30 carry 2 marks each. Show your working clearly in the space for each question and write your answers in the space provided.

For questions which require units, give your answers in the units stated. (20 marks)

Do not write in this column

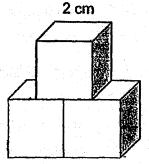
- 21. A triangle C is drawn by joining dots on the square grid with three straight lines.
 - (a) In the same way, draw another triangle with twice the perimeter of C on the square grid. Label this triangle D.
 - (b) What is the ratio of the area of C to the area of D?



Ans:	b)			
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22. The figure below is made up of three 2-cm cubes. Find the total surface area of the figure.

Do not write in this column

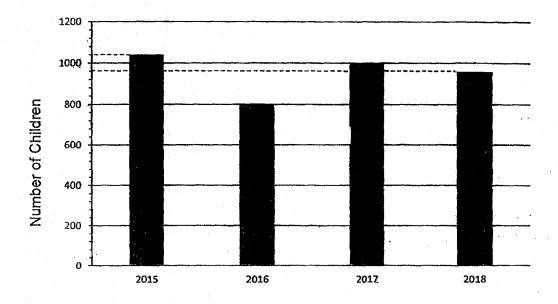


Ans: cm²

Peggy saved $\frac{2}{7}$ of her salary and Gary saved $\frac{4}{9}$ of his salary. If they saved the same amount of money, what is the ratio of Peggy's salary to Gary's salary?

Ans:

The graph below shows the number of children who participated in an art competition in the respective years.



24. What is the percentage increase in the number of participants between the years 2016 and 2017?

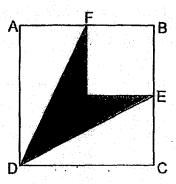
Ans: ______%

25. What is the average number of students who participated in the competition?

Ans: _____

26. ABCD is a square with an area of 108 cm². E is the midpoint of BC and F is the midpoint of AB. Find the shaded area.

Do not write in this column



Ans: cm

27. Sandra is *p* years old. Jay is 3 years older than her and 5 years younger than Erin. What is the total age of the three children?

Ans: _____

28. The table below shows the number of hours that a group of 20 children spent on screen time in a day.

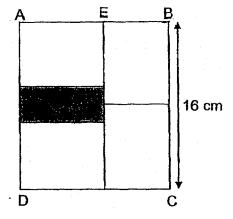
Do not write in this column

Number of hours spent	0	2	3	4
Number of children	2	7	8	3

What is the average number of hours spent on screen time each day?

Ans:	hours

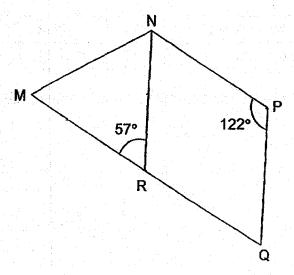
29. The following figure is made up of 4 identical rectangles and a shaded rectangle. The length of BC is 16 cm. If the area of the shaded part is 24 cm², what is the length of EB?



Ans:	cm

30. The figure below is not drawn to scale. It is made up of an isosceles triangle and a rhombus. ∠MRN = 57° and ∠NPQ = 122°.

Do not write in this column



Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick (\checkmark) to indicate your answer.

Statement	True	False	Not possible to tell
The lines MR and RN are equal in			
length.			
The figure MNPQR is a trapezium.			

End of Booklet B

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SINGAPORE CHINESE GIRLS' SCHOOL

PRELIMINARY EXAMINATION 2019

PRIMARY 6

MATHEMATICS

PAPER 2

Name:		 ()

Class: Primary 6 SY / C / G / SE / P

20 August 2019

	Mark	Max Mark
Paper 2		55

Parent's Signature				

17 Questions 55 Marks

Total Time for Paper 2: 1 h 30 min

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

Follow all instructions carefully. Answer all questions. You are allowed to use the calculator

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[4] Boy and the control of the second of	alla di la caracteria della comparazioni di della comparazioni di la caracteria di la caracteria di la compara

1 Peter wanted to buy a bag but he only had $\frac{1}{5}$ of the money. After receiving \$12

from his father, he was still short of $\frac{1}{2}$ of the money. What is the price of the bag?

Ans: \$ _____

Alan, Ben and Carol had 18, 27 and 106 marbles respectively. Each of them bought an equal number of marbles, after which Carol had as many marbles as the total number that Alan and Ben had. How many marbles did each child buy?

Ans: _____

Roger saves \$y on Monday. Every day, he increases the amount saved by 100%. Do not write in this column 3. Find the total amount saved from Monday to Wednesday.

Ans: \$ ____

A tin of paint weighed 10.5 kg when it was $\frac{1}{2}$ full. When it was $\frac{1}{3}$ full, it weighed 4 7.5 kg. What was the mass of the tin when it was empty?

_ kg

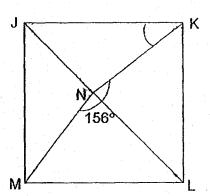
Mr Wong gave away 236 apples to a group of people. There were 10 more 5. children than adults who received the apples. Each child received 2 apples while each adult received 4. How many adults received the apples?

Do not write in this column

6. A notebook cost \$2. For every 4 notebooks bought, 1 was given free. Hoping to enjoy the promotion, Jane wanted to buy 18 notebooks but is short of \$3. How much money does she have?

Ans: _____[3]

7. In the figure, JKLM is a square, \angle MNK = 156°. Find \angle JKN.



Ans: _____[3]

8. Town P and Town Q are 221 km apart. Laura left Town P for Town Q at 10.00 a.m., travelling at an average speed of 81 km/h. Mandy left Town Q for Town P at 11.00 a.m., travelling at an average speed of 94 km/h. What was the distance travelled by Laura when she passed Mandy?

Do not write in this column

Ans: _____[3]

 The figure below is made up of two semi-circles and two isosceles triangles. The diameter of the smaller semi-circle is 10 cm while the diameter of the bigger semi-circle is 15 cm.

Taking π = 3.14, find the area of the shaded part.



Ans:		[3]

Do not write in this column

Do not write in this column

10. Figure A shows a sealed container partially filled with 48 cm³ of water.
The container is then placed lying on its back as shown in Figure B.
What is the height of the water level in Figure B?

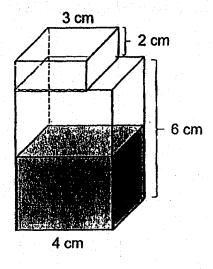


Figure A

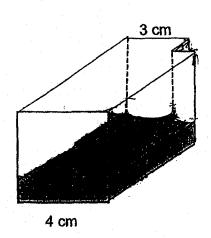


Figure B

Ans: _____[3]

11. Mrs Teo paid \$122.40, after 15% discount, for petrol purchase at a petrol station.

Petrol price before discount was \$2.25 per litre.

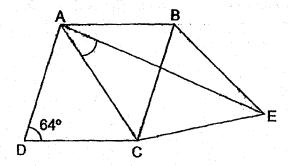
Do not write in this column

- (a) How many litres of petrol did Mrs Teo purchase?
- (b) -Mrs Teo's car can travel 15.8 km with every litre of petrol. With the amount of petrol that she had purchased, what is the maximum distance that her car can travel?

Anc	∖ns: a))	1
Alio.			Ľ	•	

12. The figure below is not drawn to scale. ABCD is a rhombus and BCE is an equilateral triangle. ∠ADC = 64°. Find ∠CAE.

Do not write in this column



Ans: _____[4]

Do not write in this column

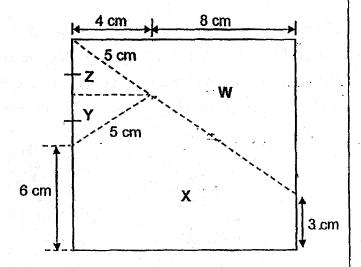
13. Pauline had some money She spent $\frac{1}{4}$ of it on a book and received another \$33 from her mother. With what she had left, she spent 60% of it on a bag and had \$24 left. How much money did Pauline have at first?

Ans: _____[4]

Do not write is

this column

- A piece of square paper of sides 12 cm is cut into 4 parts W, X, Y and Z along the dotted lines as shown below. The 4 pieces of cutouts can be rearranged to form a rectangle by shifting Z and W. 14.
 - What is the area of the rectangle? (a)
 - Find the perimeter of the rectangle that is formed. (b)



A	٠,	m	1
Ans:	a)	[2	J

15. The table shows the overseas postage rate for bulky items.

Destinations	1 st 5kg	Additional kg or part thereof
Australia	\$40	\$7
Europe	\$50	\$9
Korea	\$30	\$5

Do not write in this column

Timothy sent a parcel to each of his friends in Australia, Europe and Korea as shown below. Timothy paid a total of \$146 for the postage of the three parcels. He paid \$16 more for the postage to Australia than to Korea.

What was the additional mass that Timothy was charged for the postage to Australia?



To Europe Parcel weighs less than 5 kg



To Korea
Parcel
weighs more
than 5 kg



To Australia Parcel weighs more than 5 kg

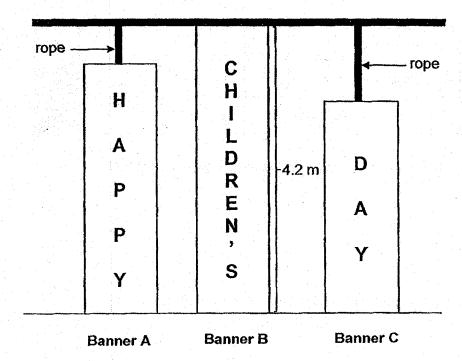
Ans:		į	14
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16. The diagram shows three banners hung from a beam to the floor. The total length of the three banners is 8.7 m. Banner B is 4.2 m long.

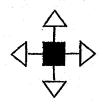
Banner A and Banner C are each extended with a rope, after which each extended banner reaches the floor like Banner B. The longer rope is twice the length of the shorter rope.

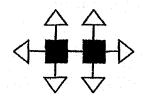
What is the length of Banner C?

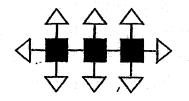


Ans: _____[5]

17. Study the pattern carefully and answer the questions that follow.







Pattern 1

Pattern 2

Pattern 3

Pattern number	1	2	3		25
Number of triangles	4	6	8	•••	
Number of straight lines	4	7	10	***	

(a) How many triangles are needed to form Pattern 25?

(b Which pattern is made up of 217 straight lines?

(c) What is the total number of triangles and squares needed to form Pattern 48?

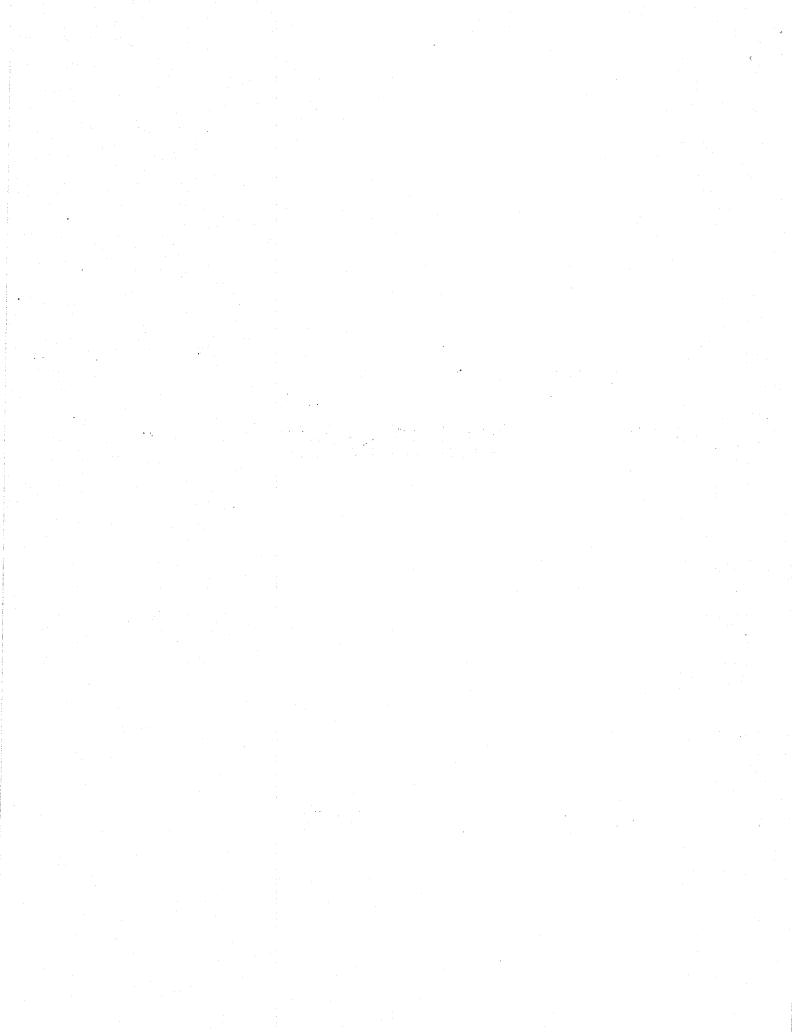
Ans: a) _____[1

b) _____[2]

c) ____[2]

