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



COMBINED PRELIMINARY EXAMINATION (2020) PRIMARY 6

MATHEMATICS

PAPER 1 Booklet A

Friday

21 August 2020

1 h

INSTRUCTIONS TO PUPILS

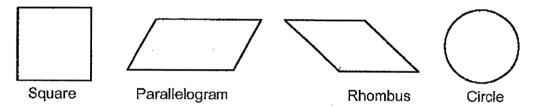
- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 5. The use of calculators is **NOT** allowed.

Name:		4300	()
Class :	6 ()		

This question paper consists of 8 printed pages. (Inclusive of cover page)

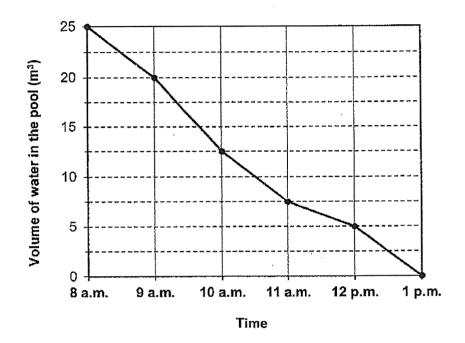
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet (OAS). (20 marks)

- 1. How many ten thousands are there in 4 710 000?
 - 1) 47
 - 2) 471
 - 3) 4710
 - 4) 47100
- 2. How many of the following figures have at least one line of symmetry?



- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 3. Express $6\frac{2}{500}$ as a decimal.
 - 1) 6.2
 - 2) 6.4
 - 3) 6.04
 - 4) 6.004

4. At 8 a.m., a swimming pool was completely filled with water. From 8 a.m. to 1 p.m., water was drained from the swimming pool. The line graph below shows the volume of water in the swimming pool from 8 a.m. to 1 p.m.



During which one-hour period was the decrease in the volume of water the greatest?

- 1) Between 8 a.m. and 9 a.m.
- 2) Between 9 a.m. and 10 a.m.
- 3) Between 10 a.m. and 11 a.m.
- 4) Between 11 a.m. and 12 p.m.

5. The table below shows the number of 'Arts Fiesta' tickets sold over a period of five days. The total number of tickets sold was 1380. What is the average number of tickets sold on Wednesday, Thursday and Friday?

Days	Tickets sold
Monday	325
Tuesday	380
Wednesday	?
Thursday	?
Friday	?

- 1) 205
- 2) 225
- 3) 675
- 4) 705
- 6. Isaac ran round a circular track 3 times for his training. The radius of the track was 56 m. How far did he run? (Take $\pi = \frac{22}{7}$)
 - 1) 168 m
 - 2) 352 m
 - 3) 528 m
 - 4) 1056 m

- 7. A tank measured 40 cm by 15 cm by 30 cm is half filled with water. Find the volume of water in the tank.
 - 1) 9 8
 - 2) 18 &
 - 3) 9000ℓ
 - 4) 18000 £
- 8. Arrange the following fractions from the smallest to the largest:

$$1\frac{1}{6}$$
, $\frac{5}{4}$, $\frac{10}{9}$

- 1) $1\frac{1}{6}$, $\frac{10}{9}$, $\frac{5}{4}$
- 2) $\frac{5}{4}$, $\frac{10}{9}$, $1\frac{1}{6}$
- 3) $\frac{5}{4}$, $1\frac{1}{6}$, $\frac{10}{9}$
- 4) $\frac{10}{9}$, $1\frac{1}{6}$, $\frac{5}{4}$

- 9. One of the angles of a trapezium is 55°. Which of the following are possible values of the remaining angles?
 - 1) 115°, 55° and 125°
 - 2) 115°, 55° and 65°
 - 3) 115°, 55° and 115°
 - 4) 115°, 65° and 125°
- 10. In the number line shown below, which value is closest to the reading at X?

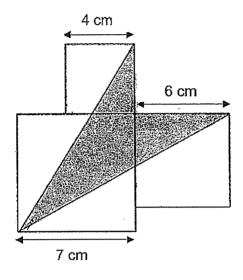


- 1) 5.190
- 2) 5.495
- 3) 5.590
- 4) 5.725
- 11. Mr Lee had some magazines. He sold 315 magazines from Monday to Friday. He sold $\frac{2}{5}$ of the remaining magazines on Saturday and Sunday. The number of magazines left was $\frac{1}{4}$ of what he had at first. How many

magazines did he have at first?

- 1) 540
- 2) 405
- 3) 90
- 4) 45

12. The figure below is made up of 3 squares. Find the shaded area.

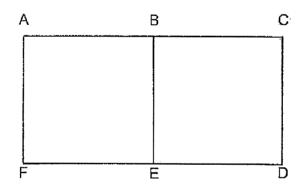


- 1) 31 cm²
- 2) 35 cm²
- 3) 36 cm²
- 4) 48 cm²

Machine A prints 16 pages more than Machine B in every minute. Machine A and Machine B print a total of 608 pages in 4 minutes. At this rate, how many pages does Machine A print in 1 minute?

- 1) 68
- 2) 74
- 3) 84
- 4) 90

- 14. A box of cookies was shared between Jesse and Linn in the ratio of 7:4. Linn then decided to share her portion of cookies with her younger brother in the ratio 5:3 while Jesse shared her portion of the cookies with her elder sister in the ratio 4:3. Among the four of them, the smallest portion of cookies was 12 pieces. How many pieces of cookies were there in the box at first?
 - 1) 33
 - 2) 44
 - 3) 66
 - 4) 88
- 15. The map below shows the locations of 6 places, A, B, C, D, E and F. ABEF and BCDE are squares. Location C is south of location E. Which of the following location is north-east of B?



- 1) A
- 2) C
- 3) D
- 4) F

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1 1	1	L I		1 1
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Anglo-Chinese School (Junior)/ Anglo-Chinese School (Primary)



COMBINED PRELIMINARY EXAMINATION (2020) PRIMARY 6

MATHEMATICS

PAPER 1 Booklet B

Friday	21 August 20)20	1 h
INSTRUCTIONS TO PUPILS 1. Do not turn over this page of the control of turn over the page of the control of the control of turn over the page of the control of the control of turn over the contro	until you are told t fully. pooklet.	to do so.	
Name :	()	
Class : 6.()			

This question paper consists of 10 printed pages. (Inclusive of 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.

(5 marks)

16. In a sports race, Ethan had to complete swimming, cycling and running. The table below shows the time taken for each sports.

Segments	Time Taken (min)
Swimming	39
Cycling	58
Running	46

What was the total time Ethan took to complete the 3 sports? Give your answer in hours and minutes.

Answer:	ħ	min
WIIDMOI.	13	1,11111

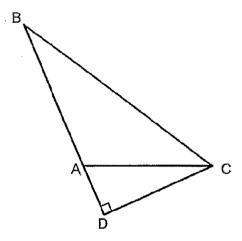
17. Arrange the following from the lightest to the heaviest.

6.35 kg 6 kg 35 g 6
$$\frac{1}{3}$$
 kg

Answer:		
	(lightest)	(heaviest)

.Combined ACS Prelim 2020

18. In the figure below, BD is 20 cm and CD is 8 cm. AD is $\frac{1}{4}$ of BD. Find the area of triangle ABC.

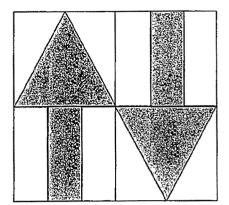


Answer: _____ cm²

19. What is the fraction exactly between $\frac{2}{7}$ and $\frac{2}{5}$?

Answer: _____

20. The figure is made up of 4 squares. Two of the squares are divided equally into 3 rectangles. What fraction of the figure is shaded?



Answer:	
MISVOI.	

Question	s 2	11 to	30 carr	y 2 marks	each	. Show yo	ur work	ing clear	ly and	write	your
answers	in	the	spaces	provided.	. For	questions	s which	require	units,	give	your
answers	in t	he u	ınits sta	ted.					(2	20 ma	rks)

21. Find the value of 83 -
$$\frac{74 - 6y}{y}$$
 - y when y = 4.

Answer:	

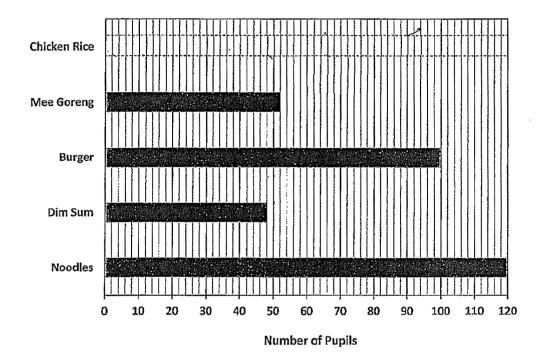
22. The table below shows the number of hours that a group of 24 students spent on building a model in a day.

Number of hours spent by each pupil	0	3	4	5
Number of pupils	2	9	8	5

What is the average number of hours each student spent on building the model each day?

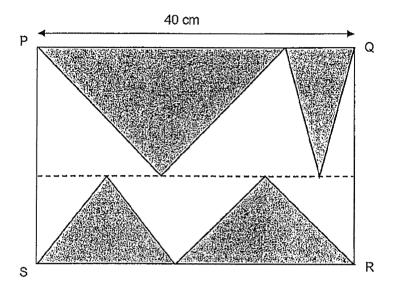
	,	Answer:	h
Combined ACS Prelim 2020	5	Sub-Total :	

23. The bar graph shows the type of food consumed by a group of pupils in a school canteen. The bar that shows the number of pupils who consumed chicken rice has not been drawn.



20% of the pupils in the canteen consumed chicken rice. Draw the bar that shows the number of pupils who consumed chicken rice in the graph above.

24. The figure below shows 4 shaded triangles inside rectangle PQRS. The dotted line is parallel to PQ and SR. The total shaded area is 500 cm². Find the length of QR.

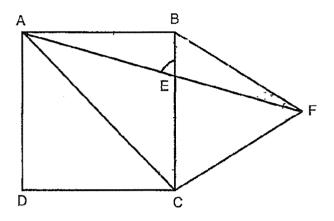


_	
Answer:	cm
ALISWEL.	13111

25. Tina packed some gift bags for charity drive. She packed 7 bottles of hand sanitizers, 4 masks and 2 granola bars into every gift bags. She used 117 more hand sanitizers than masks for all her gift bags. How many granola bars did Tina pack altogether?

		Answer:		***************************************
Combined ACS Prelim 2020	7		Sub-Total :	

26. In the figure below, not drawn to scale, ABCD is a square and BCF is an equilateral triangle. AEF is a straight line. Find ∠AEB∜,

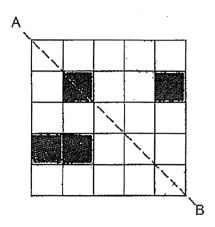


Answer: _____o

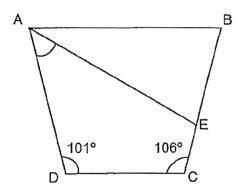
27. There were 150 members in a club in March. This was an increase of 20% when compared to February. In April, only 115 members remained in the club. What is the percentage decrease in the number of members in April compared to February?

Answer: ______%

28. In the figure below, shade the minimum additional number of squares so that AB is the line of symmetry for the figure.



29. ABCD is a trapezium. \angle BCD = 106° and \angle ADC = 101°. AB = AE. Find \angle DAE.



Answer:	c c
Allowel.	

30. Kelly has \$38. What is the	e greatest nu	mber of muffins she can buy?
First 3 muffins	\$3.20 ea	ch
Additional muffi	in \$3 each	
		Answer:
1	End of Pape	r 1
Combined ACS Prelim 2020	10	Sub-Total :

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



COMBINED PRELIMINARY EXAMINATION (2020) PRIMARY 6

MATHEMATICS

PAPER 1 Booklet B

Friday	21 August 2020	1 h
1. Do not turn over this 2. Follow all instruction 3. Answer all question 4. Write your answers 5. The use of calculate	s page until you are told to do so. ns carefully. is. in this booklet.	
Name :	()	
Class : 6.()		

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

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(5 marks)

16. In a sports race, Ethan had to complete swimming, cycling and running. The table below shows the time taken for each sports.

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Swimming	39
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Running	46

What was the total time Ethan took to complete the 3 sports? Give your answer in hours and minutes.

Anewer	ħ	min
Answer:	13	1111111

17. Arrange the following from the lightest to the heaviest.

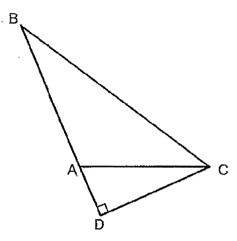
6.35 kg 6 kg 35 g 6
$$\frac{1}{3}$$
 kg

Answer:		
	(lightest)	(heaviest)

.Combined ACS Prelim 2020

^	
	-

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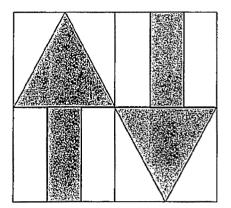


Answer: _____ cm²

19. What is the fraction exactly between $\frac{2}{7}$ and $\frac{2}{5}$?

Answer: _____

20. The figure is made up of 4 squares. Two of the squares are divided equally into 3 rectangles. What fraction of the figure is shaded?



Anewar		

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. Find the value of 83 - $\frac{74 - 6y}{y}$ - y when y = 4.

Answer:		
,	 	***************************************

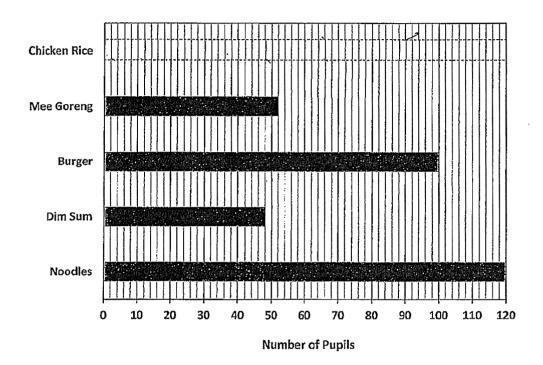
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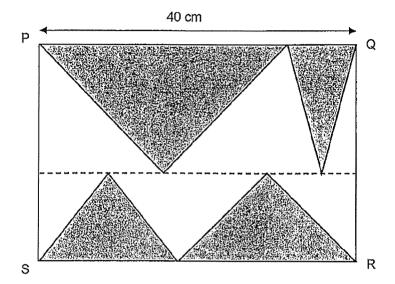
	Answer:	h
5	Sub-1	Total :

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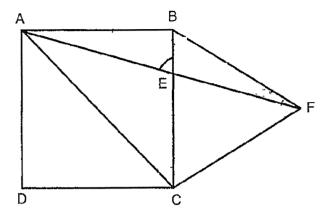


Answer:	cm

25. Tina packed some gift bags for charity drive. She packed 7 bottles of hand sanitizers, 4 masks and 2 granola bars into every gift bags. She used 117 more hand sanitizers than masks for all her gift bags. How many granola bars did Tina pack altogether?

		Answer:		***************************************
Combined ACS Prelim 2020	7		Sub-Total :	

26. In the figure below, not drawn to scale, ABCD is a square and BCF is an equilateral triangle. AEF is a straight line. Find ∠AEB∜,

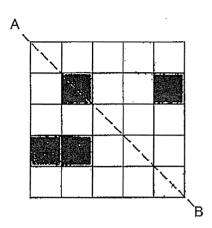


Answer: _____o

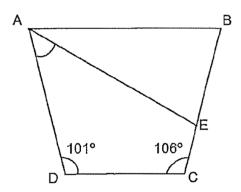
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Answer: ______%

28. In the figure below, shade the minimum additional number of squares so that AB is the line of symmetry for the figure.



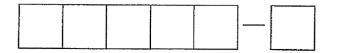
29. ABCD is a trapezium. \angle BCD = 106° and \angle ADC = 101°. AB = AE. Find \angle DAE.



A mar	•
Answer:	 •

Sub-Total:

30. Kelly has	\$38. What is the g	reatest nu	mber of muffin	s she can buy	??
	First 3 muffins	\$3.20 ea	ch		
	Additional muffin				
			Answer:		
	En	d of Pape	r 1		
Combined ACS	Prelim 2020	10		Sub-Total :	



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



COMBINED PRELIMINARY EXAMINATION (2020) PRIMARY 6

MATHEMATICS

PAPER 2

Friday

21 August 2020

1 h 30 min

Booklet / Possible Marks

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.

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

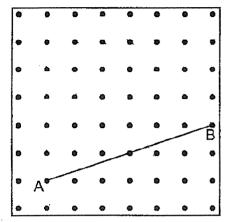
This question paper consists of 15 printed pages. (Inclusive of cover page)

ansv	vers to the units stated.	(10 marks	3)
1.	For every box of surgical masks he sells, M \$8 is given to him for every 10 boxes of surgical masks must Mr Lee sell to	gical masks he sells. How m	
		Answer:	
2.	A rectangular swimming pool 20 m wide, 60 800 m ³ of water. How much more water had level is 30 cm from the top? Give your answer	s to be added so that the w	

Sub-Total :

3.	Mr Tan who is a member of the d	e gave a storewide discount of 25%. epartmental store was entitled to an attending and a store was the total discount.	
		Answer:%	
4.	measured and recorded the mass of		
		Answer:	
Coml	bined ACS Prelim 2020 3	Sub-Total :	

5. In the grid below, by joining dots, draw 4 more straight lines to create two isosceles triangle ABC and ABD. Label all points.



 \mathcal{D}_{i}

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. April went to the supermarket to buy some toilet rolls for the family. Toilet rolls were sold at the prices shown below.

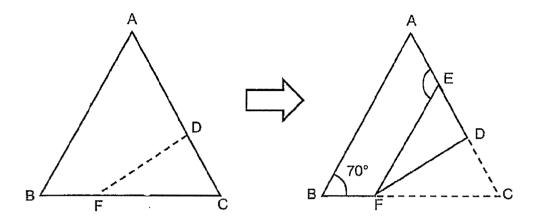
Big Pack	Small Pack
\$ (3n - 2)	\$ (n + 3)

She bought 1 big pack and 2 small packs. She paid the cashier \$50 and received \$21 change. What is the value of n?