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SCHOOL: SCGS PRIMARY SCHOOL

LEVEL : PRIMARY 6
SUBJECT : MATH

TERM: 2019 PRELIM

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8 .	Q9	Q10
2	3	4	4	1	4	3	1	3	1

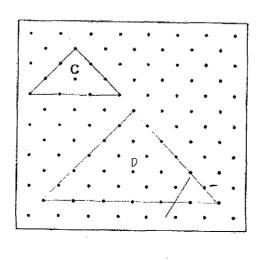
Q 11	Q12	Q13	Q14	Q15
3	2	1	1	2

PAPER 1 BOOKLET B

Q16)
$$\begin{vmatrix} \frac{2}{3} \times 18 + 28 \div 4 \\ = \frac{2}{3} \times 18 + 7 \\ = 12 + 7 = 19 \end{vmatrix}$$

Q17)
$$\frac{5}{6} \div 10 = \frac{5}{6} \times \frac{1}{10} = \frac{1}{12}$$

Q18)
$$6.1 - 4.2 = 1.9 \text{ cm}$$



	b) C : D 4.5 : 18
	= 1 : 4
Q22)	8+1+5=14
	$14 \times 4 = 56cm^2$
Q23)	$\frac{2}{7} \times 2 = \frac{4}{14} \qquad \qquad P \; : \; G$
	14: 9
Q24)	1000 - 800 = 200
	$\frac{200}{800} \times 100 = 25\%$
Q25)	1040 + 1000 + 960 + 800 = 3800
r	$3800 \div 4 = 950$
Q26)	$108 \div 4 = 27$
•	108 - 27 = 81
	$108 \div 2 = 54$
	$81 - 54 = 27cm^2$
Q27)	(PX3)+3+3+5=3P+11
	$(7\times2)+(8\times3)+(3\times4)$
	= 14 + 24 + 12
	= $50 \div 20 = 2.5 = 2\frac{1}{2}$ HOURS
Q29)	$16 \div 2 = 8$
	$24 \div 8 = 3$
	$(16-3) \div 2 = 6.5cm$
Q30)	
	✓

PAPER 2

Q1)	5-2=3			·	
	3u→12				
	$1u \rightarrow 12 \div 3 = 4$				
	4x (5x2) = 40				
·		· .			
Q2)	18 + 27 = 45				
	2u + 45 = 1u + 106				
	1u→106 45 = 61				
Q3)	\$y x 2 = \$2y				
٦٠,	$$2y \times 2 = $4y$			•	
	\$4y + \$2y + \$y = \$7y				
Q4)	½ →10.5kg				

van de le company	
	11
	$\left(\frac{1}{3}\right)$ 7.5kg
	7.5 kg x 3 = 22.5 kg
	10.5kg x 2 = 21kg
	22.5kg – 21kg = 1.5kg
Q5)	Diff→10 x 2 = 20
	256 - 20 = 216
	sets→ 216 ÷ (4+2) = 36
	Adults \rightarrow 36 x 1 = 36
Q6)	5nb→\$2 x 4 = \$8
Q0)	$5 \times 3 = 15 \text{nb}$
	8 x 3 = 24
	18 – 1 5 = 3
	$3 \times 2 = 6$
	18nb→24 + 6 = 30
	30 – 3 = \$27
Q7)	204° ÷ 2 = 102°
	$180^{\circ} - 102^{\circ} - 45^{\circ} = 33^{\circ}$
Q8)	11 – 10 = 1
	81 x 1 = 81
	221 – 81 = 140
	81 + 94 = 175
	$140 \div 175 = \frac{4}{5}$
	$\frac{4}{5}$ x 81 = 64.8
	64.8 + 81 = 145.8
00)	
Q9)	½ x 15 x 7.5 – ½ x 3.14 x 5 x 5
	= 56.25 – 39.25 = 17cm ²
	Total shaded→17 + (½ x 10 x 5)
	= 17 + 25 = 42cm ²
Q10)	$48 \div 6 \div 4 = 2$
α10)	(3x2) + (6x4) = 30
	$48 \div 30 = 1.6$ cm
Q11)	$a)\frac{85}{100}x \ 2.25 = 1.9125$
	100
٠	
	122.40 ÷ 1.9125 = 64L
	b)64 x 15.8 = 1011.2km

T	Taraba and the same and the sam	
Q12)	(180° – 64°)÷ 2 = 58°	
	180° - 64°- 60° = 56°	
	56° ÷ 2 = 28°	
	58° – 28° = 30°	
Q13)	(24 ÷ 2) x 5 = 60	
Q13)	1	
	$(60-33) \div 3 = 9$	
	$9 \times 4 = 36	
Q14)	a)12 x 12 = 144 cm ²	
	b)3+6+3+6+16+16 = 50cm	
Q15)	146 - 40 - 50 - 30 = 26	
	21+5=26	
	7(x) - 5 = 16	
	7x = 21	
	$X = \frac{21}{7}$	
	= 3kg	
	3.0	
Q16)	8.7 - 4.2 = 4.5	
	$4.2 \times 2 = 8.4$	
	8.4 - 4.5 = 3.9	
	$(3.9 \div 3) \times 2 = 2.6$	
	4.2 – 2.6 = 1.6m	
Q17)	$a)(25 \times 2) + 2 = 52$	
3(17)	b) $(217 - 1) \div 3 = 72$	
	$c)(48 \times 2) + 2 = 98$	
	98 + 48 = 146	

Name:	()
Class: Primary 6		

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 6 Mathematics

2019 Preliminary Examination

Paper 1

Booklet A

20 August 2019

15 questions 20 marks

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so. Follow all instructions carefully. Answer all questions.

Write your answers in this booklet.

The use of calculators is **NOT** allowed.

This booklet consists of 9 printed pages.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

- 1. What is 90 less than 749 900?
 - (1) 748 810
 - (2) 749 810
 - (3) 749 910
 - (4) 750 800

- 2. What is the best estimate for 285 x 36?
 - (1) 200 x 30
 - (2) 200 x 40
 - (3) 300 x 30
 - (4) 300 x 40

3. Mr Jabir collected 30 sacks of rice for charity. He gave 7 sacks of rice to an old folks' home and another 14y sacks of rice to a children's home. How many sacks of rice did he have left?

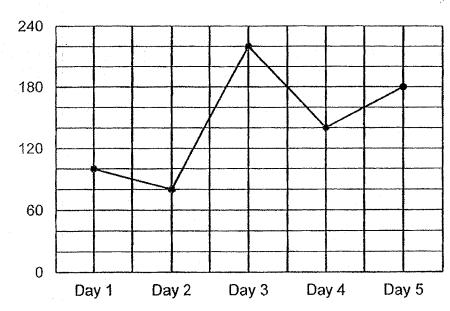
$$(1)$$
 $23 - 14y$

$$(2)$$
 $23 + 14y$

$$(3) 16y + 7$$

- (4) 9y
- 4. The line graph below shows the number of people attending a drama audition over 5 days.

Number of people



On which two days was there a difference of 40 people attending the audition?

- (1) Day 1 and Day 2
- (2) Day 2 and Day 3
- (3) Day 3 and Day 4
- (4) Day 4 and Day 5

- 5. In the morning, Mrs Tok sold 40 cakes. In the afternoon, she sold 50 cakes. What was the percentage increase in the number of cakes Mrs Tok sold?
 - (1) 20%
 - (2) 25%
 - (3) 120%
 - (4) 125%

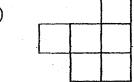
- 6. The ratio of the number of boys to the number of girls at a carnival was 5:4. Which one of the following is **not** a possible total number of children at the carnival?
 - (1) 153
 - (2) 144
 - (3) 126
 - (4) 118

The figure below shows a cube. 7.

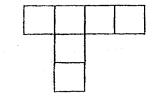


Which one of the following is a net of the cube?

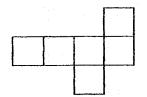




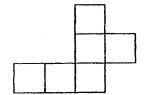
(2)



(3)



(4)



8. Arrange the following distances from the longest to the shortest.

5 km 65 m 5 km 5.15 km

	Longest		Shorte		
(1)	5.15 km ,	5 km 65 m	,	5 km	
(2)	5 km 65 m ,	5 km	•	5.15 km	
(3)	5 km ,	5.15 km		5 km 65 m	
(4)	5 km ,	5 km 65 m	•	5.15 km	

9. The table below shows the timings of three boys at a 100-metre race. Before the race, each of them had set a target of 12 seconds. One of the boys' timings is missing.

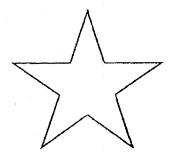
Name	Timing (s)
Min Shun	11.94
Xanthus	12.10
Wen Yang	?
Vijay	12.05

Min Shun was 0.12 s faster than Wen Yang. Which of the four boys' timing was the closest to the target set?

- (1) Wen Yang
- (2) Min Shun
- (3) Xanthus
- (4) Vijay

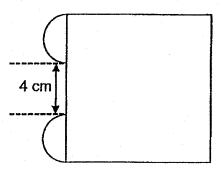
10. Hafsah walks at an average speed of 60 m/min. At this speed, how long does she take to walk 640 m?

- (1) 10 min
- (2) $10\frac{2}{5}$ min
- (3) $10\frac{2}{3}$ min
- (4) 11 min
- 11. A number of pupils formed a star shape with the same number of pupils on each of the sides. There were 15 pupils on each side of the star. All the sides of the star are equal. How many pupils formed the star shape?

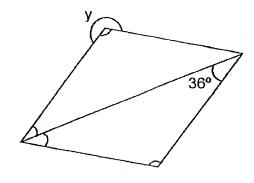


- (1) 130
- (2) 140
- (3) 145
- (4) 150

12. The figure below is made up of a square and two identical semicircles. The area of the square is 64 cm². What is the area of the two semicircles? Leave your answer in terms of π .



- (1) $\pi \text{ cm}^2$
- (2) $2\pi \text{ cm}^2$
- (3) $3\pi \text{ cm}^2$
- (4) $4\pi \text{ cm}^2$
- 13. The figure below shows a rhombus. Find $\angle y$.

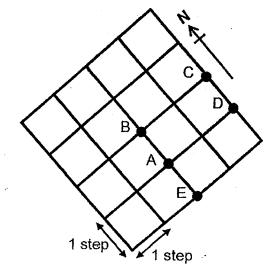


- (1) 216°
- (2) 252°
- (3) 288°
- (4) 324°

14. Cynthia followed the instructions below and ended at Point A in the end:

- (i) Walk 2 steps to the West
 - (ii) Walk 1 step to the North
 - (iii) Walk 2 steps to the East

At which point did she start at first?

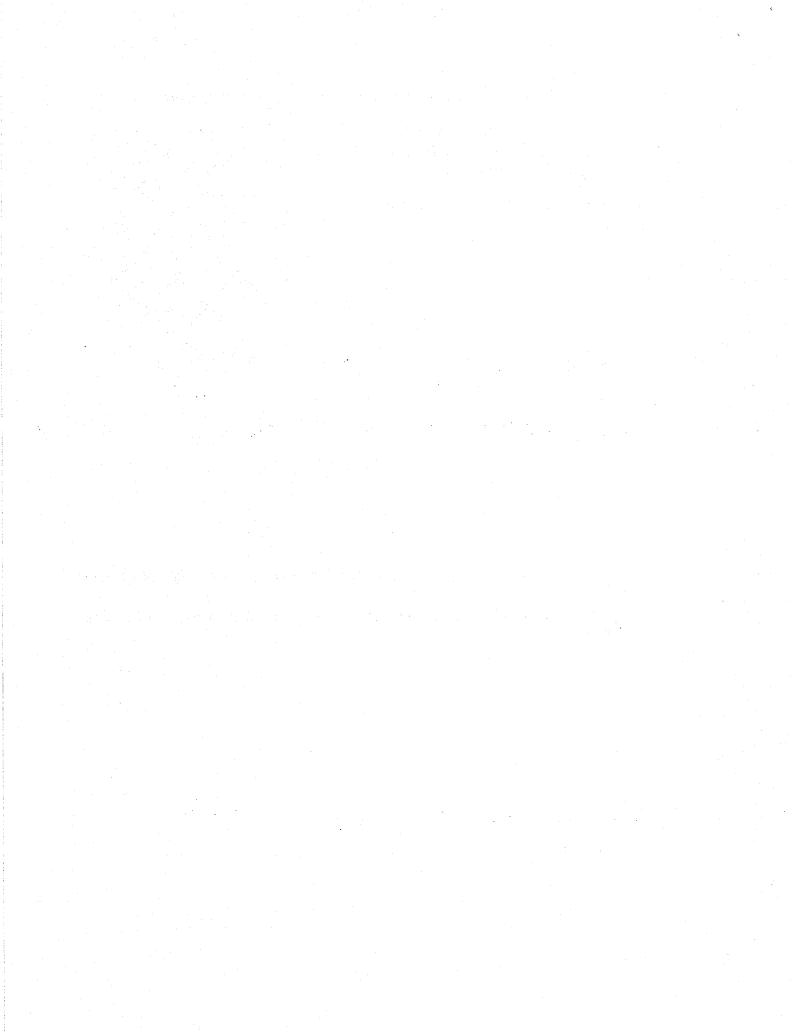


- (1) E
- (2) D
- (3) C
- (4) B

15.
$$\frac{1}{3}$$
 of the length of a table cloth is 45 cm shorter than $\frac{1}{2}$ of the length of a banner.

The total length of the table cloth and the banner is 390 cm. What is the length of the banner?

- (1) 160 cm
- (2) 183 cm
- (3) 210 cm
- (4) 237 cm



Name:	()
Class: Primary 6	

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 6 Mathematics 2019 Preliminary Examination

Paper 1

Booklet B

20 August 2019

Booklet A	20
Booklet B	25
Total (Paper 1)	45

15 questions 25 marks

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so. Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of calculators is **NOT** allowed.

Questions 16 to 20 carry 1 ma	rk each. Show	your working cle	early and write your
answers in the spaces provided.	For questions v	vhich require unit	s, give your answers
in the units stated.			(5 marks)

Do not write in this space

16. Simplify $20 + 8 \times 10d \div 5 - d$.

Ans:______

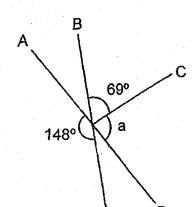
17. Write 690 thousandths as a decimal.

Ans: ___

18. Express 0.1% as a fraction.

Ans: _____

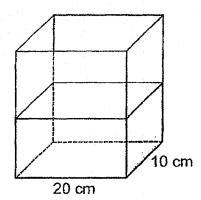
19. AD and BE are straight lines. Find ∠a.



Ans:			•	3
MII5.	 			

Do not write in this space

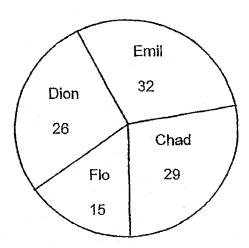
20. The container below is filled with 1700 ml of water. What is the height of the water level in the container?



21. Write down all the common factors of 28 and 70.

•			
Ans:			
THO.			

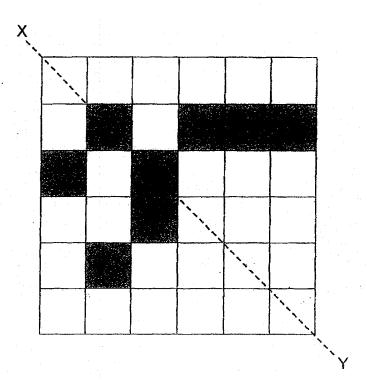
22. The pie chart below shows the number of cans 4 children collected for a recycling activity. What is the ratio of the total number of cans the 4 children collected to the number of cans Flo collected? Leave your answer in the simplest form.



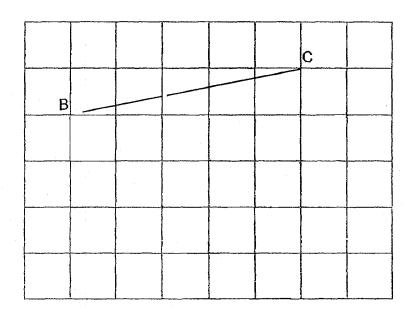
Ans	:		

23. The figure below is made up of squares. Shade four more squares to form a symmetric figure with XY as the line of symmetry.

Do not write in this space

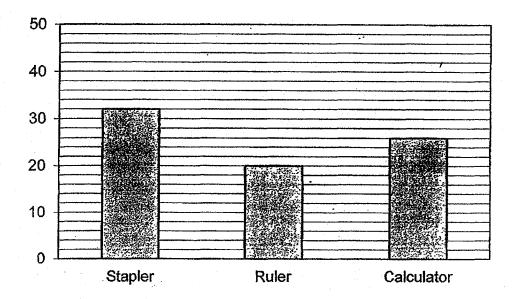


24. In the square grid below, two sides of a triangle have been drawn. Complete the drawing of triangle ABC such that CA is perpendicular to AB. Then draw another three lines to form a rectangle ACDE.



25. The graph below shows the number of staplers, rulers and calculators sold at Good Deal Bookshop.

Do not write in this space



The table shows the prices of the stationery.

Type of stationery	Price per stationery
Stapler	\$2
Ruler	\$0.90
Calculator	\$30

How much more money was collected from the total sale of staplers and calculators than the sale of rulers?

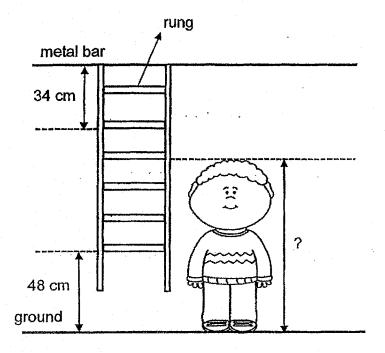
Ans: \$________

					•		
				• •		•	
						•	
				Ans: _		·	
fir w or	rst. 27 blue ere put into range cubes	ned a total of cubes were re the bag. The s to the number be bag contain a	removed fr ratio of the er of green	om the bag e number o	and another of blue cubes	r 39 green cu to the numbe	bes r of

Ans:

Do not write in this space 28. The ladder beside Blake is hanging from a metal bar. The last rung is 48 cm above the ground. What is Blake's height?

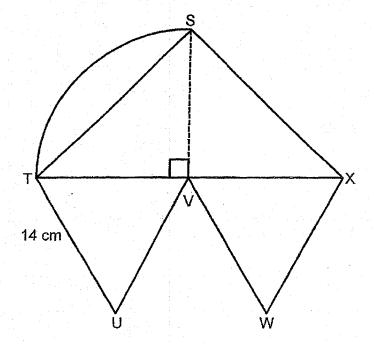
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MANDER

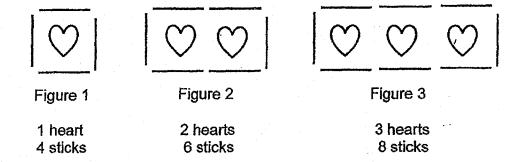
29. The figure below is made up of a quarter circle, a triangle SVX and two equilateral triangles TVU and VXW. The perimeter of the figure is 98 cm and TU = 14 cm. What is the length of SX? (Take $\pi = \frac{22}{7}$)

Do not write in this space



30.	Shing Wen had some hearts and 50 sticks. He used the hearts and sticks to
	make three figures that follow a pattern as shown below. Then he pasted the
	three figures onto a cardboard.

Do not write in this space



Each statement below is either True, False or Not possible to tell. For each statement, put a tick (\checkmark) in the correct column.

Statement	True	False	Not possible to tell
Shing Wen used all the hearts he had to make the three figures.			
Shing Wen would have enough sticks to continue with the pattern to make Figure 6.			

Name:		 	- 1	1)
					-
Class: Prim	arv 6				

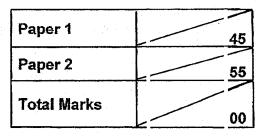
CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 6 Mathematics 2019 Preliminary Examination

Paper 2

20 August 2019



Parent's/Guardian's Signature

Time: 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet
The use of an approved calculator is expected, where appropriate.

Questions 1 to 5 carry 2	marks each. Sh	ow you	ır workir	ig clea	rly and wr	ite your ar	iswers
in the spaces provided.	For questions	which	require	units,	give your	answers	in the
units stated.						(10 r	narks)

Do not write in this space

1. Anan entered a number into his calculator. He added 11 to the number and then multiplied the sum by 22. Finally, he subtracted 48 from the product. In the end, he obtained 766 as the answer. What was the number Anan' entered into his calculator?

Ans:

- 2. A chef had a total mass of 6.05 kg of flour and sugar. He used $\frac{3}{4}$ of the flour and
 - $\frac{1}{3}$ of the sugar to bake muffins. He had the same amount of flour and sugar left.

How much flour did he have at first?

Ans:____kg____g

3. At an exhibition, the ratio of the number of men to the number of women was 10:3. Halfway through the exhibition, 110 men left and the number of men was 5/12 of the total number of people who remained behind. How many women were there at the exhibition?

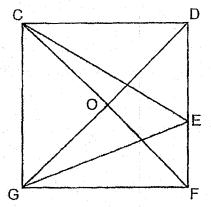
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write in

this space

4. CDFG is a square with O in the centre. CGE and CGO are triangles. What fraction of the square CDFG is unshaded?

Ans:



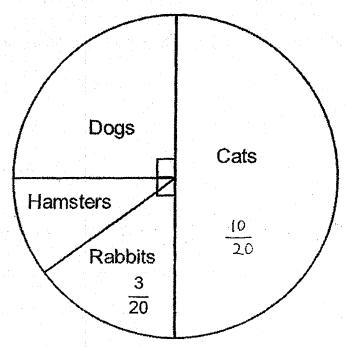
Ans : ______

At 5.50 p.m., Mr Diresh left his office to drive 50 km back to his house. He had Do not 5. write in to pass by a factory and a library. The library was 45 km away from his office this space and was exactly in the middle of the factory and his house. It was 6.20 p.m. when he passed by the factory. What was the average speed that he was driving at from his office to the factory? km/h Ans:

For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in the brackets () at the end of each question or part-question. (45 marks)

Do not write in this space

6. The pie chart below shows the different animals adopted by an animal shelter.



- (a) What fraction of all the animals adopted were hamsters?
- (b) A total number of 84 cats and hamsters were adopted. How many animals were adopted altogether?

Ans: (a)	 [[]	

7. The table below shows the charges for domestic usage of water.

Amount of water used	Charges
Up to 40 m³	146¢ per m³
Above 40 m³	102¢ per m³

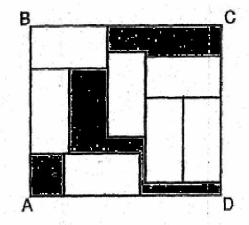
The Eng family paid a total amount of \$86.96 in June. How much water did the family use in June?

Ans: ___[3]

Do not write in this space

8. Some identical small rectangles lie within a large rectangle ABCD as shown. The length of each rectangle is 24 cm. What is the area of the shaded part?

Do not write in this space



Ans : _____ [3

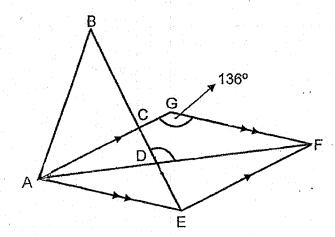
9.	Hathi had 180 twenty-cent coins and some five-cent coins. 80% of her coins were five-cent coins. Hathi used up 75% of the five-cent coins. What was the total value of the five-cent coins that she used up?	Do not write in this space
	Ans : [3]	

10. In the figure below, ABC is a right-angled triangle. All the sides of AEFG are equal. AF and BE are straight lines.

Do not write in this space

(a) Name an isosceles triangle in the figure.