Answer:		[3]
		p
	Sub-Total :	

	how many days did			0m, 0 q					
					Ansı	wer:			[3
8.	The table below shows the time Wilson took for $4x$ 10m shuttle run during his training sessions.								
	Attempt	1st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th
	Time taken (in seconds)	13.1	12.5	11	11.8	12.2	12	11.4	?
		ove his	averag	e time					
	(in seconds) If he wants to impre	ove his	averag	e time					
	(in seconds) If he wants to impre	ove his	averag	e time					
	(in seconds) If he wants to impre	ove his	averag	e time					
	(in seconds) If he wants to impre	ove his	averag	e time					
	(in seconds) If he wants to impre	ove his	averag	e time					
	(in seconds) If he wants to impre	ove his	averag	e time					
	(in seconds) If he wants to impre	ove his	averag	e time					

9. The figure on the left, not drawn to scale, is a triangular piece of paper ABC. It is folded along the dotted line FD to obtain the figure on the right such that AB is parallel to EF. AEDC is a straight line. ∠ABF = 70°. Find ∠AEF.



Answer	:	[3]

10. The table below shows the charges for water usage.

Volume of water	Charges
First 40 m³	\$1.21 per m³
Every additional cubic metre	\$1.52 per m³

- a) The Lee family used 32 m³ of water in June. How much did the Lee family pay for the water used?
- b) The Ali family used 58 m³ of water in June. How much more did the Ali family pay than the Lee family for the water used in June?

Answer: (a) _	***	[1]
(b) _	- week	[2]
	Cub Total	

11. Admission tickets for a school musical performance were sold to adults and children at different prices as shown in the table below.

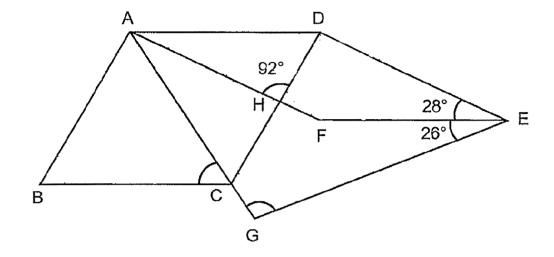
	Price per ticket
Adult	\$30
Child	\$12

- (a) Mrs Goh spent an equal amount of money on the adult and child tickets. What fraction of the tickets she bought were adult tickets?
- (b) The school collected a total of \$11760 from selling tickets for the musical performance. The number of adult tickets sold was $\frac{3}{10}$ the number of child tickets sold. How many child tickets were sold?

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

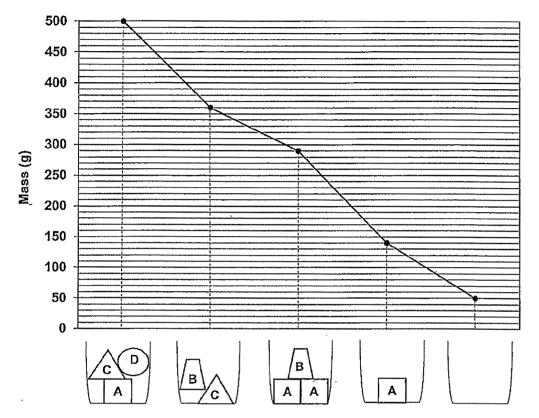
Sub-Total:

- 12. In the figure below, not drawn to scale, ABCD and ADEF are rhombuses. ACG is a straight line. ∠AHD = 92°. ∠DEF = 28°. ∠FEG = 26°.
 - (a) Find ∠ACB.
 - (b) Find ∠AGE.



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

13. The line graph below shows the mass of a container when empty and when different combinations of objects, A, B, C and D are placed in the container.



- a) What is the mass of Object B?
- b) What is the total mass of Objects A, B and D?

Answer: (a)_____[2]

(b)____[2]

14. Sofie had some cupcakes. She had 72 more chocolate cupcakes than red velvet cupcakes. She had 36 fewer blueberry cupcakes than red velvet cupcakes. After selling $\frac{1}{6}$ of the chocolate cupcakes, $\frac{2}{3}$ of the red velvet cupcakes and $\frac{7}{9}$ of the blueberry cupcakes, Sofie had 427 cupcakes left altogether. How many chocolate cupcakes did Sofie sell?

Answer:	 [4	4]
	 1.	. 4

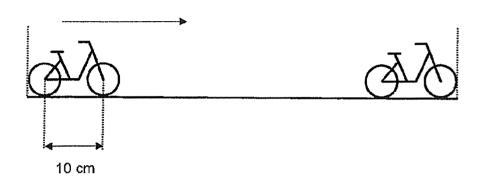
Sub-Total:

- 15. Mrs Tan bought some forks and spoons in the ratio of 4:3. Each spoon cost 50 cents more than each fork. She spent a total of \$156 on the forks and spoons. The amount she spent on the forks was \$12 more than the amount she spent on the spoons.
 - a) How much did she spend on the spoons?
 - b) How many forks and spoons did she buy altogether?

Answer:	(a)	 [1]	
	(b)	[3]	

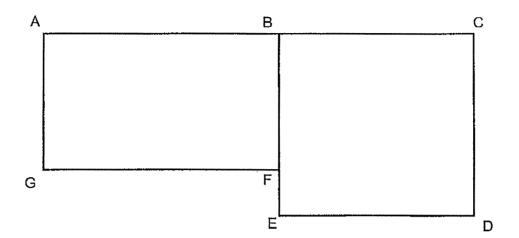
Sub-Total:

16. Jeff had a toy bicycle fixed on a straight track. He pushed the bicycle from one end of the track to the other end of the track where it stopped. The radius of the wheels is 3.5 cm and the distance between the 2 centers of the wheels is 10 cm. The length of the track is 259 cm. How many revolutions did each wheel make? (Take $\pi = \frac{22}{7}$)



Answer: _____[4]

17. The figure below is made up of rectangle ABFG and square BCDE. AC = 52 cm and EF = 8 cm. The perimeters of rectangle ABFG and square BCDE are the same. Find the area of the figure.



Answer:	[5]

End of Paper 2

SCHOOL: ACS PRIMARY SCHOOL LEVEL: PRIMARY 6 SUBJECT: MATH TERM: 2020 PRELIM

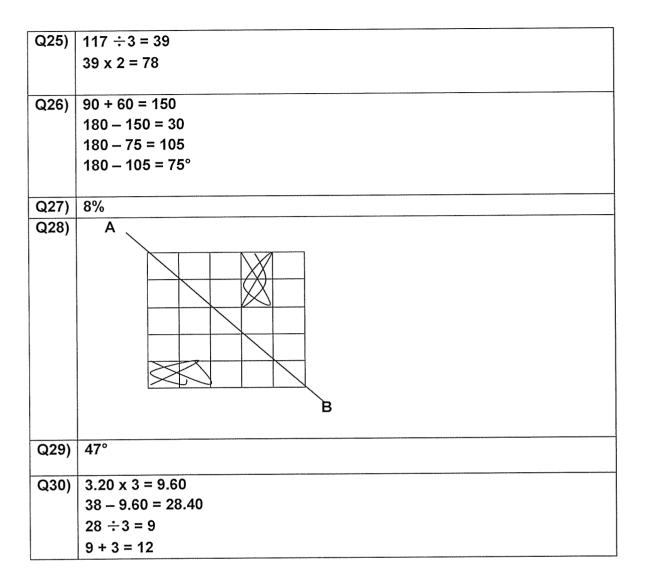
PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
1	2	3	4	1

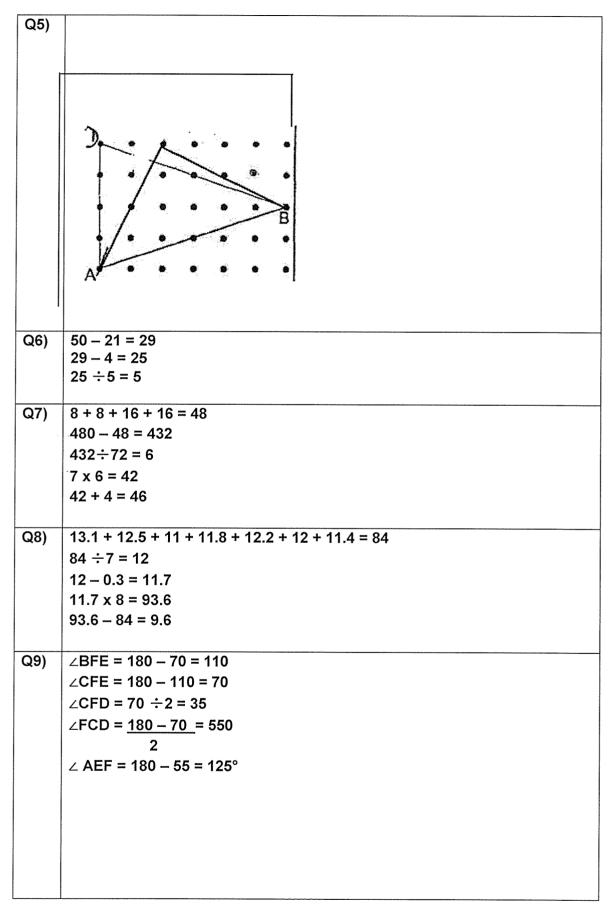
PAPER 1 BOOKLET B

Q16)	2h 23 min
Q17)	6kg 35g, $6\frac{3}{5}$, 6.35kg
Q18)	20 x 8 = 160
	$160 \times \frac{1}{2} = 80$
	5 x 8 = 40
	$40 \times \frac{1}{2} = 20$
	80 - 20 = 60
Q19)	<u>12</u> 35
Q20)	<u>5</u> 12
O24)	66.5
Q21)	
Q22)	3.5h
Q23)	200 + 120 = 320
QLO)	320 ÷ 60 = 4
	4 + 20 = 80
Q24)	500 x 2 = 1000
	1000 ÷ 40 = 25



PAPER 2

Q1)	12 x 10 = 120 120 + 8 = 128
	$3200 \div 128 = 25$
	25 x 10 = 250
Q2)	364m
Q3)	$75 \div 100 = 0.75$
	$0.75 \times 8 = 6$
	25 + 6 = 31%
Q4)	95 – 59 =36
	66.8 - 64.8 = 2
	$36 \div 2 = 18$



Q10)	a)32 x 1.21 = \$38.72
	b)1.21 x 40 = 48.4
	58 – 40 = 18
	18 x 1.52 = 27.36
	48.4 + 27.3675.76
	75.76 – 38-72 = \$37.04
Q11)	a)1A = 30 x 2
	1C = 12 x 5
	2A = 60
	5C = 60
	2 + 5 = 7
	$=\frac{2}{7}$
	7
	b)3 x 30 = 90
	10 x 12 = 120
	120 + 90 = 210
	11760 ÷210 = 56
	56 x 10 = 560
Q12)	a)60°
	b)94°
Q13)	a)60g
	b)260g
Q14)	57
Q15)	a)\$72
	b)42
040)	
Q16)	11
Q17)	904cm2
Q11)	3040112



CATHOLIC HIGH SCHOOL PRELIMINARY EXAMINATION (2020)

PRIMARY SIX MATHEMATICS PAPER 1

(BOOKLET A)

Name	:)
Class	: Primary 6	
Date	: 25 August 2020	
Total time	for Booklet A and B : 1 hour	
15 questio	ons	
20 marks		
Parent's si	ignature :	

INSTRUCTIONS TO CANDIDATES

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.

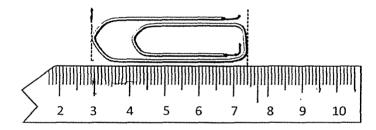
The use of calculators is **NOT** allowed.

This booklet consists of 14 printed pages excluding the 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 are not drawn to scale. (20 marks)

- 1. In 54.32, what does the digit 3 stand for?
 - (1) 3 ones
 - (2) 3 tens
 - (3) 3 tenths
 - (4) 3 hundredths
- 2. What is the length of the paper clip?

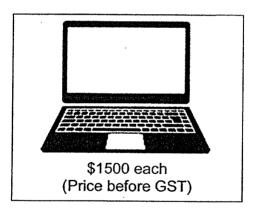


- (1) 4.4 cm
- (2) 4.5 cm
- (3) 5.5 cm
- (4) 7.4 cm
- 3. Which of the following is the likely mass of a handheld mobile phone?



- (1) 20 g
- (2) 2 g
- (3) 200 g
- (4) 2000 g

- 4. Suresh paid \$15 for 30 cookies. How much did each cookie cost?
 - (1) 5¢
 - (2) 2¢
 - (3) 20 ¢
 - (4) 50¢
- 5. Mr Ong arranges 18 blue chairs and 24 green chairs in rows. Each row has an equal number of chairs of the same colour. What is the greatest number of chairs that Mr Ong can arrange in each row?
 - (1) 6
 - (2) 7
 - (3) 3
 - (4) 14
- 6. What is the price of a laptop after adding 7% GST?



- (1) \$1395
- (2) \$1493
- (3) \$1507
- (4) \$1605

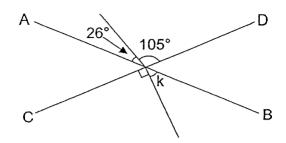
7. A group of pupils ran in a race. The table shows the number of pupils with the following times clocked in the race.

Time clocked (s)	150	151	153	155	157	158	160
Number of pupils	2	3	2	7	3	2	2

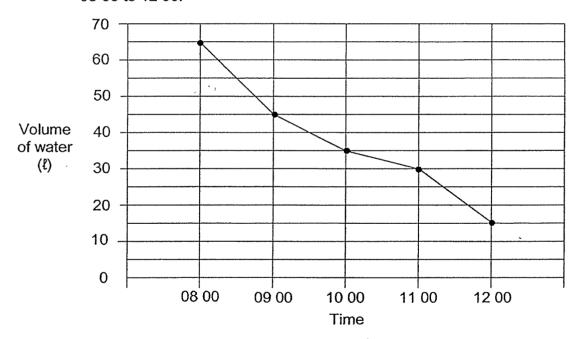
Prizes were given to the top 7 pupils. Bryan won a prize. What was the slowest time he could have clocked?

- (1) 150 s
- (2) 153 s
- (3) 155 s
- (4) 157 s
- 8. $\frac{3}{10}$ of the seats in an aeroplane are business class seats while the rest are economy class seats. $\frac{3}{5}$ of the economy class seats are occupied. What fraction of all the seats in the aeroplane are unoccupied economy class seats?
 - (1) $\frac{2}{5} \times \frac{7}{10}$
 - (2) $\frac{2}{5} \times \frac{3}{10}$
 - (3) $\frac{3}{5} \times \frac{3}{10}$
 - $(4) \quad \frac{3}{5} \times \frac{7}{10}$

9. In the figure, AB and CD are straight lines. Find $\angle k$.



- (1) 15°
- (2) 26°
- (3) 41°
- (4) 49°
- 10. A tank was filled with 65 ℓ of water at 08 00. Water flowed out of the tank from 08 00 to 12 00. The line graph shows the volume of water in the tank from 08 00 to 12 00.



During which one-hour period was the decrease in volume of water the greatest?

- (1) Between 08 00 and 09 00
- (2) Between 09 00 and 10 00
- (3) Between 10 00 and 11 00
- (4) Between 11 00 and 12 00

11. Arrange these distances from the shortest to the longest.

4.23 km $4\frac{1}{5}$ km 4 km 25 m

Shortest

Longest

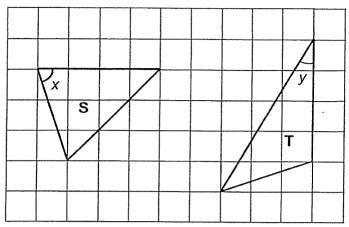
- (1) 4.23 km
- $4\frac{1}{5}$ km
- 4 km 25 m

- (2) 4 km 25 m
- $4\frac{1}{5}$ km
- 4.23 km

- (3) $4\frac{1}{5}$ km
- 4 km 25 m
- 4.23 km

- (4) $4\frac{1}{5}$ km
- 4.23 km
- 4 km 25 m
- Lin, Mat and Ned went for a run of different distances L, M and N respectively. During the run, they covered an equal distance before they stopped for a water break. At that time, Lin had completed $\frac{1}{2}$ of distance L, Mat had completed $\frac{2}{3}$ of distance M and Ned had completed $\frac{3}{5}$ of distance N. What is the ratio of the distance L to distance M to distance N?
 - (1) 1:2:3
 - (2) 2:3:5
 - (3) 12:9:10
 - (4) 15 : 20 : 18

13. Two figures S and T are shown in the square grid below.

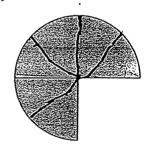


Which of the following statement(s) is/are true?

A.
$$\angle x + \angle y = 90^{\circ}$$

- B. Figure S has the same area as Figure T.
- C. Figure S has the same perimeter as Figure T.
- (1) B only
- (2) Conly
- (3) A and B only
- (4) A and C only

14. The figure is made up of a semicircle and a quarter circle of the same radius 4 cm. What is the perimeter of the shaded figure? Give your answer in terms of π .



- (1) 6π cm
- (2) $12\pi \text{ cm}$
- (3) $(6\pi + 8)$ cm
- (4) $(6\pi + 12)$ cm

- 15. Mdm Loke made $\frac{5}{6}$ ℓ of drink. She poured the drink into as many cups of $\frac{1}{3}$ ℓ as possible and had some drink left. What was the volume of the drink left?
 - $(1) \quad \frac{5}{12} \ \ell$
 - $(2) \qquad \frac{1}{2} \; \ell$
 - (3) $\frac{1}{3} \ell$
 - $(4) \qquad \frac{1}{6} \ \ell$

END OF BOOKLET A





CATHOLIC HIGH SCHOOL PRELIMINARY EXAMINATION (2020) PRIMARY SIX MATHEMATICS PAPER 1 (BOOKLET B)

Name	•	_()	
Class	: Primary 6	**	•
Date	: 25 August 2020	BOOKLET A	
Total time	for Booklet A and B: 1 hour	DOGREE! X	20
15 questio	ons	BOOKLET B	25
25 marks			
Parent's signature :		Total Marks	45

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 14 printed pages excluding the cover page.

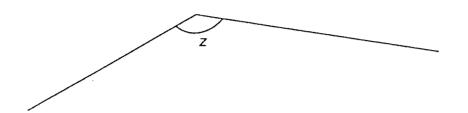


Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale.

(5 marks)

Do not write in this space

16. Measure and write down the size of $\angle z$ in the figure.



Ans: _____

17. Express 0.7% as a fraction.

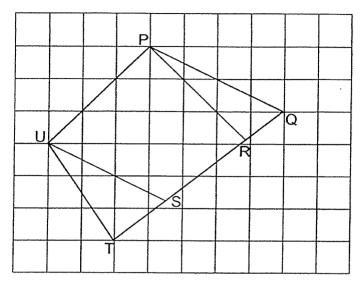
Ans: _____

18. Find the value of $\frac{10k}{4} - 2k + 3$ when k = 10.

Ans:

Refer to the figure below to answer questions 19 and 20.

Do not write in this space



19. Name the two lines that are parallel to each other.

Ans: _____ and ____

20. Name the two lines that are perpendicular to each other.

Ans: _____ and ____

Total marks for questions 16 to 20

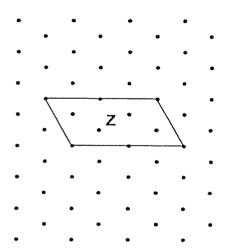


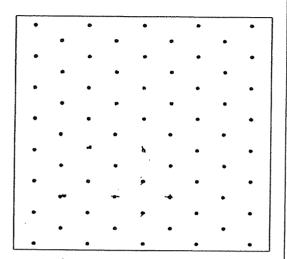
Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale.

Do not write in this space

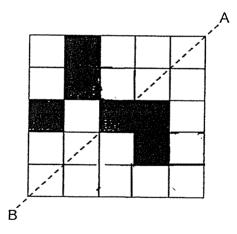
(20 marks)

21. Draw an equilateral triangle with the same area and perimeter as Figure Z in the box provided.





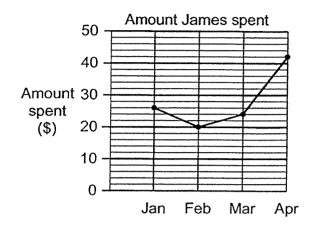
22. There are 6 shaded squares in the figure. Shade 3 more squares to form a symmetric figure with AB as the line of symmetry.



23. James received a fixed amount of allowance from his parents each month. Every month, James spent some of his allowance and saved the rest of the allowance in his savings box.

Do not write in this space

The graph shows the amount of money he spent each month.



- a) In which month did he save the most of his allowance in his savings box?
- b) In April, $\frac{3}{4}$ of the amount James spent was on food. How much did he spend on food?

Ans: a) _____

b) \$

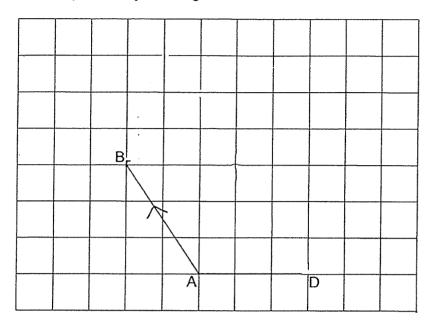
24. In 1 minute, Machine A can pack 3 boxes of biscuits while Machine B can pack 4 boxes of biscuits. Both machines started packing at 12.50 p.m. At what time will both machines pack 105 boxes of biscuits in total? Leave your answer in 24-hour clock.

Ans:

25.	Samantha wanted to fill 24 similar bottles completely with the drink she made but found that she needed an additional 3.1 of the drink. Instead, she filled 18 similar bottles and had 5.3 of the drink left. What was the capacity of one such bottle?	Do not write in this space
	Ans: {	
26.	The table shows the charges for fishing rod rental at a fishing pond.	
	Ans:h	

27. In the square grid below, AB and AD are two sides of a trapezium ABCD. AB is parallel to CD and the length of CD is twice the length of AB. Complete the trapezium by drawing the other two sides.

Do not write in this space

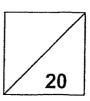


28. Luke needed some pieces of tape, each of length 8 cm, to seal some boxes. He bought 3 rolls of tape measuring 100 cm each. What was the greatest number of 8-cm tapes that Luke could cut from the 3 rolls of tape?

Ans: _____

29.	John had \$60 more than Kurt at first. Kurt gave \$12 to John. John then had 3 times as much money as Kurt. How much money did Kurt have in the end?	Do not write in this space
	Ans: \$	
30.	Kevin cuts a square paper along the dotted lines as shown in Figure 1 to get 3 identical rectangular pieces of paper. Rectangle ABCD in Figure 2 is one such rectangular paper with a perimeter of 56 cm. What is the length of one side of the square paper in Figure 1? A B	
	Figure 1 Figure 2	

Total marks for questions 21 to 30 END OF BOOKLET B END OF PAPER 1







CATHOLIC HIGH SCHOOL PRELIMINARY EXAMINATION (2020) PRIMARY SIX MATHEMATICS PAPER 2

/
20
25
55
100

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.

This booklet consists of 15 printed pages excluding the cover page.

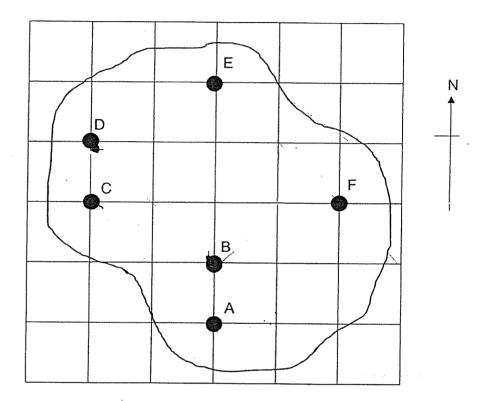


Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale.

(10 marks)

Do not write in this space

1. The square grid shows the position of points A, B, C, D, E and F.



- a) In which direction is point A from point C?
- b) Jamie stood at one of the points facing point B. After she turned 45° anti-clockwise, she faced point F. Which point was Jamie at before she turned?

Ans: a	
n) b) Point	

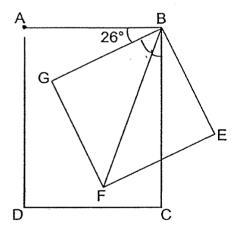
2. Penny had 16 twenty-cent coins and 20 fifty-cent coins. Richard had as many coins as Penny but had \$2.10 less. How many twenty-cent coins did Richard have?

Do not write in this space

Ans:

3. In the figure, ABCD is a rectangle. BEFG is a square and \angle ABG = 26°. Find \angle FBC.

٠.

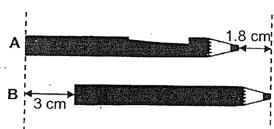


2

Ans: _____°

4. The length of pencil B is $\frac{9}{10}$ the length of pencil A. Find the length of pencil A.

Do not write in this space



Ans: _____cm

5. For a recycling project, Edmund collected 20 bottles and Fred collected 7k + 8 bottles. They collected 154 bottles altogether. What is the value of *k*?

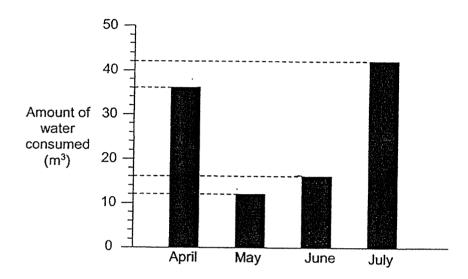
Ans: _____

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)

Do not write in this space

6. The bar graph shows the amount of water consumed by a family from April to July.

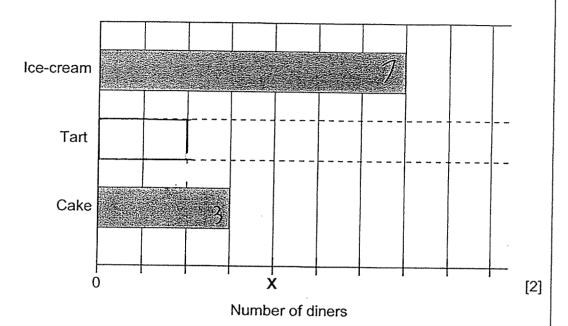


- a) How many times was the amount of water consumed in April as compared to May?
- b) What was the percentage increase in the amount of water consumed by the family in July compared to June?

Ans: a)	[1]	
b)	[2]	

7. Ice-cream, tart and cake were available as dessert at a dinner. Each diner was asked to choose one dessert. The bar graph represents the diners' choices. The number of diners is not shown on the scale and the bar that shows the number of diners who chose tart has not been drawn.

Do not write in this space



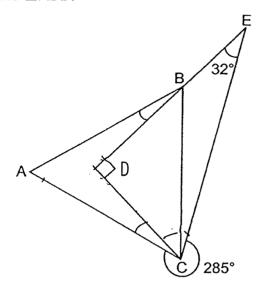
- a) What was the ratio of the number of diners who chose cake to the number of diners who chose ice-cream?
- b) 'X' was the average number of diners who chose a dessert at the dinner. Draw the bar to represent the number of diners who chose tart in the graph.

_[1]

8. In the figure below, ABC is an equilateral triangle and CDE is a right-angled triangle. Point B of the equilateral triangle lies on the side DE of the right-angled triangle. ∠DEC = 32° and ∠ECA = 285°.

Do not write in this space

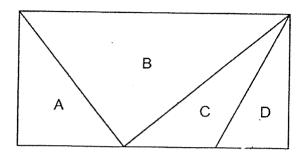
Find ∠ABD.



Ans:	[3]		

9. A rectangle is made up of four triangles A, B, C and D. The area of A to the area of the rectangle is 1:5 while the area of D to the area of the rectangle is 1:7.

Do not write in this space



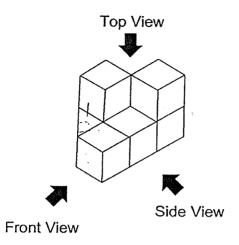
The area of B is 140 cm². What is the area of C?

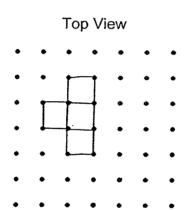
\ns:		[3]
" IO		10

10. The solid below is made up of 6 identical cubes.

Do not write in this space

a) Draw the top view of the solid on the grid below.





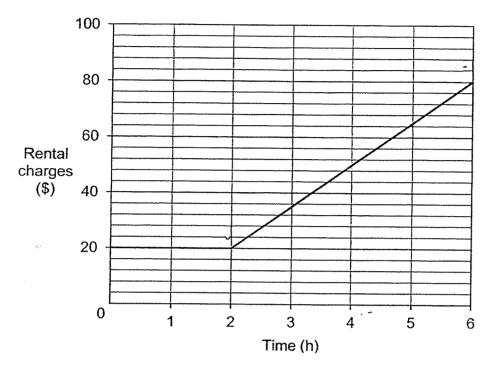
[1]

b) Linus painted the whole solid including the base. The total area painted is 416 cm². What is the length of one edge of each cube?

Ans: b) [2]

11. The graph shows the rental charges for a recreation room for the first 6 hours.

Do not write in this space

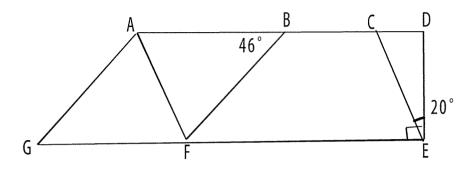


- a) How much is the rental charge for the recreation room for the first hour?
- b) How much is the rental charge for every hour after the first 2 hours of use?
- c) The rate for rental charge remains the same after the 6th hour. How much is the rental charge for 7 hours?

Ans: a) .	[1]	l
			ı

12. In the figure below, ABF and AFG are isosceles triangles with BA = BF and GA = GF respectively. AF is parallel to CE. ∠DEF is a right angle. ABC is a straight line.

Do not write in this space



a) Find ∠BCE.

Ans:	a`)	[2	l
, u	ч,			ı

b) The figure above is not drawn to scale. Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) to indicate your answer.

Statement	Trues	False -	Not possible to tell
ABFG is a rhombus		***	s. ,
ACEF is a parallelogram			

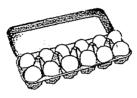
[2]

13. Eggs were only sold in trays of 30 eggs at a shop.

Do not write in this space



Mr Lee bought some such trays of eggs and re-packed them into carton boxes of 12 eggs as shown below. He needed 6 more eggs to have exact carton boxes of 12 eggs and 26 more carton boxes than trays.



How many eggs did Mr Lee buy from the shop?

	Ì	·
Ans:	[4]	

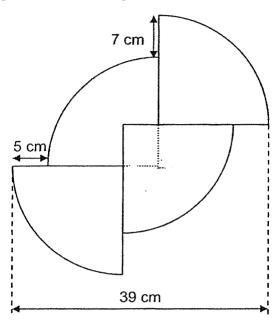
14	į	Mr Ang paid \$315 for 21 chairs. Mr Bay paid the same amount but got 4 more chairs than Mr Ang because he used a membership coupon that gave him a discount for every 4 chairs purchased.	Do not write in this space
	;	a) How much would Mr Bay had paid for the chairs without the use of the membership coupon?	
	į	b) With the use of the membership coupon, how much was the discount for every 4 chairs purchased?	
			, .
		•	
	·		
			,

[2]

Ans: a) __

15. The figure is made of 4 identical quarter circles with 2 quarter circles overlapping to form a rectangle.

Do not write in this space



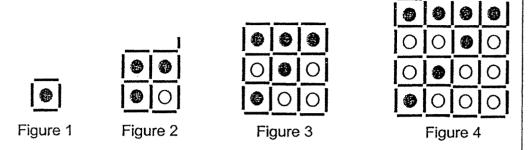
- a) What is the radius of each quarter circle?
- b) Find the area of the figure. Take $\pi = 3.14$

Arris: a) _____[1]

b) _____[3

16. Mabel used white dots, grey dots and sticks to form figures that follow a pattern. The first four figures of the pattern are shown below.

Do not write in this space



The table below shows the number of white dots, black dots and sticks used for each figure.

Figure Number	1	2	3	4	.5	
Number of white dots	0	1	4	9		
Number of grey dots	1	3	5	7		[1]
Number of sticks	4	12	24	40	60	

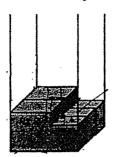
- a) Fill in the table for Figure 5.
- b) How many white dots are there in Figure 50?
- c) What is the total number of sticks in Figure 50?

b)	[2]	1
c)	[2]	

17. Axel and Brady had some identical large cubes and some identical small cubes. Each of them had a rectangular box of the same base but different height. They packed their cubes into their own box with cubes of the same size stacked on top of each other.

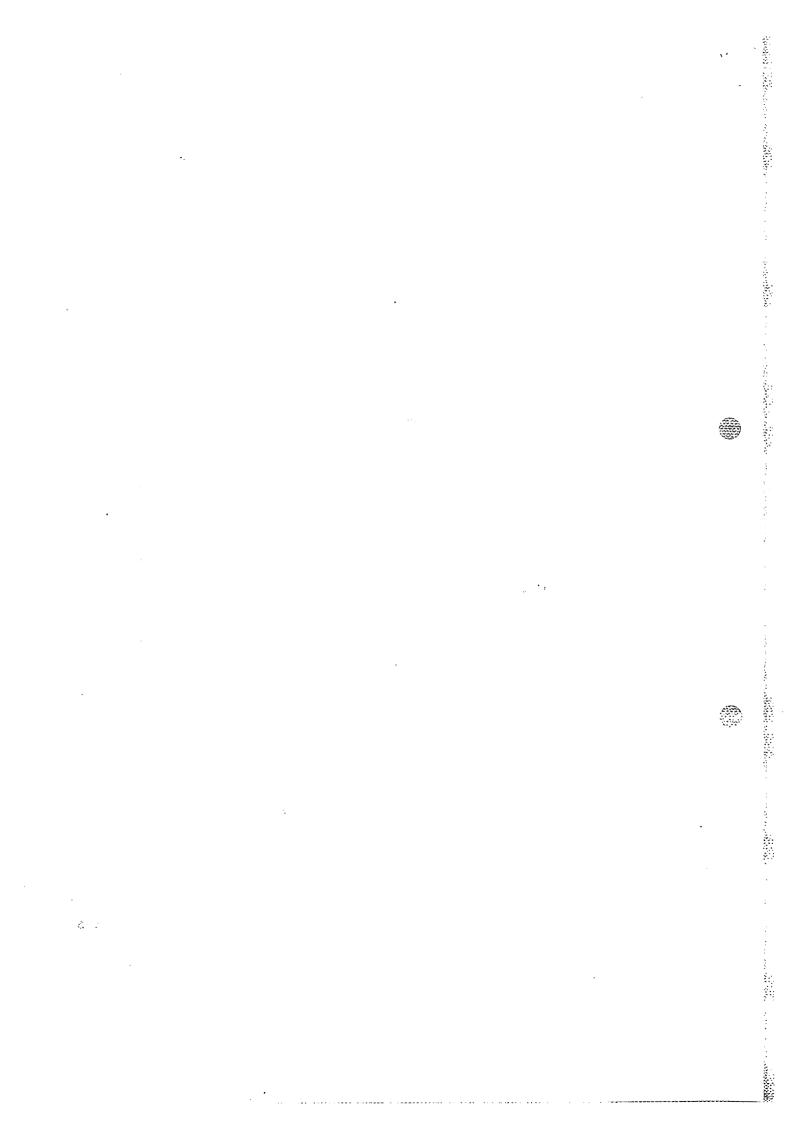
Do not write in this space

The figure below shows the first layer of cubes packed in each box.



- a) Axel's box was packed tightly to the brim without any gaps. There were 50 more small cubes than large cubes. How many cubes were packed into the box altogether?
- b) In Brady's box, the space occupied by all the large cubes and that of the small cubes was the same. What fraction of the cubes was the small cubes?