(b) Find ∠BDF

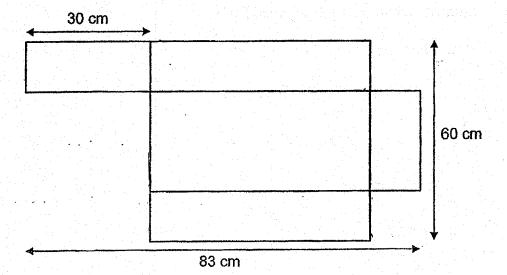


Ans ; (a) Triangle ____ [1]

(b) ______[2]

11. The figure below shows the net of an open rectangular box. Find the volume of the box.

Do not write in this space



Ans:____[3]

12.	Irin is age c	now 2 <i>r</i> years old. She is 10 years younger than Kexin. Junita is half the total firin and Kexin.	Do not write in this space
	(a)	How old is Junita now? Leave your answer in terms of r.	• • • • • • • • • • • • • • • • • • •
	(b)	Given $r = 7$, what was the total age of the three girls 4 years ago?	
villa Villa			
			tin to
e e			

Ans : (a) ____

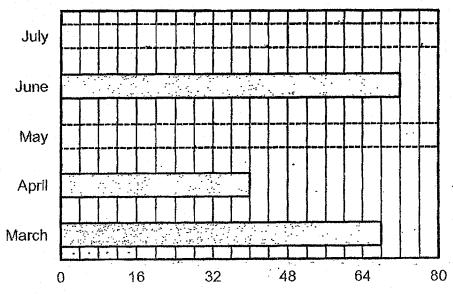
(b) _____

[2]

[2]

13. The bar graph below shows the number of visitors at a museum over five months. The two bars that show the number of visitors in May and July have not been drawn.

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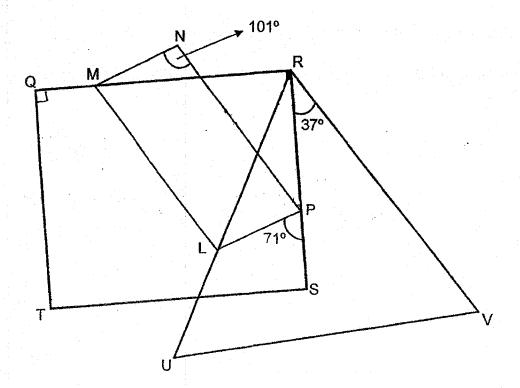


Number of visitors (in thousands)

- (a) In May, the number of visitors decreased by 30% from April. There were 16 000 fewer visitors in May than in July. Draw the two bars representing the number of visitors in May and July. [3]
- (b) Write down all the months in which there were at least 44 000 visitors at the museum.

Ans:_____[1]

- (a) Find ∠URQ.
- (b) Find ∠MLR.



Ans : (a) ______[1]

15. Ivana has \$189 and Janie has \$93 at the end of January. Starting from February, Ivana saves \$4 every week and Janie saves \$10 every week.

Do not write in this space

- (a) Janie wants to have the same total amount of money as Ivana.
 - (i) How many weeks does Janie need to save so that she will have the same total amount of money as Ivana?
 - (ii) What is this total amount of money Janie will have?
- (b) Janie wants to have \$120 more than Ivana. How much money will Ivana have?

Ans : (a) (i)	
(ii)	
	ro1

16. Matthias spent one week to read a book. He read some pages every day, starting on Monday.

On Monday, the ratio of the number of pages read to the number of pages not read was 1:5.

After he had read another 120 pages on Tuesday, 70% of the book was not read. For the rest of the week, he read the same number of pages every day. How many pages did Matthias read every day for the rest of the week?

Do not write in this space

Ans	•	[5]
WI 19		10

Do not At a camp, Mrs Sitoh arranged the pupils into 4 equal groups of boys and 5 equal 17. write in groups of girls. In every group of girls, the number of girls was 5 more than the this number of boys in each group. $\frac{3}{8}$ of all the pupils at the camp were boys. How space many pupils were there altogether at the camp?

End of Paper

SCHOOL: CHIJ PRIMARY SCHOOL

LEVEL :

PRIMARY 6

SUBJECT: MATH

TERM: 2019 PRELIM

PAPER 1 BOOKLET A

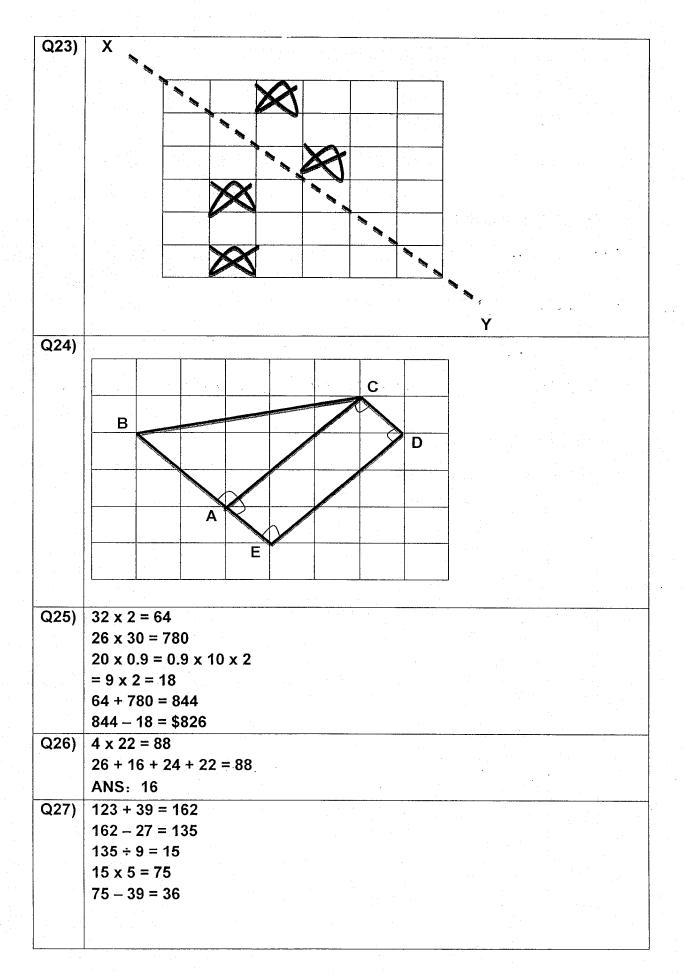
Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	4	1	4	2	4	3	1	4	3

Q 11	Q12	Q13	Q14	Q15
2	1	2	1	3

PAPER 1 BOOKLET B

Q16)
$$20 + 8 \times 10d \div 5 - d$$

 $= 20 + 80d \div 5 - d$
 $= 20 + 16d - d$
 $= 20 + 15d$
ANS: $(15d + 20)$
Q17) $0.001 \times 690 = 0.001 \times 10 \times 69$
 $= 0.01 \times 69$
 $= 0.69$
Q18) $0.1\% = \frac{1}{1000}$
Q19) $180^{\circ} - 148^{\circ} = 32^{\circ}$
 $32^{\circ} + 69^{\circ} = 101^{\circ}$
 $180^{\circ} - 101^{\circ} = 79^{\circ}$
Q20) $1700 \div 20 \div 10 = 17 \div 2$
 $= 8.5 \text{ cm}$
Q21) $1, 2, 7 \text{ and } 14$
Q22) $26 + 32 + 29 + 15 = 102$
 $102 : 15$
 $= 34 : 5$



D-1

Q28)	$34 \div 2 = 17$			
	17 x 3 = 51			
	51 + 48 = 99			
	99cm = 0.99n	n		
Q29)	$\frac{1}{4} \times \frac{22}{7} \times 28 = \frac{2}{7}$	$\frac{2}{7} \times \frac{7}{1} = 22$		
	98 – 22 – 14 - = 20 cm	- 14 – 14 – 1	4 = 98 – 78	
Q30)	True	False	Not	
			V V	
•		V		

PAPER 2

Q1)	766 + 48 = 814
Q 1)	814 ÷ 22 = 37
	37 - 11 = 26
Q2)	$\frac{1}{4}$ of the flour = $\frac{2}{3}$ of the sugar
	$\frac{2}{8}$ of the flour = $\frac{2}{3}$ of the sugar
	8 + 3 = 11
	$6.05 \div 11 = 0.55$
	$0.55 \times 8 = 4.4$
	4.4kg = 4kg 400g
Q3)	M: W M: W12-5=7
	<u>10 : 3 70 : 21</u> 70 - 15 = 55
	5: 7
	$2 \times 21 = 42$
Q4)	$1 - \frac{1}{4} = \frac{3}{4}$
Q5)	50 - 45 = 5
	45 - 5 = 40
	$40 \div 30 = 1\frac{1}{3}$
	$1\frac{1}{3} \times 60 - 80 \text{ km/h}$

Q6)	a) $\frac{1}{4} - \frac{3}{20} = \frac{1}{10}$			 -				
	b)10 + 2 = 12							
	84 ÷ 12 = 7							
	7 x 20 = 140							
	7 7 20 % 1-10							
Q7)	146¢ = \$1.46	· · · · · · · · · · · · · · · · · · ·		 		<u> </u>		
.	102¢ = \$1.02							
	\$1.46 x 40 = \$58.40							
	\$186.96 - \$58.40 = \$28.56							
	\$28.56 ÷ \$1.02 = 28							
	28 + 40 = 68m ³							
Q8)	24 ÷ 2 = 12			 				
,	24 x 12 = 288							* 4
	288 x 7 = 2016							
	24 + 12 + 24 = 60							
	24 + 12 + 12 = 48							
1	60 x 48 = 2880							
	2880 - 2016 = 864cm ²							
	2000 20.0 00.000							
Q9)	$20\phi : 5\phi$ $180 \div 2 = 90$.			· · · · · · · · · · · · · · · · · · ·	
,	2 : 8							
	X10 x90							
	180 : 720							
	75 700 540							
	$\frac{75}{100}$ x 720 = 540							
	540 x \$0.05 - \$27							
Q10)	a)AEF							
	b)180° – 136° = 44°							
	$44^{\circ} \div 2 = 22^{\circ}$							
	$180^{\circ} - 90^{\circ} - 22^{\circ} = 68^{\circ}$							
	180° – 68° = 112°							
				•				
Q11)	60 - 30 = 30	····		 ·	·	· ·	·	
Q11)	60 - 30 = 30 $30 \div 2 = 15$	<u> </u>		 -			<u> </u>	
Q11)	'	<u>, , , , , , , , , , , , , , , , , , , </u>	1.50				<u> </u>	
Q11)	30 ÷ 2 = 15	<u>. •</u>					<u> </u>	
Q11)	$30 \div 2 = 15$ 83 - 30 - 15 = 38	<u>, ; . , </u>					<u> </u>	
Q11)	$30 \div 2 = 15$ 83 - 30 - 15 = 38	· · · · · · · · · · · · · · · · · · ·						

120 ÷ 2 = 60
60 ÷ 2 = 30

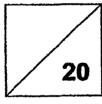
$$\frac{7}{10}$$
x3 = $\frac{21}{30}$
30 x 21 = 630
 $7 - 2 = 5$
630 ÷ 5 = 126
Q17) $\frac{5}{8}$ > 20 units = 15 units + 25
5 units = 25
1unit = 25 ÷ 5 = 5
5 x 32 = 160



2019 PRIMARY 6 PRELIMINARY EXAMINATION

Name:	()	Date: 22 August 2019
Class: Primary 6 ()		Time: <u>8.00 a.m. – 9.00 a.m.</u>
Parent's Signature:		-

PAPER 1 (BOOKLET A)



INSTRUCTIONS TO CANDIDATE

- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Show your working clearly as marks are awarded for correct working.
- 6. You are NOT allowed to use a calculator.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet. (20 marks)

- Q1. Round 588 619 to the nearest thousand.
 - (1) 580 000
 - (2) 588 000
 - (3) 589 000
 - (4) 590 000
- Q2. Which of the following is equal to $\frac{11}{4} \div \frac{1}{4}$?
 - (1) $\frac{11}{4} \times \frac{4}{1}$
 - (2) $\frac{11}{4} + \frac{4}{3}$
 - (3) $\frac{4}{11} \times \frac{1}{4}$
 - (4) $\frac{4}{11} \div \frac{1}{4}$
- Q3. Which of the following is the same as 20 kg 30 g?
 - (1) 2 030 g
 - (2) 2 300 g
 - (3) 20 030 g
 - (4) 20 300 g

Q4. Express $10\frac{1}{20}$ as a decimal.

- (1) 10.02
- (2) 10.05
- (3) 10.20
- (4) 10.50

Q5. Which of the following is greater than $\frac{7}{8}$?