Ans: a) [3]	
b) [2]	,



SCHOOL: CATHOLIC HIGH PRIMARY SCHOOL

LEVEL

PRIMARY 6

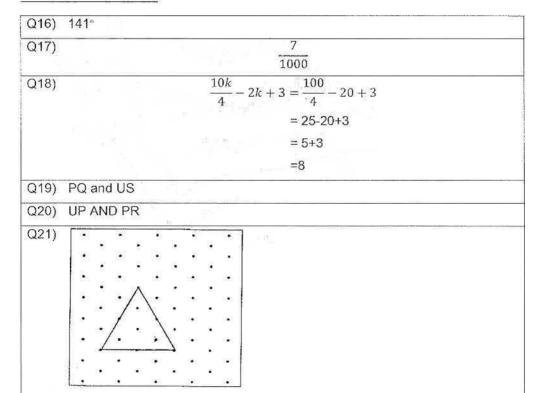
SUBJECT: MATH
TERM: 2020 PRELIM

PAPER 1 BOOKLET A

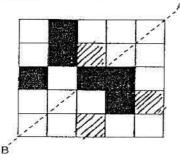
Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	2	3	4	1	4	2	1	3	1

Q 11	Q12	Q13	Q14	Q15	
2	3	1	3	4	

PAPER 1 BOOKLET B



Q22)



Q23)

b)
$$\frac{3}{2}x\frac{21}{1} = \frac{63}{2}$$

=31.5

Q24) 3+4=7

105/7=15

1305

Q25) 5.3+3.1=8.4

24-16=6

8.4/6=1.4

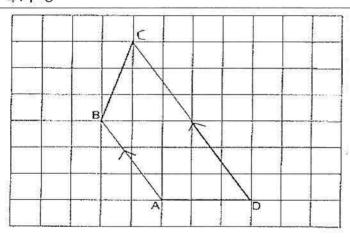
Q26) 32-8=24

24/3=8

8x0.5=4

4+1=5

Q27)



Q28) 100/8=12R4

12 x 3=36

Q29) 2u=12+60+12=84

1u=42

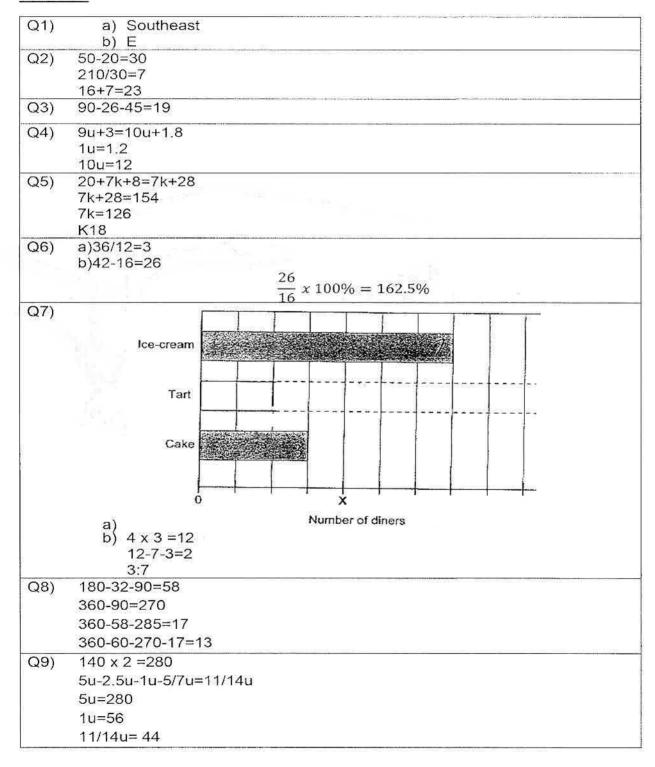
Q30) 3u+1u+3u+1u=8u

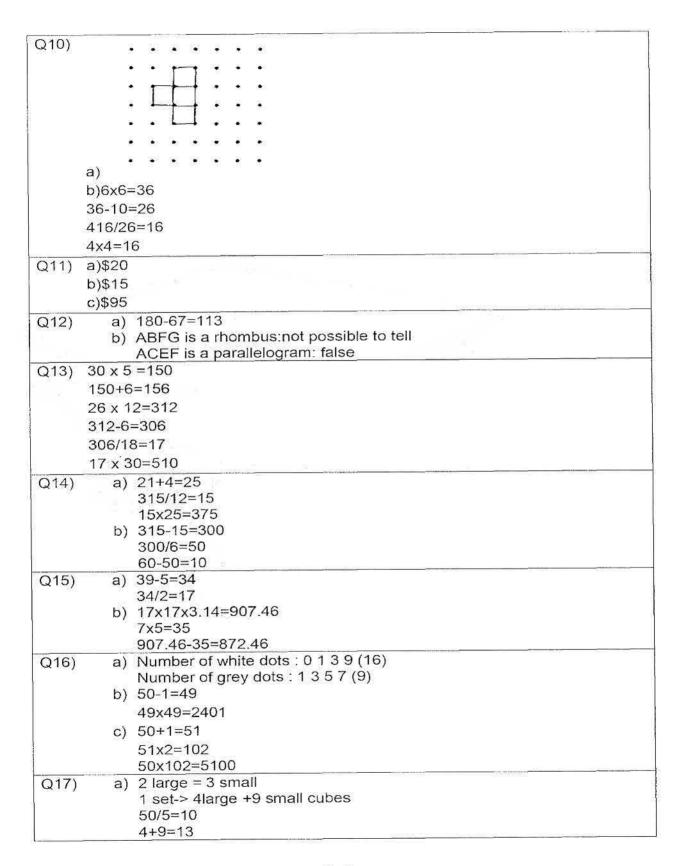
8u=56

1u = 7

3u=21

PAPER 2





10x13=130 b) Common height->6cm 6/3=2 6/2=3

3x3x3=27

Small=2x2x2=8

216/27=8

216/8=27

8+27=35

Ans: 27/35



HENRY PARK PRIMARY SCHOOL 2020 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 1 (BOOKLET.A)

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

Marks:

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.

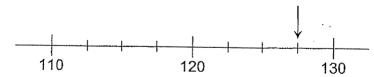
Shade your answers in the Optical Answer Sheet (OAS) provided.

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 In 31.42, which digit is in the tenths place?
 - (1) 1
 - (2) 2
 - (3) 3
 - (4) 4
- Express $1\frac{3}{50}$ as a decimal.
 - (1) 1.06
 - (2) 1.3
 - (3) 1.35
 - (4) 1.6
- Which of the following is closest to the number indicated by the arrow in the number line below?

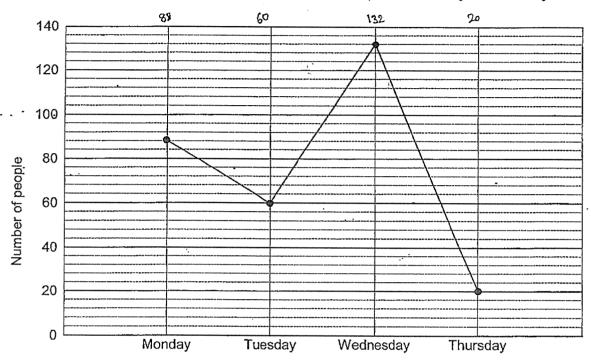


- (1) 123
- (2) 126
- (3) 127
- (4) 129

Andre had a number of red apples, green apples and oranges in the ratio 8:3:2. 4 What is the ratio of the number of oranges to the total number of apples that Andre had? (1) 2:11 2:13 (2)(3)11:2 (4) 13:2 On a bus, 9 of the passengers were men, 15 of the passengers were women and 5 the rest were children. Given that 20% of the passengers were children, how many passengers were there in total on the bus? (1) 24 (2) 30 (3)96 (4) 120 A train left Town X for Town Y. The journey took 3 h 50 min. The train arrived at 6 Town Y at 11 05. What time did the train leave Town X? (1) 07 15 (2) 08 40 (3)08 45 (4) 08 55

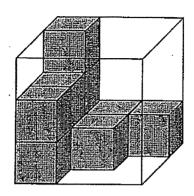
Use the information below to answer Questions 7 and 8.

The graph shows the number of people who visited a shop from Monday to Thursday.



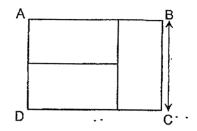
- 7 How many people visited the shop on Monday and Tuesday?
 - (1) 142
 - (2) 144
 - (3) 148
 - (4) 154
- Given that a total of 104 adults visited the shop on Wednesday and Thursday, find the ratio of the number of children to the number of adults who visited the shop on these two days.
 - (1) 6:13
 - (2) 6:19
 - (3) 13:6
 - (4) 13:19

The figure below shows a plastic cubical container partly filled with unit cubes. How many more unit cubes are needed to fill the container completely?



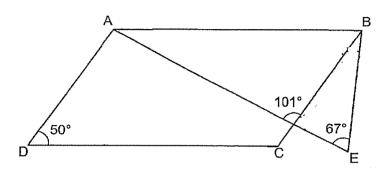
- (1) 8
- (2) 10
- (3) 17
- (4) 19
- 10 Which one the following fractions is larger than $\frac{1}{4}$?
 - (1) $\frac{6}{24}$
 - (2) $\frac{5}{21}$
 - (3) $\frac{4}{15}$
 - (4) $\frac{3}{13}$

In the figure below, ABCD is made up of 3 identical rectangles. The perimeter of ABCD is 60 cm. Find the length of BC.



- (1) 6 cm
- (2) 12 cm
- (3) 18 cm
- (4) 20 cm
- The lengths of two ribbons are in the ratio 5 : 3. The length of one ribbon is 30 cm longer than the other. Find the length of the shorter ribbon.
 - (1) 18 cm
 - (2) 45 cm
 - (3) 50 cm
 - (4) 75 cm
- At first, Walter and Ming Ming were facing the same direction. Then, Walter turned 225° anti-clockwise to face South-West and Ming Ming turned 45° clockwise to face South-East. Which direction were Walter and Ming Ming facing at first?
 - (1) East
 - (2) North
 - (3) South
 - (4) West

14 In the figure below, ABCD is a parallelogram and ABE is a triangle. Find ∠ABE.



- (1) 50°
- (2) 84°
- (3) 90°
- (4) 94°
- The chairs in a hall were arranged in rows. Each row had the same number of chairs. William sat on one of the chairs. There were 5 chairs to his right and 5 chairs to his left. There were 4 rows of chairs in front of him and 8 rows of chairs behind him. How many chairs were there altogether in the hall? \(^{13}\)
 - (1) 120
 - (2) 130
 - (3) 132
 - (4) 143



HENRY PARK PRIMARY SCHOOL 2020 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

· PAPER·1 (BOOKLET B)

Name:(,)		7
Class: Primary 6 F			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.

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.

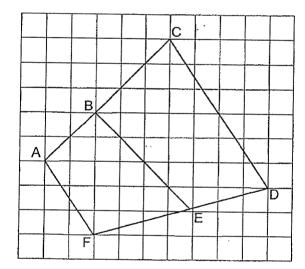
Do not write in this space

(5 marks)

16 Find the value of $\frac{1}{2} \div \frac{1}{10}$

Ans:

17 In the figure below, name two lines that are parallel to each other.



Ans: _____ and ____

A rectangular tank measures 12 cm by 10 cm by 9 cm. What is the capacity of the tank?

Ans: _____ cm³

19	Express 9 minutes as a percentage of 1 hour.	Do not write in this space
	Ans:%	<u> </u>
20	Find the missing number in the box.	-
	8+? ÷ 2 = 12	

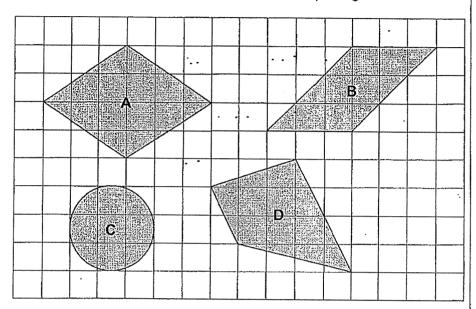


Questions **21** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

Do not write in this space

(20 marks)

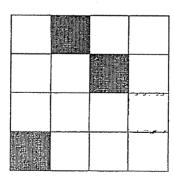
21 (a) Four figures, A, B, C and D are drawn on a square grid.



Name all the figures with at least one line of symmetry.

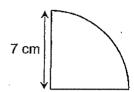
Ans: (a)	

(b) Shade one more square in the figure below to make it symmetrical.



The figure below shows a quarter circle of radius 7 cm. Find the perimeter 22 of the figure. (Take $\pi = \frac{22}{7}$)

Do not write in this space



cm

Mrs Tan deposits \$4000 in XYZ Bank for one year at the interest rate of 23 1.4% per year. How much interest will she get at the end of one year?

Ans: \$

24		ad \$(y + 7). Flora had \$4 less than Ellie. had \$2y more than Flora.	Do not write in this space
	(a)	Find the total amount of money the three girls had in terms of <i>y</i> . Express your answer in the simplest form.	
	(b)	Given that the three girls had a total of \$33, find the value of y.	
		Ans: (a)	
		(b)	
25	and Be have is	en and Charlie have some marbles. The number of marbles that Ace n have is in the ratio 4:5. The total number of marbles Ace and Ben three times the number of marbles Charlie has. Given that Ace and have 350 marbles, how many more marbles does Ben have than	
		-	
		•.	
		Ans:	

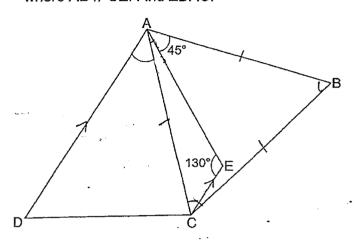
Points scored	- 0	1	2	3	4	5
Number of pupils	3	6	7	8	10	6
a) How many pupils i	n class (3J score	d at leas	t 3 points	s?	
b) Pupils who did not take part in the sec second round. When have scored in ord	econd round. 16 p nat was the least		upils cou number (ıld not ta of points	not take part in points a pupil m	
		Ans: (a)				
piece of wire is bent to force rectangle is twice its br	orm a re	ctangle	of area 1	62 cm².	The leng	gth of

Ans:

cm

In the figure below, ABC is an equilateral triangle and AECD is a trapezium where AD // CE. Find ∠DAC.

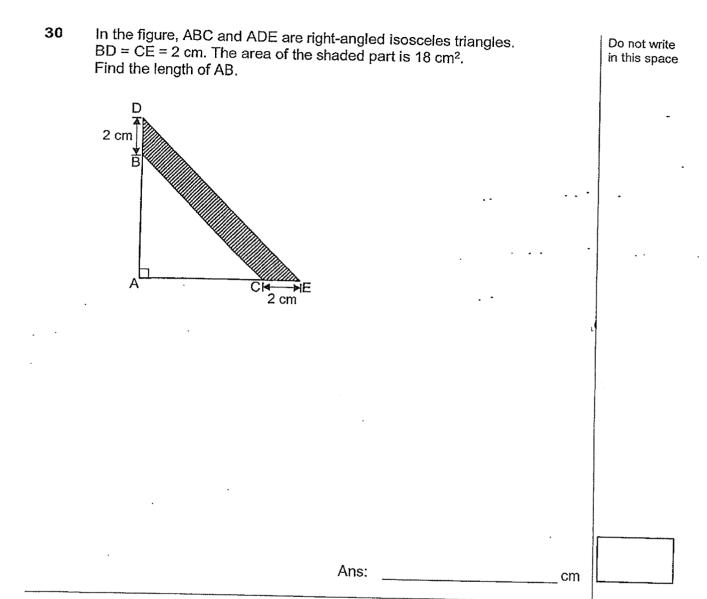
Do not write in this space



Ans: ______°

At first, Kate placed all her beads into 30 boxes with an equal number of beads in each box. 6 of the boxes were broken and the beads in these broken boxes were then placed into the remaining 24 boxes. As a result, the number of beads in each remaining box increased by 10. What was the number of beads in each box at first?

Ane:





HENRY PARK PRIMARY SCHOOL 2020 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 2

		Parent's Signature
Name:()	
Class: Primary 6_F		55

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.

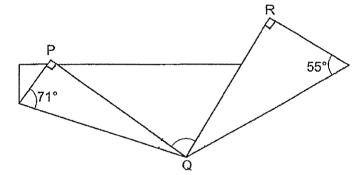
al Bon	stions 1 to 5 carry 2 marks each. Show your working clearly and write your vers in the spaces provided. For questions which require units, give your vers in the units stated.	Do not write in this space
	(10 marks)	
1	Jane had some money. She spent \$15 and gave Lisa \$10. In the end, both Jane and Lisa had the same amount of money. How much more money did Jane have than Lisa at first?	
	•	
		. •
	Ans: \$	
2	Mr Aziz had some apples. He sold $\frac{1}{5}$ of the apples on Monday and 80 apples on Tuesday. In the end, he was left with 30% of the apples he had at first. How many apples did he have in the end?	
	Ans:	

Printer A can print 300 pages in 12 minutes while Printer B can print 300 pages in 10 minutes. If both printers are used at the same time, how many pages can they print in $\frac{1}{2}$ h?

Do not write in this space

Ans:

4 A rectangular piece of paper is folded at two of its corners, P and R, as shown. Find ∠PQR.



Ans: _____°

The figure below is made up of square ABCD and rectangle DEFG. Given that BC = 22 cm and that G is the mid-point of AB, find the area of the figure.

Do not write in this space

Ans:

opacc	uestions 6 to 17 , show your working clearly and write your answers in the s provided. The number of marks available is shown in the brackets [] at do of each question or part-question. (45 marks)	Do not write in this space
6	Chin Meng earned the same amount of money each month. In October, he spent \$1070 and saved the rest. The amount he spent in November was a 30% decrease from what he spent in October. As a result, his savings for November increased by 60%. How much money did Chin Meng-earn each month?	

Ans:

[3]

7 The table below shows the charges for water usage by PRB company.

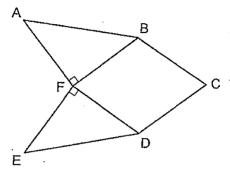
Do not write in this space

Monthly Water Usage	Price per m ³
0 to 40 m ³	\$1.21
More than 40 m ³	\$1.52

- (a) Mdm Salimah's family used 40 m³ of water in August. How much was her family charged for their water usage?
- (b) Mr Muthu spent.\$103.12 on water usage in September. What was the volume of water Mr Muthu used in that month?

Ans: (a)	[1]	
(b)	 [2]	

The figure below is made up of rhombus BCDF and two identical right-angled isosceles triangles, ABF and EFD. The perimeter of rhombus BCDF is 12p cm and the length of AB is (p + 3) cm.

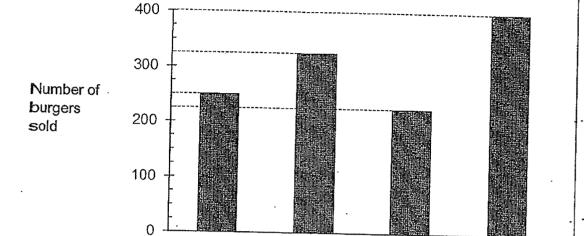


- (a) Find the perimeter of figure ABCDEF in terms of p in the simplest form.
- **(b)** Find the area of triangle ABF given that p = 6

Ans: (a)	[1]
/h\	

The graph below shows the number of burgers sold by a fast food restaurant from February to May.

Do not write in this space



February

(a) What is the average number of burgers sold in each month from February to May?

March

April

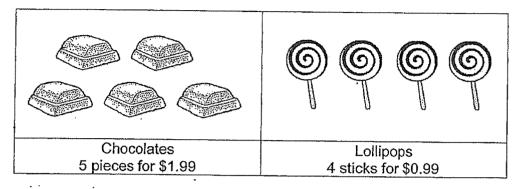
May

(b) Find the percentage increase in the number of burgers sold from February to March.

Ans: (a)	[1]	
(b)		

At Candyland, chocolates are only sold in packets of 5 pieces and lollipops are only sold in packets of 4 sticks at the prices shown below.