- (1) $\frac{2}{3}$
- (2) $\frac{4}{5}$
- (3) $\frac{5}{6}$
- (4) $\frac{8}{9}$

Q6. The diameter of a wheel is 56 cm. What is the circumference of the wheel? $(\text{Take } \pi = \frac{22}{7})$

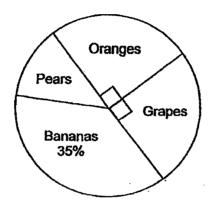
- (1) 88 cm
- (2) 176 cm
- (3) 352 cm
- (4) 784 cm

Q7.	Siti is facing north-east after turning 270° anti-clockwise.
	What direction was she facing at first?
	(1) West
	(2) South
	(3) South-east
	(4) North-west
Q8.	There are 35 students in a class. 15 of them are girls while the resi
	The state of the s
	-
	-
	What is the ratio of the number of boys to the number of girls in the
	What is the ratio of the number of boys to the number of girls in the (1) 3:4
	What is the ratio of the number of boys to the number of girls in the (1) 3:4 (2) 3:7
	What is the ratio of the number of boys to the number of girls in the (1) 3:4 (2) 3:7 (3) 4:3 (4) 4:7
	What is the ratio of the number of boys to the number of girls in the (1) 3:4 (2) 3:7 (3) 4:3
	What is the ratio of the number of boys to the number of girls in the (1) 3:4 (2) 3:7 (3) 4:3 (4) 4:7 After spending 60% of his savings on some books, Peter has \$400 to
	What is the ratio of the number of boys to the number of girls in the (1) 3:4 (2) 3:7 (3) 4:3 (4) 4:7 After spending 60% of his savings on some books, Peter has \$400 to the books?
	What is the ratio of the number of boys to the number of girls in the (1) 3:4 (2) 3:7 (3) 4:3 (4) 4:7 After spending 60% of his savings on some books, Peter has \$400

(4) \$1 000

Q10. The pie chart represents the number of fruits sold by a fruit stall.

If 30 oranges were sold, how many pears were sold?



- (1) 15
- (2) 18
- (3) 30
- (4) 55
- Q11. Siying and Anna were standing in a queue to enter a concert.

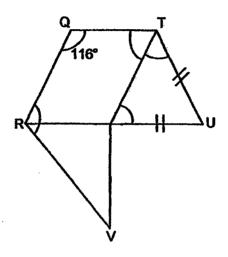
 Siying was exactly in the middle of the queue.

 Anna was the 43rd person after Siying and there are another 20 people after Anna. How many people were there in the queue?
 - (1) 63
 - (2) 65
 - (3) 126
 - (4) 127

Q12. The following figure is made up of three shapes. QRST is a parallelogram.

STU is an isosceles triangle. RSV is a right-angled triangle.

RSU is a straight line. Which one of the following angles cannot be found?



- (1) ∠STU
- (2) ∠STQ
- (3) ∠QRV
- (4) ∠RST

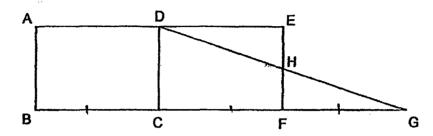
Q13. The first 14 numbers of a number pattern are given below. How many number '8' are there in the first 130 numbers?

8	1	0	8	8	1	0	8	8	1	0	8	. 8	1	
 1st				•					. P				14 th	

- (1) 33
- (2) 52
- (3) 64
- (4) 65

Q14. The figure below shows 2 rectangles of the same size. BC = CF = FG.

The area of Rectangle ABCD is 100 cm². What is the area of triangle FGH?



- (1) 25 cm²
- (2) 50 cm²
- (3) 75 cm²
- (4) 100 cm²
- Q15. The average mass of Fruit A and Fruit B is 6 kg.

 The mass of Fruit A mass is half the mass of Fruit B.

 Find the mass of Fruit B.
 - (1) 8 kg
 - (2) 2 kg
 - (3) 3 kg
 - (4) 4 kg

- END OF BOOKLET A -



2019 PRIMARY 6 PRELIMINARY EXAMINATION

Name:() Date: <u>22 August 2019</u> Class: Primary 6 () Time: <u>8.00 a.m. – 9.00 a.m</u> Parent's Signature:		MA	THE	MA	TIC	cs /
Class: Primary 6 () Time: 8.00 a.m. — 9.00 a.m.	Parent's Signature:					
· · · · · · · · · · · · · · · · · · ·	Dorontin Signature					
Name: () Date: <u>22 August 2019</u>	Class: Primary 6 ()				Time: 8.00 a.m. – 9.00 a.m.
	Name:	·		()	Date: <u>22 August 2019</u>

PAPER 1

25

(BOOKLET B)

INSTRUCTIONS TO CANDIDATE

- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Show your working clearly as marks are awarded for correct working.
- 6. You are NOT allowed to use a calculator.

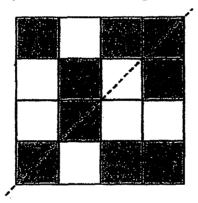
Ques	Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated (5 marks)			
	25% of a number is 24. What is $\frac{1}{3}$ of the number?			
	· ·			
		Ans:		
Q17.	A car is travelling at a speed of 70 km/h. How long will the car take to travel 35 km?			
		A.v.o. min		
		Ans: min		
Q18.	Express $\frac{6}{7}$ as a percentage.			
	. Y			
		Ans: %		

Q19. Arrange the following numbers in descending order.

0.107, 10.07, 1.07, 10.70

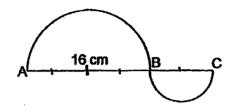
	 · •	
Greatest		

Q20. Shade 2 more squares such that the figure below is symmetrical.



Questions 21 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)				
Q21.	Find the value of 98 – 24 + 2 + (51 – 47)			
		Ans:		
	Find the value of $\frac{m}{5} \times m + 3$ when $m = 15$.			
	5			
		Ans:		
Q23.	Tom can paint a room in 2 hours white Ali can paint If Tom and Ali paint the room together, what frac paint in 1 hour?			
		Ans		

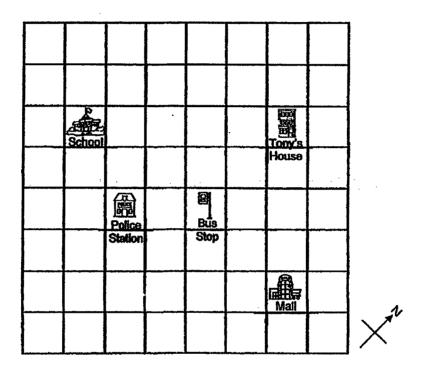
Q24. The figure below shows 2 semicircles. AB is twice of BC. Find the area of the figure. Leave your answer in terms of π .



Q25. A rectangle has a breadth of (2y + 1) cm long. Its length is y cm longer than its breadth. What is its perimeter in terms of y?

Ans: _____cm

Q26. Four landmarks of Tony's neighbourhood are shown in the square grid below.

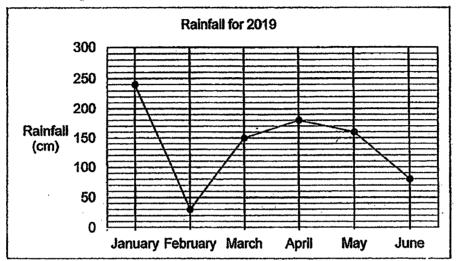


- a) In which direction is Tony's house from the school?
- b) A clinic is to be built directly south of Tony's house and south west of the Mall. Mark on the grid with an 'X' to show where the clinic will be built.

Ans: a) _____

:				
	Q27.	Andy gave 30% of his money to his si	ster and spent	40% of the remainder.
		What percentage of his money was left?	•	
:				
1				
İ		•		
•				
1				
: ! !				
1		•		•
r.				Ans:%
<u> </u>				
	Q28.	A shopping mall provides a shuttle bus s	ervice from the	e mall to the MRT
!		station every 50 minutes.		
		The first shuttle bus leaves the mall at 1	1 a.m. and then	re are 12 shuttle
:		services each day.		
		At what time is the last shuttle service?		
<u>.</u>				
			•	
		<i>:</i>		
į				
				•
				A
				Ans: p.m.
!				
:				

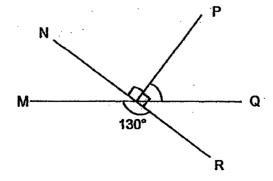
Q29. The graph below shows the amount of rainfall for Singapore in 2019 from January to June.



What was the average monthly rainfall from January to June?

Ans:		cm
------	--	----

Q30. In the figure below, not drawn to scale, MQ and NR are straight lines. ∠POR is a right-angle. Find ∠POQ.



Ans:°	
-------	--

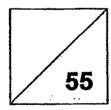
- END OF BOOKLET B -



2019 PRIMARY 6 PRELIMINARY EXAMINATION

Name:	()	Date: <u>22 August 2019</u>
Class: Primary 6 ()		Time: <u>10.30 a.m. – 12.00 noor</u>
Parent's Signature:		 	-
		•	

MATHEMATICS PAPER 2



INSTRUCTIONS TO CANDIDATE

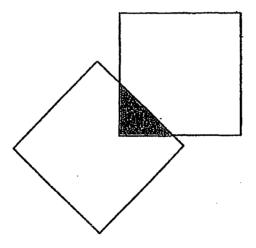
- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Show your working clearly as marks are awarded for correct working.
- 6. You are allowed to use a calculator.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Q1. How many common factors of 44 and 88 are there?

Ans:	

Q2. The figure below shows 2 identical squares. The shaded area is 15% of each square. Find the ratio of the shaded area to the area of the figure.



Ans:	
------	--

Q3. The following drawing shows an incorrect net of a cube. Mark 'X' on the face(s) which is/are incorrect. Q4. Mrs Tan is 4 times as old as her son. Her son is 8 years old. In how many years' time would her son be $\frac{1}{3}$ of Mrs Tan's age? Ans: _____ years' time Q5. The figures are made up of squares. Study the pattern. How many squares are there in Figure 13?

Ans: _____

Figure 3

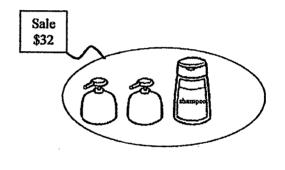
Figure 2

For questions 6 to 17, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question.

(45 marks)

Q6. A bottle of body wash costs \$11 and a bottle of shampoo costs \$18.

During a sale, 2 bottles of body wash and a bottle of shampoo are sold at a discounted price of \$32. What is the percentage discount given during the sale?



Ans: _____[3]

- Q7. A leaking tap leaks 2 ml of water in 1 second.
 - a) How many litres of water is wasted if the tap leaks for a whole day?
 - b) If the water costs 20 cents per litre, how much would the wasted water cost?

Ans: a) _____ [2]

b)_____[1]

Q8. Mr Chan drove from Town M to Town P at a speed of 65 km/h.

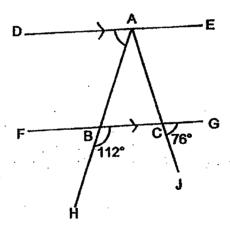
Mr Lim drove 340 km from Town P to Town Q at a speed of 85 km/h.

If both drivers took the same time to drive to their respective destinations, what is the distance between Town M and Town P?

Ans:_____[3]

Q9. DE and FG are parallel lines. ∠HBC is 112° and ∠GCJ is 76°.

- a) Find ∠BAC.
- b) Find ∠DAB.



Ans: a) _____[2]

b) _____[1]

Q10.	At a party, $\frac{1}{3}$ of the people were men. $\frac{3}{5}$ of the remainder were women and	the
	rest were children. There are 55 adults. How many children were at the part	y?
	. •	
•	Ans:	701
	740	[3]
	An adult ticket costs \$58. A total of \$17 690 was collected from all the tickets sold.	
	a) Find the cost of a child's ticket.b) How many children were in the audience?	
	b) The many charact were in the addicates	
	Ans: a)	[1]

Q12. Company A and Company B sent their recyclable waste for recycling in the quantities shown in the table below.

	Plastic (kg)	Paper (kg)	Glass (kg)
Company A	90	75	56
Company B	100	50	84

Both companies were paid for their recyclable waste according to the charges as shown in the table below.

Recyclable	Price per kg
Plastic	\$0.30
Paper	\$0.80
Glass	\$1.00

- a) Which Company, A or B, received more money for their recycling efforts? How much more?
- b) Study the above information carefully.