Do not write in this space



Judy spent \$101.34 on some chocolates and lollipops at Candyland. She put all the chocolates and lollipops into bags such that there were 3 pieces chocolates and 2 sticks of lollipops in each bag. How many sticks of lollipops did Judy buy from Candyland?

Ans:	141	

In an Art Club, the number of girls is 4 times the number of boys. The number of girls who wear spectacles is $\frac{2}{5}$ the total number of children who wear spectacles in the Art Club. Given that 170 girls and 20 boys do not wear spectacles, find the total number of girls in the Art Club.

Ans: ______[4]

The table below shows the prices of admission tickets to a theme park. 12

Do not write in this space

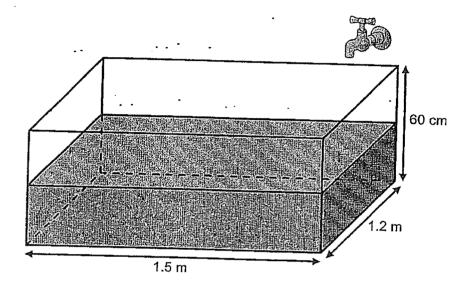
Type of ticket	Price per ticket
Child	\$43
Adult	\$55
Senior Citizen	\$32

 $\$\,4705$ Mr Suraj paid \$5005 for admission tickets to the theme park for a group of tourists. $\frac{2}{3}$ of the tourists were children. The remaining tourists were adults and senior citizens in the ratio 5 : 2. How many children were there in the group of tourists?

Ans:	[5]	

At first, a rectangular tank measuring 1.5 m by 1.2 m by 60 cm was half-filled with water as shown below. A tap was then turned on half an hour to allow water to flow into the tank. In the end, the tank was $\frac{3}{5}$ -filled. How many litres of water flowed from the tap per minute?

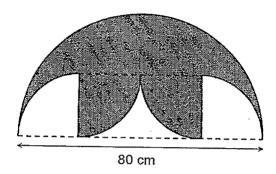
Do not write in this space



Ans: _____[3]

The outline of the shaded figure below is formed by a semicircle, four identical quarter circles and two straight lines.

Do not write in this space



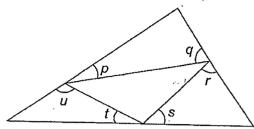
- (a) Find the area of the shaded figure.
- (b) Find the perimeter of the shaded figure.

(Take $\pi = 3.14$)

Ans: (a)	[2	Ì
Ans: (a)	[2	

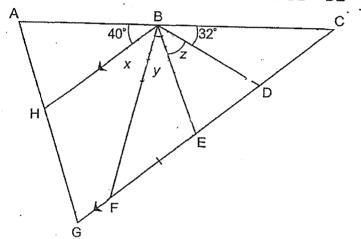
- 15
- (a) In the figure below, find the sum of $\angle p$, $\angle q$, $\angle r$, $\angle s$, $\angle t$ and $\angle u$.

Do not write in this space



Ans: (a) _____[1]

(b) The figure below is not drawn to scale.
In the figure, AGC is a triangle where BH // EG and BD = BE = EF.



(i) Find $\angle z$.

Ans:	[2	1
Ans.	[2	ľ

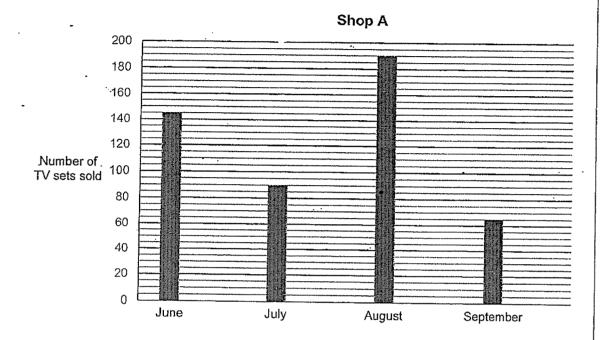
(ii) Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) to indicate your answer.

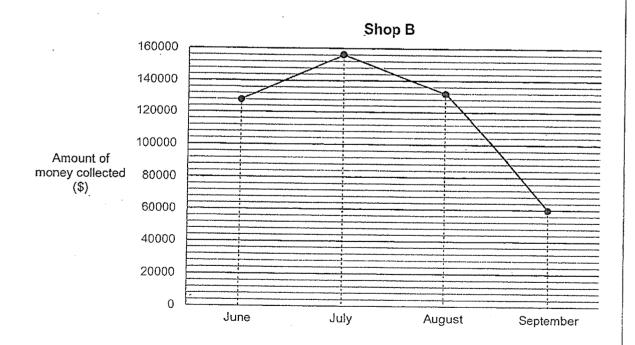
Statement	True	False	Not⊧possible to tell
$\angle x = \angle y = \angle z$ ABEG is a trapezium.		ama dan beri bagai eng ay badi bej	
∠AHB = ∠AGC		<u>.</u>	

[2]

The graphs below show the number of television sets sold by Shop A and the amount of money collected by Shop B from the sale of television sets from June to September.

Do not write in this space





Page 14

(a) Given that Shop B sold each television set at a fixed price of \$1200, Do not write did it sell more, fewer or an equal number of television sets than in this space Shop A in the month of July? Show your working clearly. (b) Shop A had a promotion in the month of August where each television set was sold at 30% discount. Given that Shop A collected \$34 250 more than Shop B in August, find the amount of discount given by Shop A for each television set sold.

Ans: (a)

17	Cedri figure	ic used some sticks to f es are shown below.	orm figures that follow	a pattern. The first four	Do not write in this space
		1 171			
	Figur	re 1 Figure	2 Figure	Figure 4	
	(a)	The table below show Complete the table for	vs the number of sticks or Figure 5.	for the first four figures.	
		Figure number	Number of sticks		•
		1	3		
		2	7		
		3	. 10		
		4	. 14	[4]	
		5			
	(b)	How many sticks are	there in Figure 28?		
	(c)	Cedric used 2327 stic he form?	ks to form a figure. Wh	nich Figure number did	
				•	
			Ans: (b)	[2]	

SCHOOL: HERNRY PARK 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
4	1	3	1	2	1	3	1	3	3

Q 11	·Q12	Q13	Q14	Q15
2	2	1	2	4

PAPER 1 BOOKLET B

Q16)	5
Q17)	AF and CD
Q18)	1080 cm3
Q19)	15%
Q20)	8
Q21)	a)A and C
Q21)	b)
Q22)	25cm
Q23)	\$56
Q24)	a)(5y + 13)
	\$4
Q25)	50
Q26)	a)24
	b)3

Q27)	35°
Q28)	
Q29)	
Q30)	8cm

PAPER 2

01)	10 + 10 + 15 = \$35	
Q1)	10 + 10 + 15 = \$35	
Q2)	30/100 = 3/10	
	1/5 = 2/10	••
	1 - 2/10 - 3/10 = 5/10	
	80 x 2 = 160	
	80 x 2 = 160	•
	3/10 x 160 = 48	
Q3)	½ h = 30min	• *
(, ,	$300 \div 12 = 25$	
	$300 \div 10 = 30$	
	30 x 30 + 25 x 30 = 1650	
	30 X 30 1 23 X 30 = 1030	
Q4)	180 - 55 - 90 = 35	
	180 – 71 – 90 = 19	
	180 – 19 – 19 – 35 = 72°	
Q5)	22 ÷ 2 = 11	
	½ x 11 x 22 = 121	
	22 x 22 = 484	
	484 + 121 = 605cm2	
Q6)	$321 \div 60 = 5.35$	
	5.35 x 100 = 535	
	535 + 100 = \$1605	
Q7)	a)40 x 1.21 = \$48.40	
	b)10312 - 48.4 = 54.72	
	54.72 ÷ 1.52 = 36	
	36 + 40 = 76m3	
00,		
Q8)	a)12p \div 4 = 3p	
	$3p \times 4 + (p+3) \times 2 = 12p + 2p + 6 = (14p + 6)cm$	
	$b)3p = 3 \times 6 = 18$	
	½ x 18 x 18 = 162cm2	

```
Q9)
        a)250 + 325 + 225 + 400 = 1200
          1200 \div 4 = 300
        b)325 - 250 = 75
          75/250 \times 100\% = 30\%
Q10) 10 \times 3 = 30
        10 \times 2 = 20
        20 \div 4 = 5
        30 \div 5 = 6
        6 \times 1.99 + 5 \times 0.99 = 16.89
        101.34 \div 16.89 = 6
        6 \times 20 = 120.
Q11) 20x - 170 = 2/5 \times (20x - 170) + (5x - 20)
        20X = 170 = 2/5 \times (25X - 190)
        20X - 170 = 10X - 76
        20X = 10X + 94
        10x = 94
        20X = 94 \times 2 = 188
Q12) | (14 \times 43) + (5 \times 55) + (2 \times 32) = 941
        4750 \div 941 = 51
        5 \times 14 = 70
Q13) 3/5 \times 60 \times 150 \times 120 = 648000
        648000 - 540000 = 108000
        108000cm3 = 108\ell
        108 \div 30 = 3.6\ell
Q14) | a)80 \div 4 = 20
          20 \times 2 = 40
          20 \times 40 = 800
          \frac{1}{2} x 3.14 x 40 x 40 = 2512
          2512 - 800 = 1712cm<sup>2</sup>
       b)3.14 \times 40 = 125.6
          125.6 + 20 + 20 = 165.6
          125.6 + 165.6 = 291.2cm
       a) 180 \times 3 = 540
Q15)
          540 - 180 = 360^{\circ}
       b)i)180 - 32 - 40 = 108
           180 - 108 = 72
            Z = 180 - 72 - 72 = 36^{\circ}
```

	ii) Not True
Q16)	a)156000 ÷ 1200 = 130 More b)132000 + 34250 = 166250 166250 ÷ 70 x 30 = 71250 71250 ÷ 190 = \$375
Q17)	a)17 b)3 + 4 = 7 21 (7 x 11) = 98 c)2327 ÷ 7 = 332 R3 332 x 2 = 664 664 + 1 = 665



PRELIMINARY EXAMINATION 2020

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:		M. J.M. Alexander	()
Class:	Primary 6 ()		

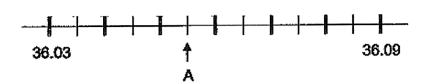
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

1		Which of the following numbers is 12 000 when rounded to the nearest hundred?								
	(1)	11 908								
	(2)	11 950								
	(3)	12 089								
	(4)	12 095								
2	4 ter	ns and 28 hundredths is								
	(1)	40.28								
	(2)	40.028								
	(3)	4 280								

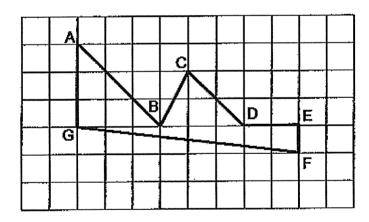
4.028

(4)

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

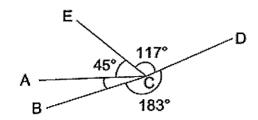


- (1) 36.035
- (2) 36.051
- (3) 36.055
- (4) 36.550
- 4 Which pair of lines is parallel?



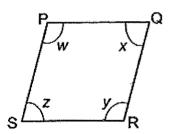
- (1) DE and EF
- (2) AG and BC
- (3) AB and CD
- (4) CD and FG

In the figure below, $\angle BCD = 183^{\circ}$, $\angle ECD = 117^{\circ}$ and $\angle ACE = 45^{\circ}$ Find $\angle BCA$.



- (1) 15°
- (2) 18°
- (3) 35°
- (4) 60°

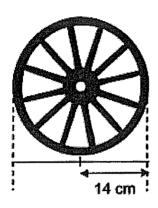
6 In the figure below, PQRS is a rhombus.



Which of the following statements is false?

- (1) $\angle w = \angle y$
- (2) PQ = PS
- (3) PQ // SR
- (4) $\angle x + \angle z = 180^{\circ}$

7 A wheel of radius 14 cm made 10 complete turns. Find the distance covered. Take $\pi = \frac{22}{7}$



- (1) 440 cm
- (2) 880 cm
- (3) 1760 cm
- (4) 6160 cm
- 8 Mrs Field sold (6n + 1) coconuts on Monday. She sold n more coconuts on Tuesday than on Monday. How many coconuts did she sell altogether?
 - (1) 7n+1
 - (2) 11n + 2
 - (3) 13n+1
 - (4) 13n + 2

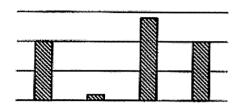
9 The table below shows how Megan spent her money.

	Magazine	Story Book	Eraser	Pencil Case
Amount spent (\$)	6	10	10	14

Which of the following bar graph best represents Megan's spending?

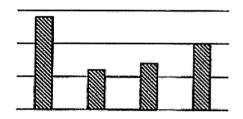
(1)

Amount Spent (\$)



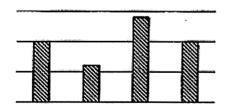
(2)

Amount Spent (\$)



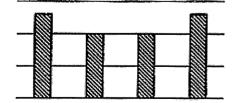
(3)

Amount Spent (\$)



(4)

Amount Spent (\$)



Which of the following is likely to be the volume of a can of soft drink?

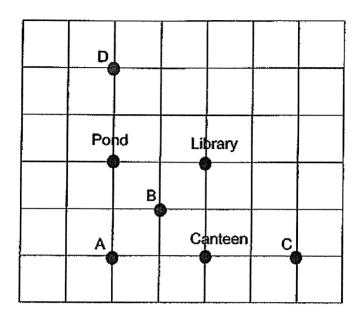


- (1) 3.3 ml
- (2) 33 ml
- (3) 330 ml
- (4) 3300 ml

11 Which of the following fractions is nearest to $\frac{2}{3}$?

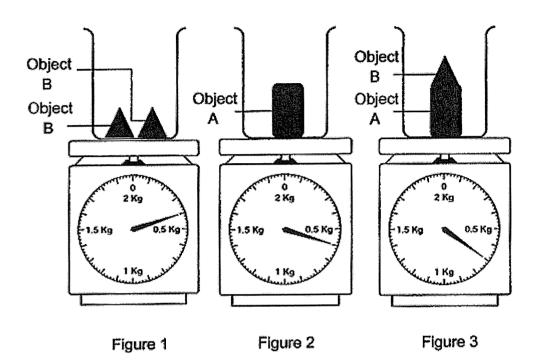
- (1) $\frac{3}{4}$
- (2) $\frac{5}{6}$
- (3) $\frac{7}{9}$
- (4) $\frac{1}{3}$

Seven landmarks on a map of a school are shown in the square grid below. The library is north of the pond. Samad is standing at a location south-east of the library and south of the canteen. Which landmark is Samad standing at?



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

Two of Object B are placed into a beaker on a weighing scale as shown in Figure 1. Object A is placed into an identical beaker as shown in Figure 2. Object A and Object B are placed into an identical beaker as shown in Figure 3. Find the mass of the empty beaker.



- (1) 0.1 kg
- (2) 0.2 kg
- (3) 0.3 kg
- (4) 0.4 kg

14	At a fruit stall, the price of 3 mangoes is the same as the price of 5
	grapefruits. The price of 3 mangoes is also the same as the price of
	10 pears. What is the ratio of the price of a mango to the price of a
	grapefruit to the price of a pear?

- (1) 3:10:5
- (2) 3:5:10
- (3) 10:3:6
- (4) 10:6:3

A repeated pattern is formed using the numbers 0, 1 and 2. The first 18 numbers are shown below.

2	0	2	1	2	0	2	0	2	1	2	0	2	0	2	1	2	0
1 st	2 nd	3rd															18 th

What is the sum of the first 100 numbers?

- (1) 125
- (2) 117
- (3) 116
- (4) 113



PRELIMINARY EXAMINATION 2020

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 24 / 25

Please sign and return the paper the next day. Any queries should be raised at the same time when returning the paper.

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)

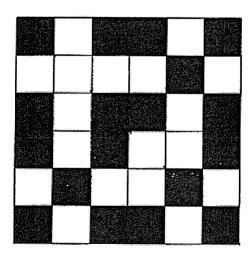
16 Find the value of $\frac{5}{6} \times 24$

Ans:	
MID.	

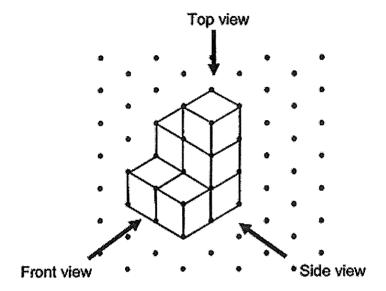
17 Express 735 ml in litres.

Ans:		ŧ
******	 **************************************	7.

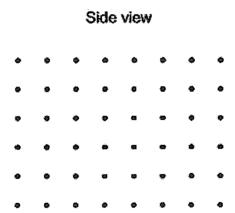
18 There is 1 line of symmetry for the figure below. Draw in the line of symmetry.



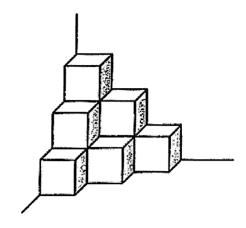
Yong Yi stacked 7 unit cubes and glued them together to form the solid below.



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



20 The solid below is made up of 1-cm cubes. What is the volume of the solid?



Ans: cm	Ans:	cm ⁻
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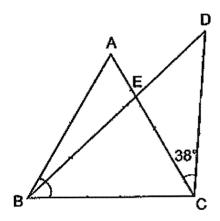
21	Write down all the common factors of 12 and 18.
	Ans:
22	Mdm Hafiz bought a table for \$151.25 and a chair for \$24.15.
	(a) How much did she spend altogether?
	(b) Find the cost of 20 such tables.
	Ans: (a) \$
	(b) \$
23	Michelle started reading her book at 8.56 a.m. She stopped reading her book at 10.05 a.m. on the same day. How long did Michelle spend

24	Mrs Tay baked 120 cookies on Monday and 150 cookies on Tuesday. What was the percentage increase in the number of cookies baked on Tuesday compared to Monday?
	Ans: %
25	Nayla divided some beads equally into 2 groups. She packed the first group of beads equally into 4 boxes and the second group of beads equally into 6 packets. 2 such boxes and 5 such packets contained a total of 6016 beads. How many beads were there in one such packet?
	Ans:
26	Calissa had a piece of cloth. She used $\frac{1}{5}$ m of it to sew a handkerchief and $\frac{3}{5}$ m of it to sew a pouch. She then had $\frac{1}{4}$ m of the cloth left. What was the length of the piece of cloth Calissa had at first?
	Ans: m

27 Kyan had 5 kg of salt. He packed the salt into bags. Each bag contained $\frac{3}{8}$ kg of salt. What was the greatest number of such bags of salt Kyan could have packed?

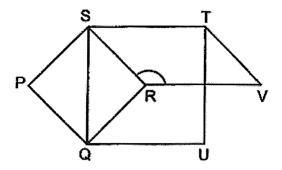
01010-

28 In the figure, ABC is an equilateral triangle. AB = CD and ∠ACD = 38° BED and AEC are straight lines. Find ∠AEB.



A	0
Ans:	

29 In the figure, PQRS and STUQ are two squares. STVR is a parallelogram. Find ∠SRV.



Ans:	•
, ,,,,,,,	•

30 The table shows the number of toys produced by a factory from Monday to Sunday.

Day	Number of toys produced
Monday to Friday	2y per day
Saturday	. 4y-3
Sunday	6y + 8

Find the total number of toys produced in a week given that y = 5.

Ans:	
------	--



PRELIMINARY EXAMINATION 2020

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

Please sign and return the paper the next day. Any queries should be raised at the same time when returning the paper.

your	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)		
1	Carel had $(5k + 13)$ shells at first. She added k more shells and the total number of shells she had became 151. How many shells did Carel add?		
	Ans:		
2	Every minute, Machine A prints 3 pages. Every hour, Machine A and Machine B print a total of 450 pages. How many pages does Machine B print per hour?		
	Ans:		
3	The average of four different 2-digit odd numbers is 27. Two of the numbers are 15 and 29. What could the other two numbers be?		
	Ans:		

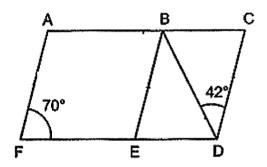
4 Diana was given \$30 to buy some cupcakes from a bakery.



\$2 each30% discount for every 10 cupcakes

What was the greatest number of cupcakes Diana could buy with all her money?

5 ACDF and BCDE are parallelograms. \angle AFE = 70° and \angle CDB = 42°. Find \angle BDE.

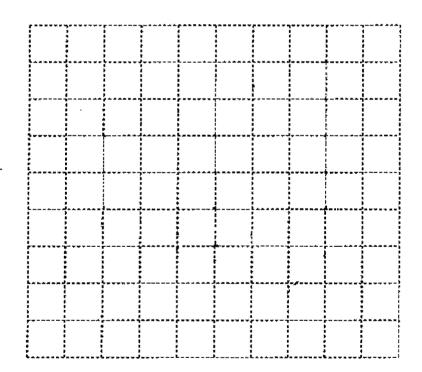


Ans:	¢
5 F4 8 Ph	

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 In the squa	ire grid below	. JK and KL	are straight lines.
---------------	----------------	-------------	---------------------

- (a) Measure and write down the size of ∠JKL.
- (b) JK and KL form two sides of a trapezium JKLM. JM is parallel to KL. KL is twice the length of JM. Complete the drawing of trapezium JKLM.
- (c) KL forms one side of a parallelogram KLNP. The length of JP is twice the length of KP and JKP forms a straight line. Complete the drawing of parallelogram KLNP such that it does not overlap with the trapezium.



[2]

Ans: (a) _____[1]

7 Heidi bought 4 staplers and 6 files. Each stapler cost \$1.20 more than each file. The total cost of the files was \$6.40 more than the total cost of the staplers. Find the cost of one stapler.

Ans:	[3]

8 Maggie baked some pies and muffins. The number of pies was ⁷/₁₁ of the number of muffins. Maggie gave away 6 pies and 14 muffins. In the end, the number of pies left was equal to the number of muffins left. How many pies and muffins did Maggie bake altogether?

Ans:		[3]
2 11 101	······································	7-1

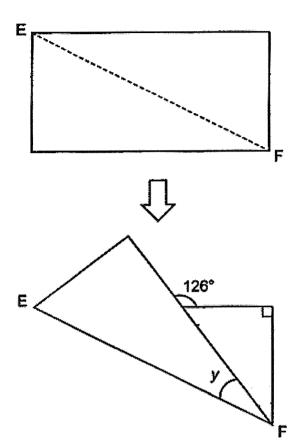
Three children received their scores for a Mathematics test. The average scores of any two of the three children are listed below.

Average Scores
83
86
94

What was the highest score among the three children?

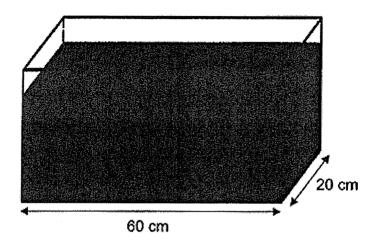
Ans:	(3)
3. 41 L/37	LV.

10 Susie had a rectangular piece of paper. She folded the piece of paper along the line EF. Find ∠y.



Ans: _____[3]

A rectangular tank measuring 60 cm long and 20 cm wide was $\frac{4}{5}$ - filled with water at first. After Matthias poured some water from the tank into some identical jugs, the height of the water level decreased by 18 cm. Each jug can hold at most 2.25 ℓ of water.



(a) What was the least number of such jugs used?

A	1	200
Ans:	(a)	[3]

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

Statement	True	False	Not possible to tell
20% of the tank was not filled with water at first.			
The height of the tank is 22 cm.			

[1]

12	Edwina and Georgia had the same number of bottles. Edwina and
	Georgia each had a mix of big bottles and small-bottles. Edwina had 5
	small bottles while Georgia had 16 big bottles. Each small bottle had a
	capacity of 400 ml. Each big bottle had a capacity of 0.6 L. The total
	capacity of Edwina's bottles was 0.8 I more than the total capacity of
	Georgia's bottles.

- (a) How many big bottles did Edwina have?
- (b) What was the total capacity of Edwina's bottles?

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

The table below shows the number of pupils who wear glasses in Primary 3A and the number of girls who wear glasses in Primary 3B. The number of boys who wear glasses in Primary 3B is not shown. The total number of pupils in each class is fewer than 40.

Class	Gender	Number of pupils who wear glasses
3A	Boys	12
	Girls	11
20	Boys	?
3B	Girls	10

- (a) The total number of pupils in Primary 3A can be divided equally into 4 groups with no pupils leftover. The total number of pupils in Primary 3A can also be divided equally into 6 groups with no pupils leftover. There are 2 girls in Primary 3A who do not wear glasses. How many boys in Primary 3A do not wear glasses?
- (b) The total number of boys in Primary 3B is $\frac{5}{8}$ of the total number of pupils in Primary 3B. How many glrls in Primary 3B do not wear glasses?

Ans:	(a)	<u> </u>	[2]
	(b)		[2]

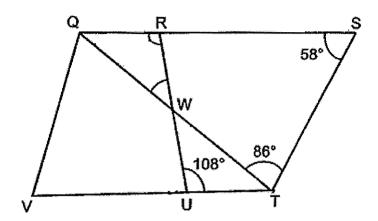
14	There were three types of fruit in a box. The ratio of the number of
	mangoes to the total number of apples and oranges was 2:5. The ratio
	of the number of apples to the number of oranges was 9:1. There were
	30 more apples than mangoes. After some mangoes were added into
	the box, 70% of the fruits in the box were mangoes.

(a)	How many	mangoes	were i	there in	the	end?
-----	----------	---------	--------	----------	-----	------

(b)	How many	mangoes	were add	ed in the	box?
-----	----------	---------	----------	-----------	------

Ans:	(a)	A STATE OF THE STA	[3]
	(b)		[1]
	,		

QRUV and RSTU are trapeziums. QRS, VUT and QWT are straight lines. QS is parallel to VT. ∠QST = 58°, ∠STQ = 86° and ∠RUT = 108°.



(a) Find ∠RWQ.

Ans:	(a)	[2]
F 43 65.0×	(44)	[4]

(b) In the following statement, circle the words that describe QRW correctly and fill in the blanks accordingly:

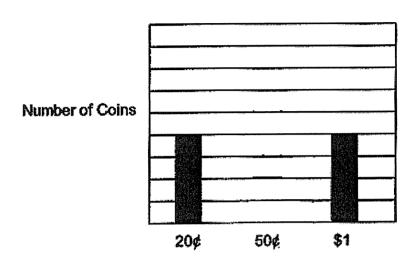
QRW (is / is not) an isosceles triangle because

∠ RQW (is / is not) equal to ∠RWQ

Show your working clearly to explain your answer.

[2]

The bar graph below shows the types of coln that Max had in his piggy bank. The number of 50¢ coins he had was not shown in the graph.



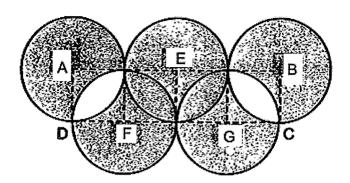
[3]

He had \$44 altogether. The total amount of \$1 coins that he had was \$16 more than the total amount of 20¢ coins that he had.

- (a) How many 20¢ coins did he have?
- (b) Draw the bar for the number of 50¢ coins that Max had in the graph above.

Ans: (a) _____ [2]

The figure is made up of 5 identical circles. AEBGF are centres of the circles. The area of rectangle ABCD is 400 cm².



- (a) Find the radius of the circle.
- (b) Find the area of the shaded parts. Take $\pi = 3.14$

Ans:	(a)	[1]
	(b)	[4]

End of Paper

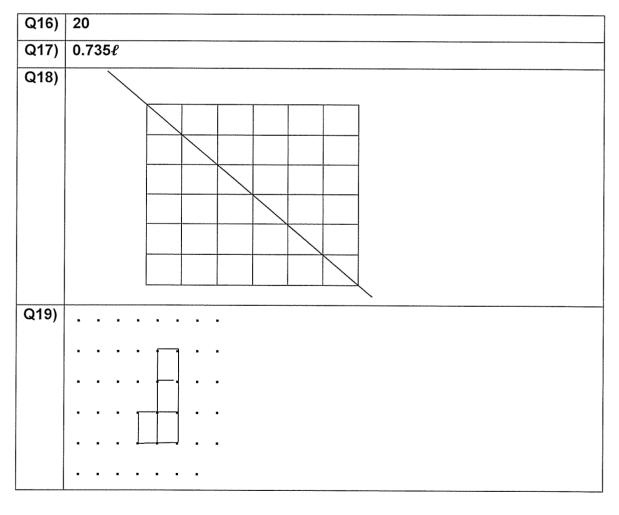
SCHOOL: NANYANG PRIMARY SCHOOL LEVEL: PRIMARY 6
SUBJECT: MATH
TERM: 2020 PRELIM

PAPER 1 BOOKLET A

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

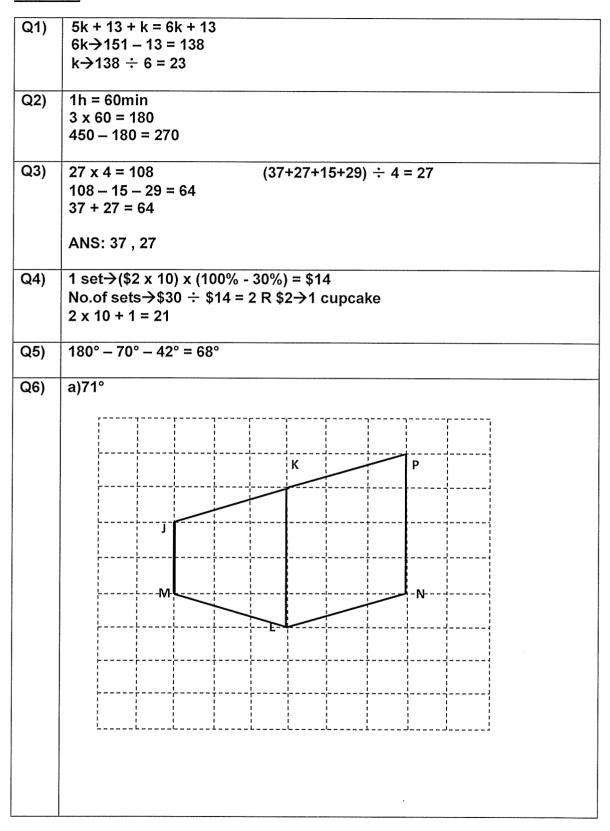
Q 11	Q12	Q13	Q14	Q15
1	1	2	4	2

PAPER 1 BOOKLET B



Q20)	6 + 3 + 1= 10 cm3
Q21)	12 18 1x12 1x18 2x6 2x9 3x4 3x6
	ANS: 1,2,3,6
Q22)	a)\$151.25 + \$24.15 = \$175.40 b)\$151.25 x 20 = \$3025
Q23)	9 min 1h 8.56a.m. 9.05a.m. 10.05a.m.
Q24)	$\frac{30}{120} \times 100\% = 25\%$
Q25)	4B→6p 2B+5p = 6016 4B+10p→12032 6p+10p→12032 16p→12032 p→12032 ÷ 16 = 752
Q26)	$\frac{1}{5} + \frac{3}{5} + \frac{1}{4} = \frac{4}{12} + \frac{12}{20} + \frac{5}{20} = \frac{21}{20} \text{ m}$
Q27)	$5 \div \frac{3}{8} = 5 \times \frac{8}{3} = \frac{40}{3} = 13\frac{1}{3} \approx 13$
Q28)	$180^{\circ} \div 3 = 60^{\circ}$ $(180^{\circ} - 38^{\circ} - 60^{\circ}) \div 2 = 41^{\circ}$ $180^{\circ} - 60^{\circ} - 41^{\circ} = 79^{\circ}$ $180^{\circ} - 79^{\circ} = 101^{\circ}$
Q29)	90° ÷2 = 45° 180° - 45° = 135°
Q30)	Total \rightarrow (2yx5) + 4y - 3 + 6y + 8 = 100 + 5 = 105

PAPER 2



Q7)	1S→1F + \$1.20	
	4S→4F + \$4.80	
	6F→4F + \$4.80 + \$6.40	
	2F→\$4.80 + \$6.40 = \$11.20	
	$1F \rightarrow $11.20 \div 2 = 5.60	
	1S→\$5.60 + \$1.20 = \$6.80	
Q8)	11u – 7u = 4u	
	4u→14 – 6 = 8	
	$u\rightarrow 8 \div 4 = 2$	
	7u + 11u = 18u	
	18u→2 x 18 = 36	
Q9)	83 x 2 = 166	$(75 + 91) \div 2 = 83$
	86 x 2 = 172	$(97 + 75) \div 2 = 86$
	94 x 2 = 188	
	166 + 172 + 188 = 526	
	526 ÷ 2 = 263 (total)	
	Highest : 95 / 96 / 97	ANS: 97
	263 – 97 = 166	
	188 – 97 = 91	
	166 – 91 = 75	
Q10)	180° – 126° = 54°	
,	180° – 90° – 54° = 36°	
	$(90^{\circ} - 36^{\circ}) \div 2 = 27^{\circ}$	
	,	
Q11)	a)60 x 20 x 18 = 21600	
	21600cm3 = 21.6 ℓ	
	$21.6 \ \ell \div 2.25 \ \ell \approx 10$	
	b)True False	
	raise	
Q12)	a)20	
	b)14000ml	
Q13)	a)11 + 12 + 2 = 25	
	36 – 25 = 11	
	b)2	

```
Q14) a)M : A
                                     A: 0: total
         2 : 5
                                     9:1:10
        X2 x2
         4 : 10
        A = 0
        9 = 1
        5u→30
        1u \rightarrow 30 \div 5 = 5 = 6
        4u \rightarrow 6 \times 4 = 24 \text{ (m)}
        10u \rightarrow 6 \times 10 = (A + 0)
        30% →60
        1\% \rightarrow \frac{60}{30} = 2
        70\% \rightarrow 2 \times 70 = 140
        b)140 - 24 = 116
Q15) a)36°
       b)is / is
Q16) a 31 - $0.20 = $0.80
         $16 \div $0.80 = 20
       b)20 \times $0.20 = $4
         20 \times $1 = $20
          $44 - $20 - $4 = $20 (50¢)
          $20 \div 0.50 = 40
Q17) | a)400 \div 4 = 100
         \sqrt{100} = 10cm
       b) \frac{1}{4} x 3.14 x 25 = 78.5
          78.5 - 50 = 28.5 (half leaf)
          28.5 \times 2 = 57 (1 leaf)
          2 (5 + 3 ( ) →12( )
          78.5 \times 12 = 942
          942 + 285 = 1228cm<sup>2</sup>
```



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

Name:	()
Form Class: P6	Math Teacher:
Date: 19 Aug 2020	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	

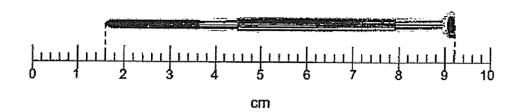
INSTRUCTIONS TO CANDIDATES

- 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.

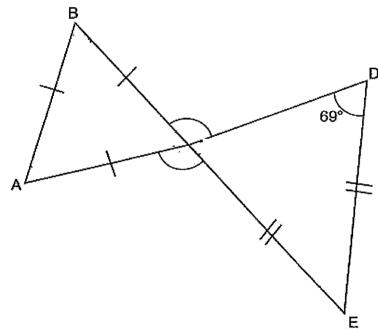
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

- 1. The value of the digit 5 in 954 687 is ______.
 - (1) 500
 - (2) 5000
 - (3) 50 000
 - (4) 500 000
- 2. Which one of the following is closest to 1?
 - (1) $\frac{1}{7}$
 - (2) $1\frac{1}{6}$
 - (3) $1\frac{1}{9}$
 - (4) $1\frac{1}{8}$
- 3. Round off 28 784 to the nearest tenth.
 - (1) 28.7
 - (2) 28.8
 - (3) 29.0
 - (4) 30.0

4. What is the length of the screw driver?

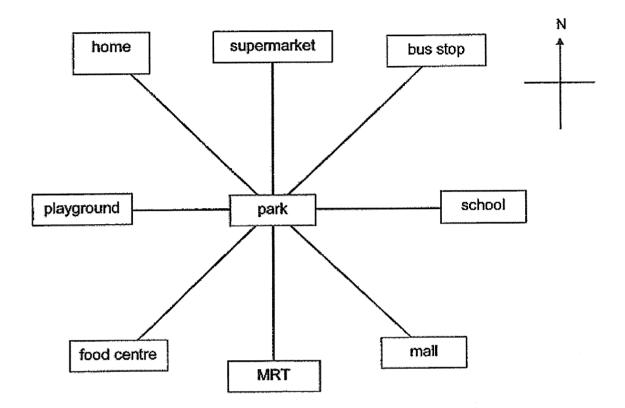


- (1) 7.3 cm
- (2) 7.6 cm
- (3) 9.1 cm
- (4) 9.2 cm
- 5. In the figure, ABC is an equilateral triangle. CDE is an isosceles triangle. BCE is a straight line. ∠CDE = 69°. Find the sum of ∠BCD and ∠ACE.