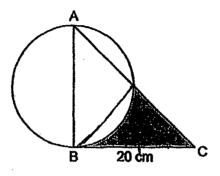
Each of the statements below is either True, False or Not Possible to Tell from the information given.

For each statement, put a tick (\checkmark) to indicate your answer.

		True	False	Not Possible to Tell
(1)	Company A collected more money from recycling plastic waste than glass waste.			
(ii)	Company A collected 50% more paper waste than Company B.			

Ans: a) Company	_[1]
Amount:	_[1
h) Hick your anewors)	13.

Q13. The figure shows a circle and a right-angled isosceles triangle. AB = BC = 20 cm. Find the shaded area. (Take π = 3.14)



Q14.	The average mass of Ahmad, Brian, Caili and Devi is 38 kg.
	The average mass of Ahmad, Brian and Caill is 37 kg while the total mass of
	Caill and Devi is 77 kg.

- a) Find Caill's mass.
- b) Brian and Devi have the same mass. Find Ahmad's mass.

Ans: a)	[2
b)	[2]

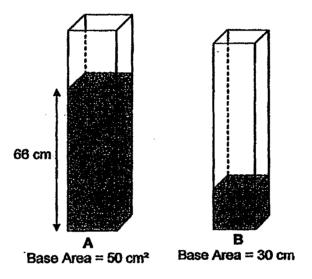
Q15.	A bakery baked buns and cakes in the morning in the ratio 4:1.
	After selling 50 buns and 10 cakes in the afternoon, the ratio of the number of
	buns to the number of cakes left became 3 : 1.

- a) Find the number of buns that the bakery baked in the morning.
- b) Find the number of cakes left.

Ans: a)	[3
b)	

Q16. A and B are two rectangular containers. At first, the water level in Container A and B is as shown. The amount of water in Container A is 5 times that of the water in Container B. Then Keith poured some water from Container A into Container B until the water level in both containers are of the same height.

- a) Find the volume of water in Container B.
- b) Find the increase in water level of Container B.



Ans: a) [1]

Q17. Doughnuts and cupcakes were sold in packs by ABC Bakery. Mrs Kumar, Mrs Fauziah and Mrs Leong bought doughnuts and cupcakes at the prices

shown below.

Doughnuts

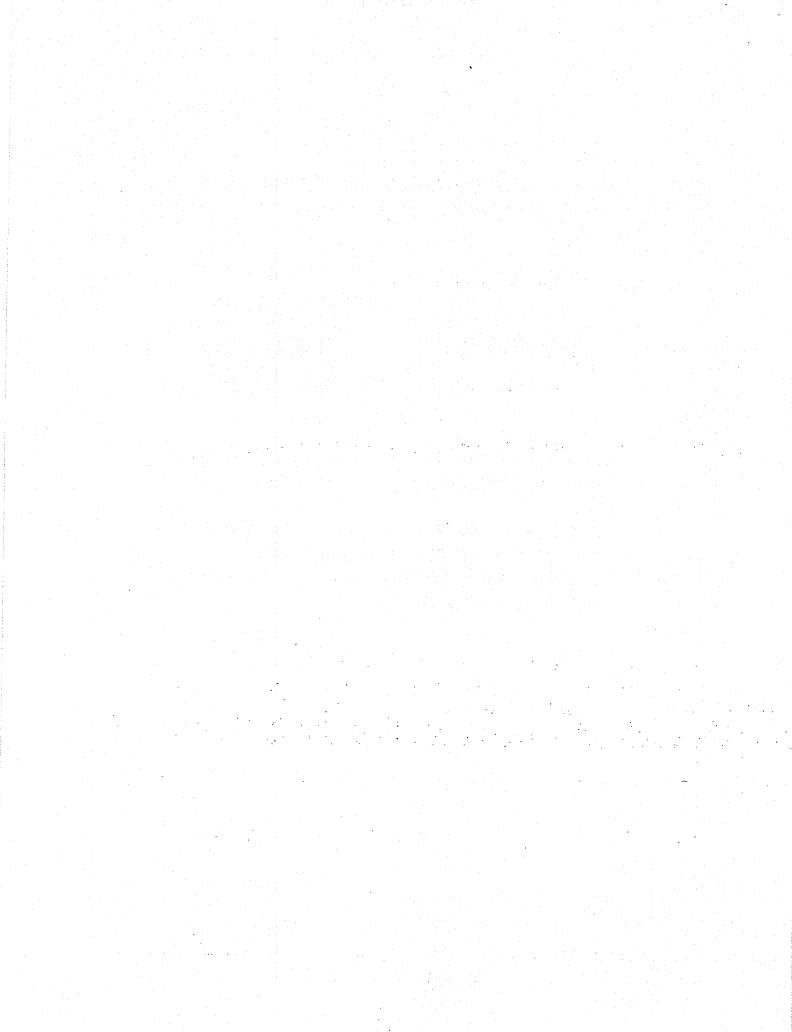
4 packs for \$12

Cupcakes



6 packs for \$15

- a) Mrs Kumar wanted to spend an equal amount of money on doughnuts and cupcakes. Find the minimum number of packs of cupcakes she bought.
- b) Mrs Leong bought some packs of doughnuts and Mrs Fauziah spent \$84 on doughnuts. Mrs Fauziah then gave Mrs Leong 20 doughnuts. In the end, Mrs Fauziah had 88 more doughnuts than Mrs Leong. How many packs of doughnuts did Mrs Leong buy?



SCHOOL:

TAO NAN PRIMARY SCHOOL

LEVEL :

PRIMARY 6

SUBJECT:

MATH

TERM :

2019 PRELIM

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	1	3	2	4	2	4	3	3	2

Q 11	Q12	Q13	Q14	Q15
4	3	. 4	1	1

PAPER 1 BOOKLET B

= 98 - 12 + 4 = 90

Q16)	$24 \div 25 \times 100 = 96$
	$\frac{1}{3}$ of 96 = 96÷ 3 = 32
Q17)	35km ÷70km/h = 0.5h
	= 30 min
Q18)	85 ⁵ / ₇ %
Q19)	10.7 , 10.07 , 1.07 , 0.107
Q20)	
Q21)	98 - 24 ÷2 + (51 - 47)

Q22)	$\frac{15}{5}$ x 15 + 3 = 15 x 3 + 3 = 48
	5 7 10 10 10 10 10 10 10 10 10 10 10 10 10
Q23)	Tom Ali
420,	
	In 1 hour $\rightarrow \frac{1}{2}$ of room in 1 hour $\rightarrow \frac{1}{3}$ of room
1	1 1 2 2 5
	$\left \frac{1}{2} + \frac{1}{3} \right = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$
Q24)	
	8cm ÷ 2 = 4cm
	Area = $(\pi \times 8 \text{cm} \times 8 \text{cm} + \pi \times 4 \text{cm} \times 4 \text{cm}) \div 2$
	= $(64\pi \ cm^2 + 16\pi \ cm^2) \div 2$ = $80\pi \ cm^2 \div 2 = 40\pi \ cm^2$
	- 60% CM + 2 - 40%CM
Q25)	Perimeter (in cm) = (2y +1) x 4 + 2 x y
	= 8y + 4 + 2y
	=(10y + 4)cm
000)	
Q26)	a)
	House
,	Pile Bis Station Step
	Maple 1
	<u> </u>
	b)North-east
Q27)	$40\% \ of \ 70 = \frac{70}{5} \times 2 = 28$
	100% - 28% - 30% = 42%
Q28)	8.10p.m
,	•
Q29)	(240cm + 30cm + 150cm + 180cm + 160cm + 80cm) ÷6
	= 840cm ÷ 6 = 140cm

٠,

Q30)	<noq 130°<="" =="" th=""><th></th></noq>	
	<POQ = 130° $-$ 90° = 40°	
	·	

PAPER 2

Q1)	6
Q2)	100% - 15% = 85% Shaded area : Area of figure 15 : 85+15+85 15 : 185 3 : 37
Q3)	
Q4)	8 x 3 = 24 24 ÷ 2 = 12 12 - 8 = 4
Q5)	No. of squares = 13 x 13 = 169
Q6)	Usual price = \$11 x 2 + \$18 = \$40 Percentage discount = $\frac{40-32}{40}$ x 100% = 20%
Q7)	a)86400 x 2m <i>l</i> = 172800ml = 172.8 <i>l</i> b)0.20 x 172.8 = \$34.56
Q8)	Time taken = 340km ÷ 85km/h = 4h Distance between M and P = 65km/h x 4h = 260km
Q9)	a) <acb 76°<br="" ==""><bac -="" 112°="" 76°="36°<br" ==""><bac 36°<br="" is="">b)<eac 76°<br="" ==""><dab -="" 180°="" 36°="" 76°="68°<br" ==""><dab 68°<="" is="" th=""></dab></dab></eac></bac></bac></acb>
Q10)	4 units = 55 ÷ 11 × 4 = 20

```
Q11)
        a)cost of a child's ticket = $58 \div 2 = $29
        b)402 \times $58 = $23316
          Extra = $23316 - $17690 = $5626
         Diff = $58 - $29 = $29
        No.of children = $5626 \div $29 = 194
Q12) a)Company : B
          company A
                                                    company B
        $0.30x90+$0.80x75+$1x56
                                                   $0.30x100+$0.80x50+$1x84
        = $143
                                                    = $154
        Difference = $154 - $143 = $11
        b)i)False
         ii)True
Q13) | 20cm \div 2 = 10cm
       Area of triangle = \frac{1}{2} x 20cm x 10cm = 100cm<sup>2</sup>
       Area of semicircle = \frac{1}{2} x 3.14 x 10cm x 10cm = 157cm<sup>2</sup>
       157cm^2 - 100cm^2 \div 2 = 28.5cm^2
       Area of shaded = 100 \text{cm}^2 - 28.5 \text{cm}^2 = 71.5 \text{cm}^2
Q14) a)Total mass of Ahmad, Brian, Caili and Devi = 38kg x 4 = 152kg
          total mass of Ahmad, Brian, Caili = 37kg x 3 = 111kg
          Devi's mass = 152kg - 111kg = 41kg
          Caili mass = 77kg - 41kg = 36kg
       b)Ahmad's mass = 152kg - 36kg - 41kg - 41kg = 34kg
Q15) 50 - 40 = 10
       4 - 1 = 3
       3 \text{ units} = p + p + 40 = 2p + 40
       1 \text{ unit} = 1p + 10
       2 \text{ units} = (1p+10) \times 2 = 2p + 20
       1 unit = 2p + 40 - 2p + 20 = 20
       P = 20 - 10 = 10
       No.of buns baked in the moring
       = 50 + 10 \times 3 = 80
       N0.of cakes left = p = 10
       a)The bakery baked 80 buns.
       b)10 cakes were left
Q16) a)volume of water in B at the end
        =\frac{3960 \text{cm}^3}{.5+3} \times 3 = 1485 \text{cm}^3
       b)Diff = 1485cm<sup>3</sup> - 660cm<sup>3</sup> = 825cm<sup>3</sup>
         increase in water level = 825cm<sup>3</sup> ÷ 30cm<sup>2</sup> = 27.5cm
```

Q17) a)LCM of
$$(12,15) = 2 \times 2 \times 3 \times 5 = 60$$

No.of packs of cupcakes = $\frac{$60}{$15}$ x 6 = 24

b)No. of packs Mrs Fauziah bought =
$$\frac{$84}{$12}$$
x 4 = 28

No. of doughunts = $28 \times 8 = 224$

224 - 20 = 204

204 - 88 = 116

116 - 20 = 96

No.of packs Mrs Leong bought = $\frac{96}{8}$ = 12

D~F



Rosyth School Preliminary Examination 2020 Mathematics Paper 1 Primary 6

Name:	Register No
Class: Pr 6	
Date: 25 August 2020	Parent's Signature:
Total Time for Booklets A and B:	1 hour

Booklet A

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 4. You are not allowed to use a calculator.
- 5. Answer all questions.

Section	Maximum Mark	Marks Obtained	
Paper 1 (Booklet A)	20		•

^{*} This booklet consists of <u>8</u> pages (including this cover page).

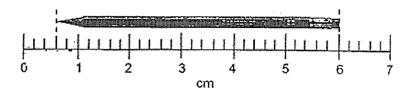
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

All diagrams in this paper are not drawn to scale unless stated otherwise.

(20 marks)

- Round off 80 282 to the nearest tenth.
 - (1) 80
 - (2) 80.2
 - (3) 80.3
 - (4) 80.28
- 2 Express 6 + 10f 4 + 2f in the simplest form.
 - (1) 12f + 2
 - (2) 12f + 10
 - (3) 14f 4
 - (4) 18f 4
- The average amount of money saved by Annie and Ben was \$36. Annie saved three times as much as Ben. How much did Ben save?
 - (1) \$9
 - (2) \$18
 - (3) \$54
 - (4) \$72

- 4 What is the length of the pencil in the figure below?
 - (1) 5.2 cm
 - (2) 5.4 cm
 - (3) 5.8 cm
 - (4) 6.0 cm

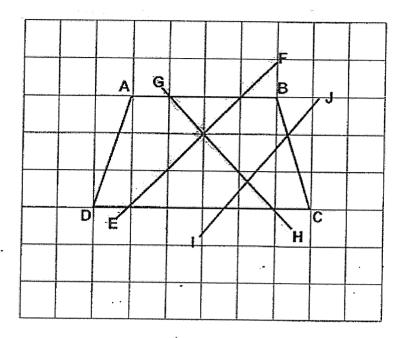


- 5 What is the possible mass of the watermelon in the figure below?
 - (1) 6.5 g
 - (2) 65 g
 - (3) 6.5 kg
 - (4) 65 kg



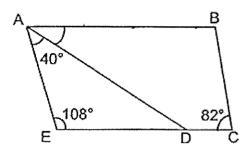
- Weng is facing East.
 He turns 225° in a clockwise direction.
 He then turns 45° in an anti-clockwise direction.
 Which direction is he facing now?
 - (1) North
 - (2) South
 - (3) East
 - (4) West

Which two lines are perpendicular to each other?

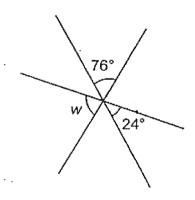


- (1) AB and CD
- (2) GH and IJ
- (3) EF and IJ
- (4) GH and EF

8 In the figure below, ABCD is a trapezium. EDC is a straight line. AB is parallel to DC. Find ∠DAB.



- (1) 22°
- (2) 32°
- (3) 42°
- (4) 68°
- 9 The figure below is made up of 3 straight lines. Find $\angle w$.



- (1) 66°
- (2) 80°
- (3) 100°
- (4) 104°

10 The table below shows the rental fees for skates.

Skates for Rent

First hour

\$10 per pair

Every additional $\frac{1}{2}$ hour

\$6 per pair

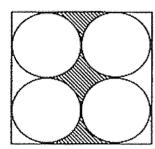


Cedelle rented a pair of skates from 10 am to 12 noon. How much did she pay?

- (1) \$16
- (2) \$20
- (3) \$22
- (4) \$32
- A number when divided by 10 gives a remainder of 7. Which of the following can be added to the number to change it to a multiple of 5?
 - (1) 5
 - (2) 2
 - (3) 3
 - (4) 4
- Mr Lim had \$100. He bought 2 crabs which cost \$30.50 each and some fishes which cost \$23.70. How much money had he left?
 - (1) \$15.30
 - (2) \$45.80
 - (3) \$84.70
 - (4) \$184.70

- 13 Mdm Rosie sold only roses on Mother's Day. She sold 200 stalks of them in the morning and $\frac{2}{5}$ of the remainder in the afternoon. After that, she had $\frac{1}{2}$ of the roses left. How many stalks of roses did she sell in the afternoon?
 - (1) 400
 - (2) 600
 - (3) 1000
 - (4) 1200

- The figure below is made up of 4 identical circles inside a square. The length of the square is 28 cm. Find the perimeter of the shaded part. (Take $\pi = \frac{22}{7}$)
 - (1) 88 cm
 - (2) 102 cm
 - (3) 116 cm
 - (4) 144 cm



A survey was conducted to find out the favourite snack of a group of 50 children. They could only pick one type of snack and each type was picked by at least one child.

The table below showed the results of the survey. Given that the most popular snack is Mamee Monster and the least popilar snack was prawn crackers, what was the greatest number od children who picked Potato chips?

Favourite snacks

Mamee Monster	Potato Chips	Prawn Crackers	Chocolates
24	?	3	

- (1) 19
- (2) 23
- (3) 27
- (4) 4



Rosyth School Preliminary Examination 2020 Mathematics Paper 1 Primary 6

Name:	Register No
Class: Pr 6	Group No.:
Date: <u>25 August 2020</u>	Parent's Signature:
Total Time for Booklets A and B	: 1 hour

Booklet B

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. You are not allowed to use a calculator.
- 4. Write your answers in the booklet.
- 5. Answer all questions.

Section	Maximum Mark	Marks Obtained	
Paper 1 (Booklet B)	25	and the state of t	

^{*} This booklet consists of <u>9</u> pages (including this cover page).

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

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All diagrams in this paper are not drawn to scale unless stated otherwise.

(5 marks)

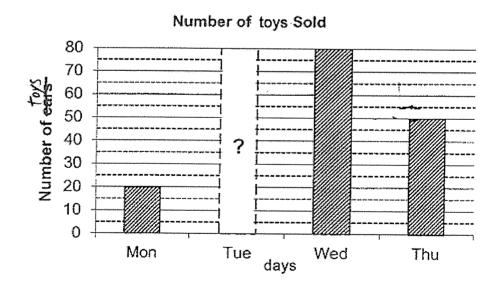
16 List all the common factors of 20 and 35.

Ans:_

17 Express 3.2 as a percentage.

Ans : ______%

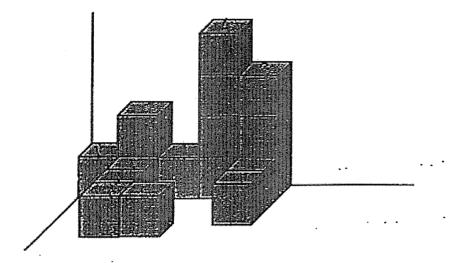
At a carnival, 215 toys were sold in 4 days. How many toys were sold on Tuesday?



Ans : _____

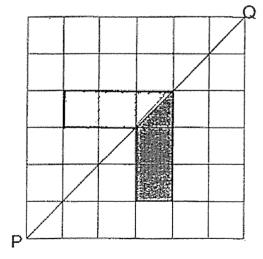
The figure below shows a solid that is made up of 1-cm cubes. Find the volume of the solid.

Do not write in this spac



Ans: cm³

20 Complete symmetric figure below with PQ as the line of symmetry.



Questions 21 to 30 carry 2 marks each. Show your workings clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

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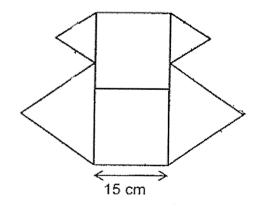
All diagrams in this paper are not drawn to scale unless stated otherwise.

(20 marks)

Find the value of $7 \div 8$. Give your answer correct to 2 decimal places.

Ans	:		

The figure below, not drawn to scale, is formed using 2 identical squares, 2 identical large equilateral triangles and 2 identical small equilateral triangles. The length of the square is 15 cm. Find the perimeter of the figure.



Ans:	 cm	

23 Nicole had some sugar.

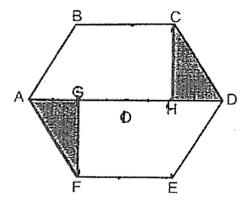
Nicole have at first?

She used $\frac{1}{5}$ kg of the sugar to make cupcakes and $\frac{1}{3}$ of the sugar to make jelly. She had 140 g of sugar left. How many grams of sugar did

Do not write in this space

Ans: a

ABCD and DEFA are identical trapeziums. AG=GO=OH=HD. What fraction of the figure is shaded? Leave your answer in the simplest form.



Ans:

25	Bridget is 12 years old now.	Her cousin is y years younger	than her.
	Find their combined age 5 ye		.5**

Do not write in this space

			1
Ans			- 1
MID.		•	- 1

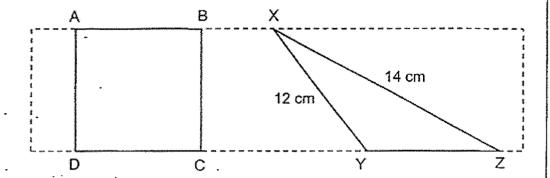
The table below shows the month of April in one year. Mr Osman plans to attend a course 38 days after 12 April. Which day will he be attending the course?

			April	A CONTRACTOR OF THE CONTRACTOR		
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Ans:		
,		

Do not write in this space

James cuts out a square and a triangle from a rectangular strip of paper as shown below. Square ABCD has an area of 81cm². Square ABCD has same the perimeter as Triangle XYZ.XY is 12 cm and XZ is 14 cm. Find the area of Triangle XYZ.



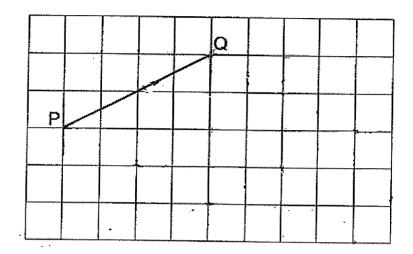
Ans:_____cm²

Do not write in this space

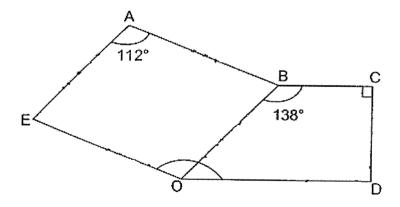
28 In the square grid, PQ is a straight line.

PQ forms one side of a rhombus PORS_

Complete the drawing of the rhombus PQRS. Label the points R and S.



The figure below is made up of a parallelogram ABOE and a trapezium BCDO. ∠EAB = 112° and ∠OBC = 138°- Find ∠EOD.



Ans : ______

At a carnival, 5 boys played darts at 2 stations from 9 a.m. to 10.30 a.m. At any time, 2 of them played while the other 3 boys watched. If each of them had the same amount of time playing darts, how many minutes did each boy play the game?

Do not write in this space





Ans	*		min	

End of paper Have you checked your work?



Rosyth School Preliminary Examination 2020 Mathematics Paper 2 Primary 6

Name:		Register No.
Class:	Pr 6	Group No:
Date:	25 August 2020	Parent's Signature:
Time:	th 30 min	

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Show your workings clearly as marks are awarded for correct working.
- 4. Write your answers in this booklet.
- 5. You are allowed to use a calculator.
- 6. Answer all questions.

Questions	Maximum Mark	Marks Obtained
Q 1 to 5	10	•
Q 6 to 17	45	

Section	Maximum Mark	Marks Obtained
Paper 1	45	_
Paper 2	55	
Total	100	

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

Do not write in this space

(10 marks)

All diagrams in this paper are not drawn to scale unless stated otherwise.

1.	Uncle Bob sells bubble tea at \$6.30 per cup of 700 ml. He only sells one
	size of bubble tea at his stall. Uncle Bob wants to make \$1000 a day.
	What is the minimum number of cups he must sell?

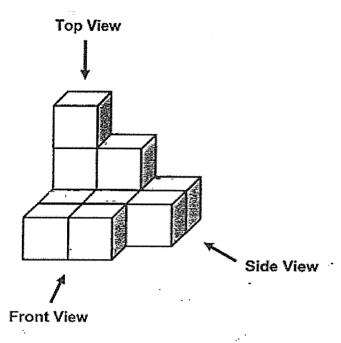
Ans		
UIIO.		

2. Miss Lee bought $\frac{8}{9}$ kg of butter. $\frac{1}{3}$ kg of butter was needed to bake a cake. She wanted to bake the greatest possible number of cakes.

Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick ($\sqrt{\ }$) to indicate your answer.

Statement	True	False	Not possible to tell
The greatest number of cakes Miss Lee could bake was 2.	(
After baking, Miss Lee had $\frac{2}{3}$ kg of butter left.			

3. The solid below is made up of 11 cubes.



(a) Draw the side view of the solid on the grid below.

Side View

- (b) Norah painted the whole solid including the base. Then she took it apart into its 11 cubes. How many of the cubes have 2 of the faces painted?