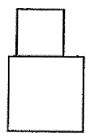
- (1) 129°
- (2) 222°
- (3) 231°
- (4) 240°

6. Gordon was at the park. He turned an angle of 315° anti-clockwise to face the direction of his home. Where was he facing before the turn?



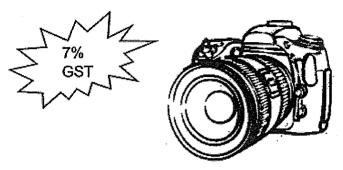
- (1) playground
- (2) supermarket
- (3) food centre
- (4) bus stop

7. The figure is made up of 2 squares. The area of the 2 squares are 64 cm² and 25 cm². What is the perimeter of the figure?



- (1) 42 cm
- (2) 47 cm
- (3) 52 cm
- (4) 89 cm
- 8. Abel had 3 times as many books as Thomas. Abel donated $\frac{1}{4}$ of his books to charity. What was the ratio of the number of books Thomas had to the number of books Abel had in the end?
 - (1) 3:4
 - (2) 4:9
 - (3) 9:4
 - (4) 9:7

9. Calvin bought a camera. The GST amount was \$70. How much did he pay for the camera inclusive of GST?



- (1) \$107
- (2) \$170
- (3) \$1000
- (4) \$1070
- 10. 3 + 6a = 27. What is the value of a?
 - (1) 180
 - (2) 144
 - (3) 5
 - (4) 4
- 11. Ai Lin bought 2 tables and 20 chairs for her office. She spent \$120 more on the tables than the chairs. She spent a total of \$840. How much did she spend on one chair?
 - (1) \$18
 - (2) \$24
 - (3) \$180
 - (4) \$360

12. $\frac{1}{2}$ of Janice's mass is the same as $\frac{1}{5}$ of Randy's mass.

Their total mass is 49.14 kg. Find Janice's mass.

- (1) 7.02 kg
- (2) 14.04 kg
- (3) 14.4 kg
- (4) 35.1 kg
- 13. A dining table was sold at a discount. The discounted price was 20% less than the usual price. The usual price was \$720. How much was the discount?
 - (1) \$20
 - (2) \$120
 - (3) \$144
 - (4) \$576
- 14. Ali and Zainal each bought the same mass of minced meat. They prepared each patty with the same mass of minced meat. Ali made 20 patties and had 5.6 kg of minced meat left. Zainal made 60 patties and had 400 g of minced meat left. What was the mass of minced meat used for each patty?
 - (1) 65 g
 - (2) 75 g
 - (3) 130 g
 - (4) 150 g

- 15. Tap A can fill a pail in 6 min. Tap B can fill the same pail in 3 min. How long would it take to fill the pail completely when both taps are turned on at the same time?
 - (1) 0.5 min
 - (2) 2 min
 - (3) 4.5 min
 - (4) 9 min

For qu	uestions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. or questions which require units, give your answers in the units stated. All diagrams e not drawn to scale. (5 marks)		
16.	Find the value of 50 - (24 ÷ 2 × 3) + 4.		
	Ans:		
17.	When a flight departed from Singapore, the time in Perth was 8.50 p.m. The flight arrived in Perth 5 h 15 min later. At what time in Perth did the flight arrive? Give your answer in 24-hour clock.		
	Ans:		
18.	Express $\frac{78}{9}$ as a mixed number in the simplest form.		
	Ans:		

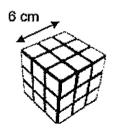
19.	Find the sum of 11 tens, 1 tenth and 10 hundredths.
	Ans:
20.	Find the average of 180 cm and 1.2 m. Leave your answer in metres.
	Ans:m

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. Pillai mixed milk and rose syrup to make a drink. He used $\frac{7}{8}\ell$ of milk. The amount of rose syrup used was $\frac{1}{6}\ell$ less than the milk used. How much milk and rose syrup did Pillai use altogether? Leave your answer as a mixed number in the simplest form.

Ans:	g

22. Alex has a box measuring 40 cm by 50 cm by 60 cm. He wants to pack identical rubik's cubes of edge 6 cm into the box. What is the maximum number of rubik's cubes he can pack into the box?

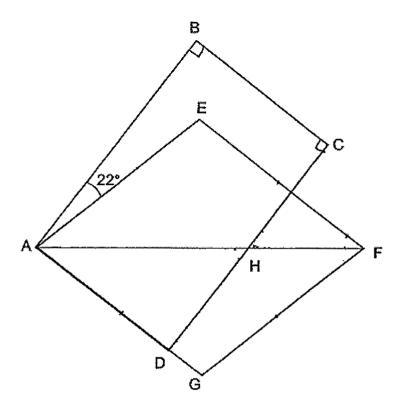


Ans: _____

Ans:	
male members and 545 female members cancelled their gym membersh	
male members and 545 female members cancelled their gym membersh	
female members. How many female members remained at the gym? Ans:	ip,

25. In the figure, ABCD is a rectangle and AEFG is a rhombus.

AHF is a straight line and $\angle BAE = 22^{\circ}$. Find $\angle CHF$.

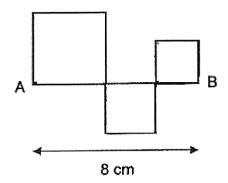


Ans:

26. Anna needed 20 pieces of wires, each of length 0.3 m. The wires were sold in rolls of 2 m each. What was the least number of rolls of wire that Anna needed to buy?

Ans: _____

27. The figure is made up of 3 squares. AB is a straight line. What is the perimeter of the figure?



Ans:	cm

28. The table shows the rate for renting a karaoke room at a community club.

First 2 hours	\$9 per hour
Every additional 30 min	\$8 per 30 min

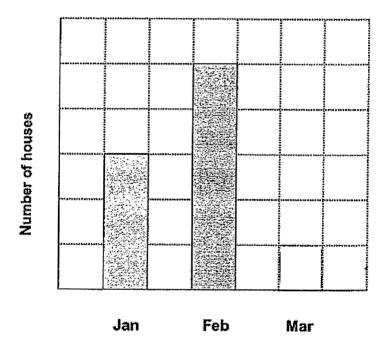
A group of friends paid a total of \$42 for the rental of a karaoke room. How many hours did they rent the karaoke room for?

Ans:	<u> </u>	
MI 19.		

29. Sara had $\frac{5}{6}$ m² of fabric. She cut out $\frac{1}{4}$ of it and used the remaining fabric to make 5 identical masks. How much fabric did she use to make 1 mask?

Ans:	
AHS	m

30. The graph shows the number of houses sold from January to March.
The bar for the number of houses sold in March has not been drawn.



The total number of houses sold in February and March was $\frac{2}{3}$ of the total number of houses sold over the 3 months.

Complete the graph by shading to show the number of houses sold in March.

End of Paper Please check your work carefully ©



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

Name:	(' ')
Form class: P6	Math Teacher:
Date: 19 Aug 2020	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.	There were 538 females and 306 males at a carnival, 110 females left and
	25 males entered the carnival. What was the percentage decrease in the
	total number of people at the carnival? Round your answer to the nearest
	1 decimal place.

_		
Ans	•	0/_
UIIO	*	70

2. The table shows the points scored by 3 children in a game.

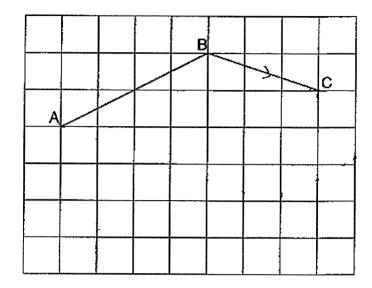
Participants	Ali	Bala	Charlie
Score	21	?	3

Their total score was 135. All their scores were 2-digit numbers. What was the lowest possible score among the 3 of them?

Amar	
Ans:	

In the square grid, AB and BC form two sides of a trapezium ABCD.
 There are 2 right angles in ABCD.

Complete the drawing of trapezium ABCD.



4. Amos is 12 years younger than his sister. The ratio of Amos' age to his sister's age is 1:5. In how many years' time will the ratio of Amos' age to his sister's age be 2:5?

Ans: _____years

5. The table shows the number and the cost of each type of flowers sold at a florist.

Flower	Number of flowers sold	Cost
Rose	135	\$2 each
Lily	2y	\$2.50 each
Carnation	4 <i>y</i>	4 for \$5

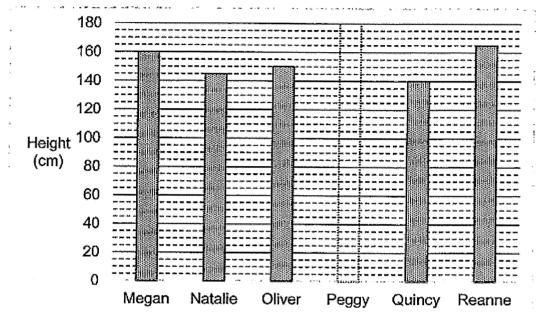
Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick(\checkmark) to indicate your answer.

Statement	True	False	Not possible to tell
(a) If the total number of flowers sold was 405, 180 carnations were sold.			
(b) The amount of money collected from selling the lilies and the carnations were the same.	•		And the second s
(c) The amount of money collected from selling the roses was the highest among the 3 types of flowers.	-		

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)

The bar chart shows the height of 6 people. The bar that shows Peggy's height has not been drawn.

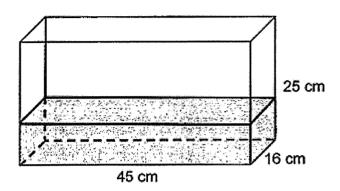


Peggy's height was 20 cm more than the average height of Quincy and Megan.

- (a) What was the height of Peggy?
- (b) Who was/were taller than the average height of all the people?

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

7. A rectangular tank measuring 45 cm by 16 cm by 25 cm was $\frac{1}{3}$ filled with water. After water from some identical bottles was poured into the rectangular tank, it became $\frac{7}{8}$ full. The capacity of each bottle was 650 ml. What was the minimum number of bottles used to pour the water into the rectangular tank?



Ans: _____[3]

- 8. Mr Choo needs a total of 15 h to prepare 1800 rice dumplings. He prepares the same number of rice dumplings every hour. When his wife helps him for 4 h, 1800 rice dumplings can be prepared in 9 h.
 - (a) What is the average number of rice dumplings that Mr Choo's wife prepares in the 4 hours?
 - (b) What is the difference in the time taken between Mr Choo and his wife if she prepares 1800 rice dumplings alone?

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

9. At its year-end sale, a company sold calendars and diaries at the prices shown.



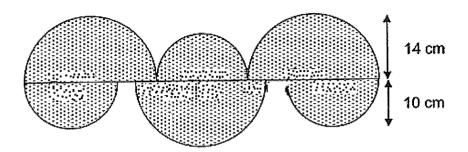
An equal number of calendars and diaries were sold. The company collected a total of \$29 815 from the sale of calendars and diaries. How many calendars and diaries did the company sell in all?

Ans:	 [3]	

10.	In a school, 55% of the pupils are girls and the rest are boys. As a school, 40% of the boys wear spectacles and 60% of the pupils wear spectacles.
	(a) What percentage of the pupils are girls who wear spectacles?
	(b) 208 girls do not wear spectacles. How many pupils are there altogether?
	Ans: (a)[2]

(b) ____[1]

11. The figure is formed by 3 identical big semicircles and 3 identical small semicircles.



Use the calculator value of π to find the perimeter of the figure. Round your answer to 2 decimal places.

12. The figure shows a parallelogram PQRS drawn on a grid.

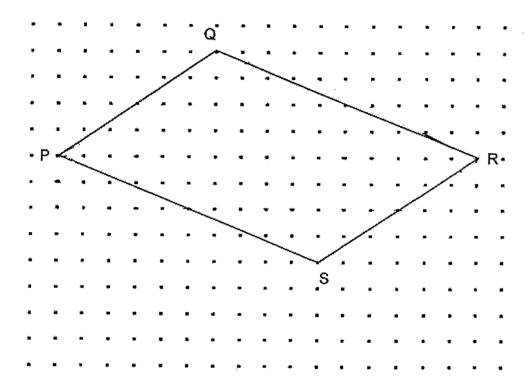
(a) PRTU is a rectangle that has half the area of PQRS.

Draw PRTU on the grid.

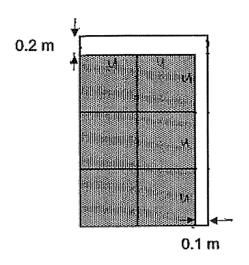
[2]

(b) PRV is an isosceles triangle that has the same area as rectangle PRTU. Draw PRV on the grid such that it does not overlap with rectangle PRTU.

[1]



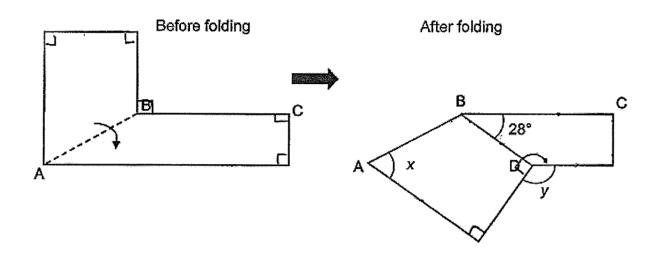
13. The figure shows 6 identical squares inside a rectangle. The arrangement results in a gap of 0.2 m at the top and a gap of 0.1 m at the side. The area of the unshaded region is 3000 cm².



What is the area of the rectangle?

\ns:	[4]	
uio,	 r .1	

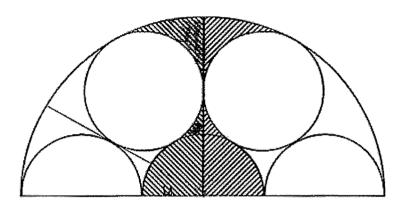
- 14. A L-shaped paper is made up of perpendicular lines. It is folded along line AB as shown. ∠CBD = 28°.
 - (a) Find $\angle x$.
 - (b) Find $\angle y$.



Ans: (a) _____[2]

(b) _____[2]

- 15. The figure is made up of a big semicircle of radius 30 cm. 2 circles and 3 semicircles of equal radius are drawn in the big semicircle.
 - (a) What is the radius of the circle?
 - (b) What is the area of the shaded parts? Take $\pi = 3.14$ Round your answer correct to 1 decimal place.



Ans:	(a)	[1	
	/L\	10	, "

- 16. Mdm Nurul had some red and green apples in her minimart. The ratio of the number of red apples to the number of green apples was 13:7. After selling 60% of the red apples and 55 green apples, the ratio of the number of red apples to the number of green apples was 13:12.
 - (a) How many apples were there altogether at first?
 - (b) After that, she bought more red apples. The number of red apples she bought was $\frac{3}{10}$ of the number of red apples left before that. How many red apples did she have in the end?

Ans: (a)	[3]
(b)	121

17.		er, Roger and Mary each had a sum of money. They decided to split their ner bill equally.
		oger were to pay for the bill first, the sum of his remaining money would be Mary's money.
		ary were to pay for the bill first, the sum of her remaining money would be of Roger's money.
	lf Pe	eter were to pay for the bill first, he would have used up all his money.
	(a)	Given that Mary had \$126 more than Roger, how much was each person's share of the bill?
	(b)	Express Peter's sum of money as a fraction of their total sum of money
		Ans: (a)[4]

End of Paper Please check your work carefully ⊚

(b) _____[1]

SCHOOL: RAFFLES GRILS' 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	3	2	2	3	1	1	2	4	4

Q 11	Q12	Q13	Q14	Q15
1	2	3	3	2

PAPER 1 BOOKLET B

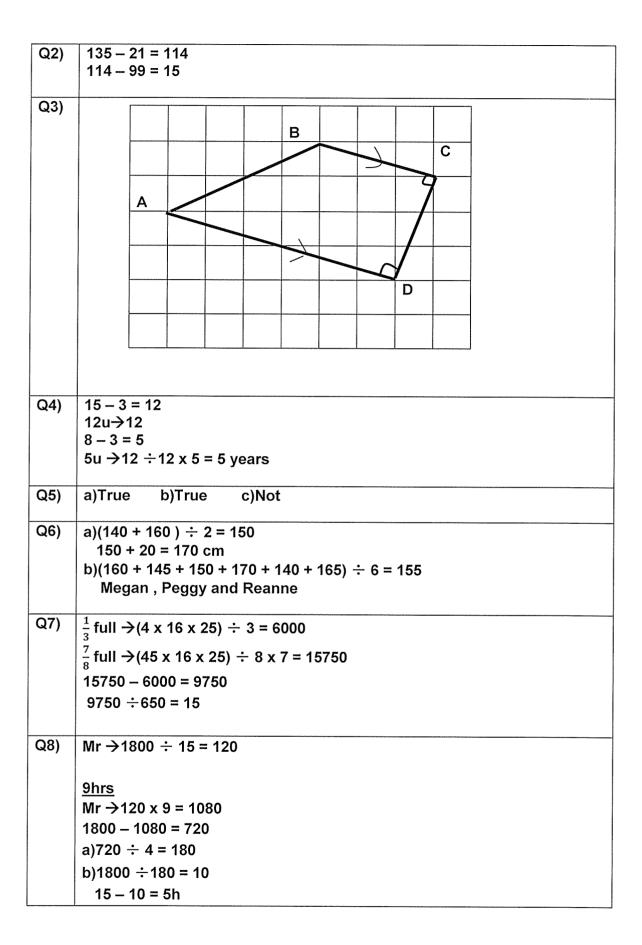
,	
Q16)	50 – 36 + 4 = 18
Q17)	02 05
Q18)	$8\frac{2}{3}$
Q19)	11 x 10 = 110
	$10 \times 0.01 = 0.1$
	110 + 0.1 + 0.1 = 110.2
Q20)	1.2m x 100 = 120cm
	$(180 + 120) \div 2 = 150$
	150cm = 1.5m
Q21)	$M \to \frac{7}{8} \left(\frac{21}{24} \right)$
	$R \rightarrow \frac{7}{8} - \frac{1}{6} = \frac{21}{24} - \frac{4}{24} = \frac{17}{24}$
	Total $\rightarrow \frac{21}{24} + \frac{17}{24} = \frac{38}{24} = 1 \frac{14}{24} = 1 \frac{7}{12} \ell$
Q22)	40 ÷ 6 = (6) R4
	$50 \div 6 = (8) R2$
	60 ÷ 6 = (10)
	$6 \times 8 \times 10 = 480$