Ans : _____

Do not write in

this space

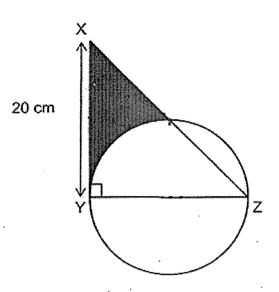
4.	The diagram below is drawn to scale. Use a protractor to find ∠a.	Do not
	а	write in this space
		·
•		
	Ans :°	
5.	There are two numbers. One is 3 times the other. They have exactly four	
	common factors. Three of the common factors are 1, 3 and 7. What are the two numbers?	
		٠.
	ł ·	

For Questions 6 to 17, show your working clearly in the space provided for each Do not question and write your answers in the spaces provided. The number of marks write in available is shown in brackets [] at the end of each question or part-question. this For questions which require units, give your answers in the units stated. space (45 marks) All diagrams in this paper are not drawn to scale unless stated otherwise. 6. A sum of money was shared among three girls, Maggie, Alice and Cecilia. Maggie received \$m. Alice received twice as much money as Maggie. Cecilia received \$55 less than Alice. (a) Express the amount of Cecilia's money in terms of m. (b) If m = 35, find the total sum of money shared by the three girls.

Ans : (a)[1]	
(b)[2]	

7 c	Mr Chan bought some pots of plant equal number of identical bags of so of a pot of plant and a bag of soil was the bags of soil than the plants. How	oil for the plants. The average \$\$12.50, Mr Chan paid \$45 le	price ss for	Do not write in this space
	-		MARKATA SI SI SI SI SI SI SI SI SI SI SI SI SI	
			Control of the Contro	
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			ARTONIO MARTINI DE LA PRESENTA DE LA PRESENTA DE LA PRESENTA DE LA PRESENTA DE LA PRESENTA DE LA PRESENTA DE L	
		Ans:	_[3]	

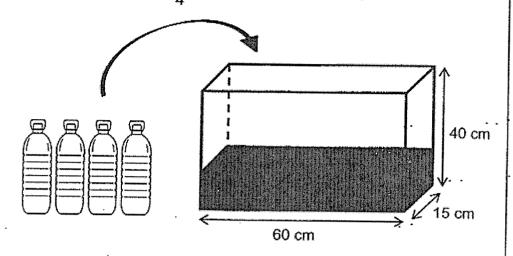
8. The figure below, not drawn to scale, is made up of a circle and a right-angled triangle XYZ. XY = YZ. XY is 20 cm. YZ is the diameter of the circle. Find the area of the shaded part. (Take $\pi = 3.14$)



Ans:	[3]		

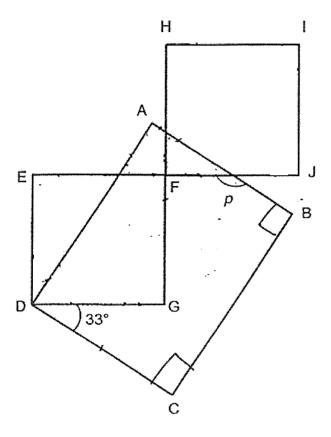
9. A rectangular tank measuring 60 cm long by 15 cm wide by 40 cm high was $\frac{1}{3}$ filled with water at first. Devi filled 4 identical bottles with water to the brim. Then she poured all of the water from the bottles into the rectangular tank and the tank became $\frac{3}{4}$ full. What was the capacity of each bottle?

Do not write in this space



Ans:______[3]

10. The figure is made up of a rectangle ABCD and 2 identical squares DEFG and HIJF. EJ and HG are straight lines. Find $\angle p$.



Ans	:	[3]	
1110	٠	(~)	

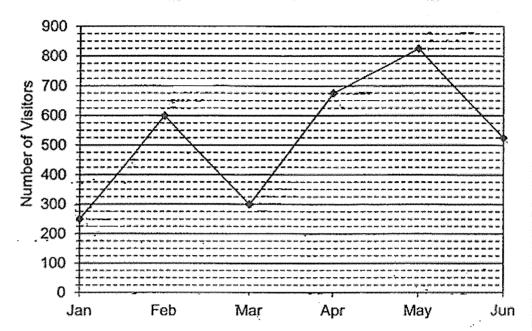
Alex and Benjamin were each given some stickers. Alex had four times 11. Do not as many stickers as Benjamin. After Alex gave away 203 stickers and write in Benjamin gave away 26 stickers, Benjamin had three times as many this stickers left as Alex. How many more stickers did Alex have than space Benjamin at first?

[4]

12. Mel has a total of 648 black and white buttons. He has 360 more black Do not buttons than white buttons. He puts all the black buttons equally into write in empty black boxes and puts all the white buttons equally into empty white this space boxes. There are thrice as many black boxes as white boxes. Each black box contains 4 more buttons than each white box. How many buttons are there in each white box?

13. The graph shows the number of visitors to the museum from January to June.





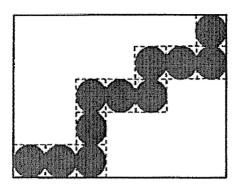
- a) In which one-month period was there the greatest change in the number of visitors to the museum?
- b) In month of June, for every adult visitor, two visitors were children. How many visitors were children in June?
- c) From January to February what was the percentage increase in the number of visitors to the meseum?

Ans : a) Between _____ and ____ [1]

b) _____ [1]

c) _____[2]

14. The figure below shows a rectangle and 11 identical shaded circles. Each shaded circle is in contact with those next to it. The rectangle has a perimeter of 384 cm.



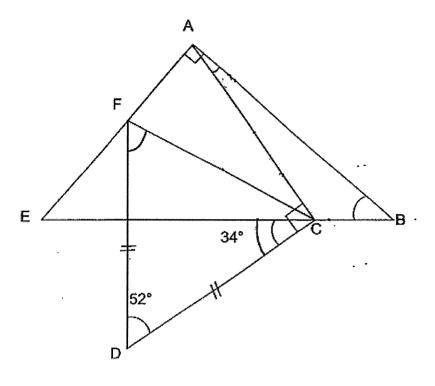
- a) Find the radius of one circle.
- b) More identical shaded circles are added. The whole rectangle is then covered with maximum number of shaded circles. Find the area of the rectangle that is not covered by the shaded circles.

(Take
$$\pi = \frac{22}{7}$$
)

Ans	•	a)	[1	1	ĺ
	•	~ 1	r.	J	l

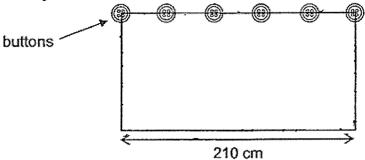
15. The figure below is made up of a right-angled triangle ABE and two isosceles triangles ACF and CDF. AC = FC and DF = DC. Find ∠ABC.

Do not write in this space



Ans:______[4

16. Yanti decorated the sides of a rectangular board with 16 buttons. The buttons were placed at an equal distance apart along all the sides of the board. The length of the board was 210 cm. The figure below shows part of her layout.



- a) What was the breadth of the rectangular board?
- b) After that, Yanti decided to use a combination of ribbons and buttons. She spent $\frac{1}{4}$ of her money on 16 buttons and 4 ribbons. The cost of each ribbon is twice the cost of each button. Yanti bought some more ribbons with $\frac{1}{2}$ of her remaining money. How many ribbons did she buy altogether in the end?

Ans	*	a)		[2]	
-----	---	----	--	-----	--

17. Mdm Yap sold some T-shirts in March. The table belows shows the number of T-shirts sold for size S and L but not size M and XL.

		and the second
	Size of T-shrt	Number of T-shirt
	S	80
	M	?
	L	400
***************************************	ΧI	2

- (a) 50% of the T-shirt were in size L. The ratio of the number of T-shirt in size M to size XL is 5: 11. How many of the T-shirts were in size M?
- (b) Mdm Yap sold all of her T-shirts in the size of S at the usual price and and all of her T-shirts in size M at a discount of 25%. She received a total of \$1620 from the sale. The amount of money she received from the sale of the T-shirt in size M was \$180 more than the sale of T-shirt in size S. What is the price difference in the cost of a T-shirt in size S and a T-shirt in size M at their usual price?

Ans:	a)	[2]	
	b)	[3]	

SCHOOL: ROSYTH PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT: MATH

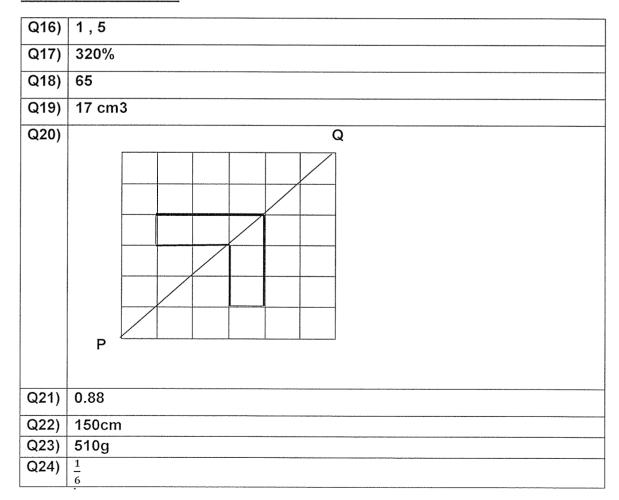
TERM: 2020 PRELIM

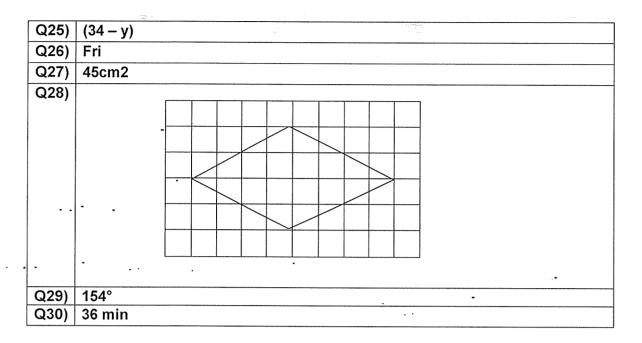
PAPER 1 BOOKLET A

Q 1	Q2	Q3	· Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	1	2	2	3	4	4	2	2	3

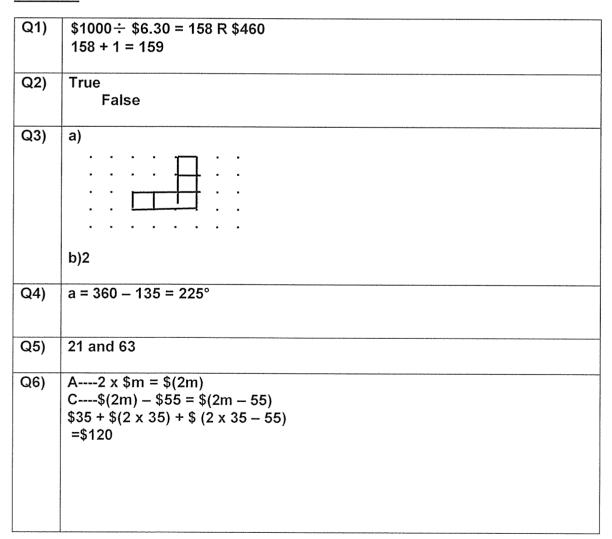
Q 11	Q12	Q13	Q14	Q15
3	1	1	3	1

PAPER 1 BOOKLET B





PAPER 2



Q7)=	
	\$25 - \$15 = \$10
	\$15 - \$10 = \$5
	$$45 \div 5 = 9$
	9 x \$15 = 135
Q8)	r20cm ÷ 2 = 10cm
	area of 1
	½ x 10 cm x 10cm = 50cm2
	½ x 20cm x 20cm = 200cm2
	200cm2 - 50cm2 - 78.5cm2
	= 71.5cm2
Q9)	$\frac{5}{12}$ x 40 x 15 x 60 = 15000
	14
	15000 ÷ 4 = 3750ml
040	ADO
Q10)	ADG = 90 - 33 = 57
	EDA = 90 - 57 = 33
	X = 180 - 90 - 33 = 570
	P = 570 + 90°
Q11)	12u - 609 = 1u - 26
(311)	11u583 ÷ 11 = 53
	4u – 1u = 3u
	3u 3 x 53 = 159
	3u 3 x 33 - 133
012)	540 ÷ 3 = 168
Q12)	
	$168 - 144 = 24$ $24 \div 4 = 6$
	144 ÷ 6 = 24
0.45	
Q13)	a)Mar and Apr
	b)350
	c)140%
044	-)0
Q14)	a)8cm
	b)1920cm2
045	420
Q15)	43°

Q16)	a)126cm	3 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	
	b)22		
Q17)	a)100		
	a)100 b)\$3		

Pg4