Q23)	24u ÷8 = 3u
	(3u – 4)cookies
:	
Q24)	545 – 265 = 280
-	8u→280
	u→280 ÷8 = 35
Q25)	$(90-22) \div 2 = 34$
	180 – 90 – 34 = 56°
Q26)	0.3 x 100 = 30
	2 x 100 = 200
	200 ÷ 3 = (6) R20
	20 ÷6 = (3) R2
	3 + 1 = 4
Q27)	4 x 8 = 32cm
Q28)	$1^{st} + 2^{nd} hr \rightarrow $9 \times 2 = 18
	\$42 - \$18 = \$24
	\$24 ÷\$8 = 3
	3 x 30 min = 90 min
	= 1h 30 min
	1h 30min + 1h + 1h = 3h 30min = 3.5h
Q29)	Left $\rightarrow \frac{5}{6}$ x $\frac{3}{4}$ = $\frac{5}{8}$
	1 mask $\rightarrow \frac{5}{8} \div 5 = \frac{5}{8} \times \frac{1}{5} = \frac{1}{8} \text{ m2}$
	8 8 5 8
Q30)	Mar = 1u

PAPER 2

Q1)
$$538 - 110 = 428$$

 $306 + 25 = 331$
Before $\rightarrow 538 + 306 = 844$
After $\rightarrow 428 + 331 = 759$
 $844 - 759 = 85$
 $\frac{85}{844} \times 100\% = 10.1\%$



00)	$C \rightarrow 24 \div 6 \times 37 = 148$	
Q9)		
	$D \rightarrow 24 \div 8 \times 99 = 297$	
	$29815 \div (148 + 297) = 67$	
	67 x (24 24) = 3216	
Q10)		
	b)13u→208	
	100u→208 ÷13 x 100 = 1600	
Q11)	Diameter of 28 + 2	0 + 28 = 76
		8 + 20 = 68
	Small semi \rightarrow 10 x 2 = 20 (76 – 6	$68) \div 2 = 4$
	Perimeter 0f $\rightarrow \frac{3}{2}$ x π x 28 = 42 π	
	$\Rightarrow \frac{3}{2} \times \pi \times 20 = 30\pi$	
	→ 4 + 4 = 8	
	Total \rightarrow 42π + 30π + 8 ≈ 234.19cm	
Q12)		
	P A A A A A A A A A A A A A A A A A A A	R.
Q13)	b \rightarrow (3x) x 10 = 30x 70x + 200 = 3000 X \rightarrow (3000 - 200) \div 70 = 40 3x \rightarrow 40 x 3 = 120 2x \rightarrow 40 x 2 = 80	
	(120 + 20) x (80 + 10) = 12600cm2	

```
Q14) a)360 - 90 = 152
           (270 - 28) \div 2 = 121
           180 - 121 = 59^{\circ}
         b)180 - 28 - 152
           360 - 152 - 90 = 118^{\circ}
Q15) | a)3u→30cm
           2u \rightarrow 30 \div 3 \times 2 = 20cm
           20 \div 2 = 10
         b)Area of..
          Big qued \rightarrow \frac{1}{4} x 3.14 x 30 x 30 = 706.5
          1¾ small circle →549.5
          3 \longrightarrow 706.5 - 549.5 = 157
         1 \longrightarrow 157 \div 3 = 52\frac{1}{3}
         Small quad \rightarrow \frac{1}{4} \times 3.14 \times 10 \times 10 = 78.5
         Total shaded \rightarrow (52\frac{1}{3} + 78.5) x 2 \approx 261.7
Q16) 5.5u->55
         32.5 + 17.5 = 50
         a)50u \rightarrow 55 \div 5.5 \times 50 = 500
         b)13u\rightarrow55 \div5.5 x 13 =130
            130 \div 10 \times 13 = 169
Q17) a 4u + x = 15p
           9u - x = 11p
           36u + 9x = 135p
           36u - 4x = 44p
           13x →91p
           X →7p
           15p - 7p = 8p
           4u = 8p
           9u = 18p
           18p - 15p = 3p
           3p→126
           7p \rightarrow 126 \div 3 \times 7 = 294
           294 \div 3 = 98
        b)^{\frac{7}{40}}
```



RED SWASTIKA SCHOOL

2020 PRELIMINARY ASSESSMENT

MATHEMATICS PAPER 1

Name		(1
Class	: Primary 6 /		
Nate	· 20 Aug 2020		

BOOKLET A

15 Questions 20 Marks Duration of Paper 1 (Booklets A & B): 1 hour

Note:

- 1. Do not open this Booklet until you are told to do so.
- 2. Read carefully the instructions given at the beginning of each part of the Booklet.
- 3. Do not waste time. If a question is difficult for you, go on to the next one.
- 4. Check your answers thoroughly and make sure you attempt every question.
- 5. In this booklet, you should have the following:
 - (a) Page 1 to Page 5
 - (b) Questions 1 to 15
- 6. You are not allowed to use a calculator.

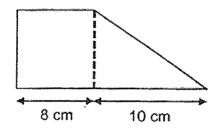
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

- Which of the following is eight hundred and two thousand and seven in figres?
 - (1) 80 207
 - (2) 802 007
 - (3) 820 007
 - (4) 8 002 007
- 2 Express 5004g as kg and g.
 - (1) 5 kg 4 g
 - (2) 5 kg 40 g
 - (3) 50 kg 4 g
 - (4) 50 kg 40 g
- 3 Which of the following is the smallest?
 - (1) 8.27
 - (2) 8.72
 - (3) 8.207
 - (4) 8.702
- Which of the following is equivalent to $\frac{15}{20}$?
 - (1) $\frac{9}{16}$
 - (2) $\frac{10}{15}$
 - (3) $\frac{9}{15}$
 - (4) $\frac{9}{12}$

5 The radius of a circle is 10 cm . Find the circumference of the circle.

Take $\pi = 3.14$

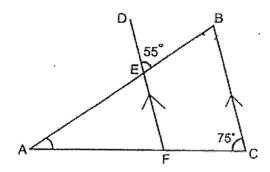
- 31.4 cm (1)
- 62.8 cm (2)
- 78.5 cm (3)
- 314 cm (4)
- 6 The figure is made up of a square and a right-angled triangle. Find the area of the figure.



- (1)72 cm²
- 104 cm² (2)
- (3) 114 cm²
- (4)144 cm²
- 7 Which letter below is not symmetrical?

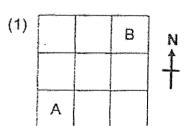
- T
- (1) (2) 0
- (3)W
- (4)
- What is the value of $2m + \frac{m-1}{10}$ when m = 3? 8
 - (1) 5.6
 - (2) 5.8
 - (3)6.2
 - (4) 6.4

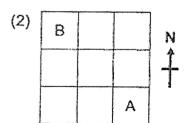
- The average of two numbers is 38. When a third number is added, the average of the three numbers is 40. Find the third number.
 - (1) 39
 - (2) 42
 - (3) 44
 - (4) 82
- In the figure below, ABC is a triangle. ∠DEB = 55° and ∠FCB = 75°.BC is parallel to DF. Find ∠EAF.

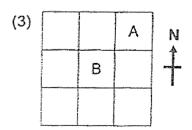


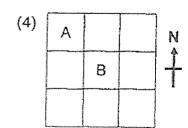
- (1) 20°
- (2) 50°
- (3) 55°
- (4) 75°
- Points A and B are drawn on square grid below.

 Which of the following shows A is south-west of B correctly?



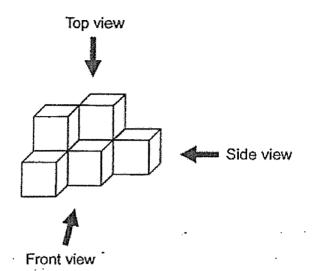


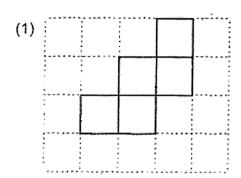


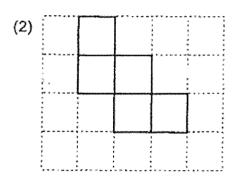


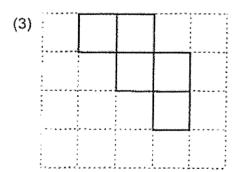
The solid below is made of 7 cubes.

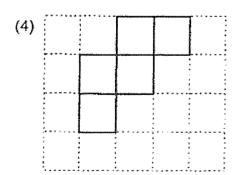
Which of the following shows the top view of the solid correctly?











- At a supermarket, 5 apples are sold at \$3.55. What is the price of 30 apples?
 - (1) \$17.75
 - (2) \$21.30
 - (3) \$106.50
 - (4) \$124.25
- A group of students was asked to vote for their favourite fruit from a list of 4 fruits. The table shows the number of students who voted for each fruit. How many type(s) of fruit(s) was/were voted as a favourite by more than 25% of the students?

Types of fruit	Apple	Banana	Orange	Pear ·
Number of students	30	18	10	22

- (1) 1
- (2) 2
- (3) 3
- (4) 4
- A number is the sum of all the factors of 14. Which of the following can be added to the number to change it to a multiple of 9?
 - (1) 5
 - (2) 8
 - (3) 3
 - (4) 4



RED SWASTIKA SCHOOL

2020 PRELIMINARY ASSESSMENT

MATHEMATICS PAPER 1

Name:)
Class : Primary 6 /	
Date : 20 Aug 2020	
BOOKLET B	
15 Questions	
25 Marks	
In this booklet, you should have the following:	
(a) Page <u>6</u> to Page <u>12</u>	
(b) Questions 16 to 30	

MARKS

5 to 10 to 1	OBTAINED	POSSIBLE
BOOKLET A		20
BOOKLET B		25
TOTAL		45

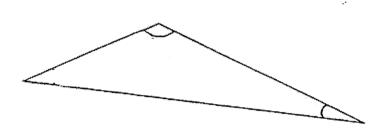
Parent's Signature :

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 Find the value of 58 x 60.

Ans: _____

17 Use a protractor to measure the obtuse angle in the triangle below and write the answer in the answer space provided.



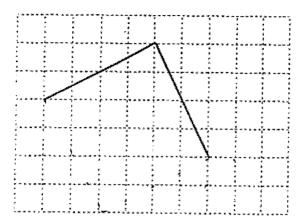
Ans: _____

The table below shows the number of dollar notes that Kim has saved. Find the total amount of money Kim has saved.

	VI.			
Type of dollar notes	\$2	\$5	\$10	
Number of dollar notes	4	5	1	

Ans: \$_____

On the grid below, draw two straight lines to complete a symmetrical figure.



A machine takes 5 minutes to make 3 boxes. With two such machines working at the same given rate, how mant minutes would be needed to make 90 such boxes?

Ans:	*	n	ni	r	
------	---	---	----	---	--

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.

(20 marks)

21	Cind tha	value of
4 1	rino ine	value or

- (a) $8 \times 4 \div 2 1$
- (b) $20 (3 \pm 4 \times 2)$

Ans: (a)

(b) _____

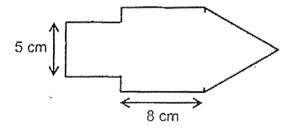
Find the value of $\frac{7}{4} + 2\frac{5}{6}$ as a mixed number in its simplest form.

Ans: ____

23	Water from a tap fills an empty tank at 600 ml per minute. At this rate,
	how much water is in the tank after 25 minutes? Express your answer in
	litrae

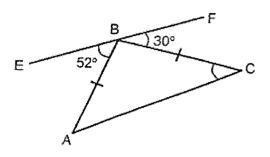
Ans:	ę
91 4 mm	 *

24 The figure is made up of 2 squares and 1 equilateral triangle. Find the perimeter of the figure.



Ans:	cm

In the figure below, ABC is an isosceles triangle, EBF is a straight line, ∠ABE = 52° and ∠CBF = 30°. Find ∠BCA.



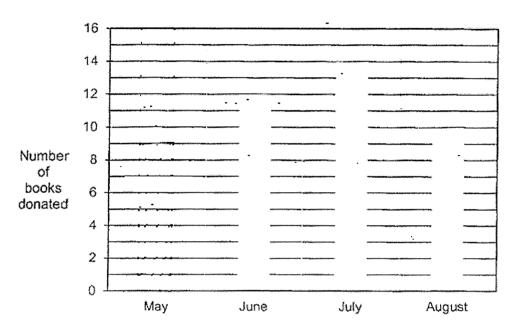
Ans: _____

The average of 2 numbers is 39. The average of another 3 numbers is 44. Find the total of these 5 numbers.

Ans: _____

Use the information below to answer Questions 27 and 28.

The bar graph below shows the number of books donated by a class from May to August. The number of books donated in May was $\frac{1}{5}$ of the total number of books donated during the 4 months.



27 Draw the bar for May in the graph.

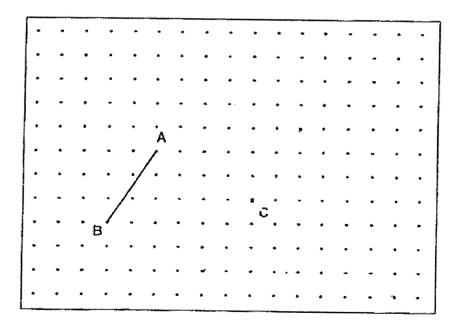
What fraction of the total number of books was donated in June?

Ans: ____

In a sale, each cup is sold at \$3a and each plate is sold at \$(a + 4). Find the total price of 3 cups and 2 plates in terms of a. Express your answer in the simplest form.

۸	'n	S :	¢	· !
1	1	٥.	3	

- 30 Using the grid and the given line AB, draw another straight line with the following characteristics:
 - parallel to AB
 - twice the length of AB
 - passes through C which is marked by X on the grid as shown



END OF PAPER



RED SWASTIKA SCHOOL

2020 PRELIMINARY ASSESSMENT

MATHEMATICS PAPER 2

Name:	. ()
Class : Primary 6 /		
Date : 20 Aug 2020		
17 Questions 55 Marks Duration of Paper 2: 1 hour 30 minutes		

Note:

- 1. Do not open this Booklet until you are told to do so.
- 2. Read carefully the instructions given at the beginning of each part of the Booklet.
- 3. Do not waste time. If a question is difficult for you, go on to the next one.
- 4. Check your answers thoroughly and make sure you attempt every question.
- 5. In this paper, you should have the following:
 - (a) Page 1 to Page 13
 - (b) Questions 1 to 17
- 6. You are allowed to use a calculator.

MARKS

	OBTAINED	POSSIBLE
PAPER 1		45
PAPER 2		55
TOTAL		100

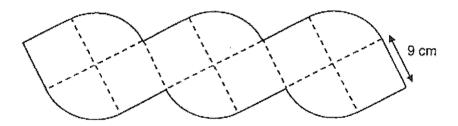
Questions 1 to 5 carry 2 marks each. Show your workings clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

1 The total of 2 numbers is 43.2 and their difference is 12.8. Find the smaller number.

Ans: _____

The figure is made up similar quadrants and squares. Find the perimeter of the figure correct to 1 decimal place. Take $\pi = 3.14$.



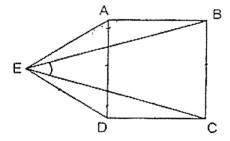
Ans: _____cm

3 Study the algebraic expressions that follow a pattern below. Find the value of w if Number 6 is 65.

Number 1 Number 2 Number 3 Number 6 13w + 12 11w + 10 9w + 8 ?

A	
Ans:	

4. In the figure below, ABCD is a square and ADE is an equilateral triangle. Find ∠BEC.



Ans: _____

- Devi had to fill as many jugs as possible with 10 ℓ of water. The capacity of each jug is $\frac{9}{16}$ ℓ .
 - (a) What was the most number of jugs that could be completely filled with water?
 - (b) How much of the water was left over? Give your answer in litres.

Ans: (a)	
(h)	ŷ

For Questions 6 to 17, show your workings clearly in the space below 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)

6	At a shop, Alice paid \$15.60 for a chocolate cake and 5 curry puffs. Be	'n
	paid \$26.45 for a chocolate cake and 12 curry puffs. Find the cost of chocolate cake.	1

·

Ans: _____[3]

- 7 Use all the digits 6, 2, 3 to form the number for each box below.
 - (a) ? minutes are smaller than 4 hours.
 - (b) ? minutes are closest to 5 hours.

Ans: (a) _____[1]

(b) [2]

A baker had a total of 425 tarts and cupcakes. After selling an equal number of both types, he had $\frac{1}{3}$ of the tarts and $\frac{1}{4}$ of the cupcakes left. What was the total number of tarts and cupcakes left?

Ans: _____[3]

9 Tim had some books for sale. He sold some books on Saturday. On Sunday, he sold $\frac{1}{4}$ of the remainder. After the sale, the ratio of number of books sold to the number of books left was 8 : 5. What was ratio of the number of books sold on Saturday to the number of books sold on Sunday?

Ans: _____[3]

Membership Promotion Coupon



Buy first laptop at 20% discount



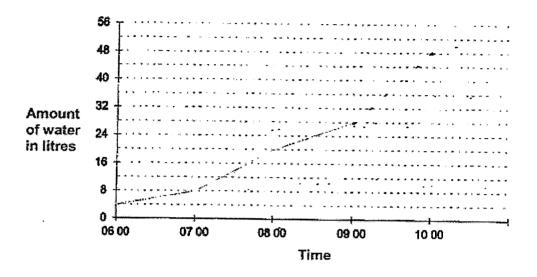
Buy second similar laptop at 40% discount

For Non-members, 15% discount for each laptop.

Using the membership promotion coupon, Sue paid \$2940 for 2 similar laptops. How much would she have paid for 1 such laptop if she was not a member?

\ns:	And the second s	[3]

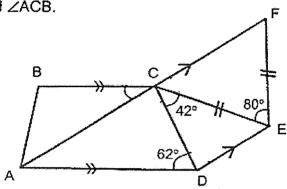
A tank was partially filled with water at first. A tap was turned on from 06 00, and the tank was completely filled to 48 litres at 10 00. A line graph, showing the volume of water in the tank at regular intervals of time was drawn up as shown below. However, the line graph only shows the readings from 06 00 to 09 00.



- (a) Complete the line graph from the 09 00 to 10 00 with a straight line.
 [1]
- (b) What fraction of the tank was filled with water at first? Express your answer as a fraction in its simplest form.
- (c) What was the percentage increase in the amount of water in the tank from 08 00 to 09 00?

Ans:	(b)	[2]	
	(c)	[2]	

- In the figure below, ABCD and AFED are trapeziums, CE = EF, ∠ADC = 62°, ∠DCE = 42° and ∠CEF = 80°.
 - (a) Find ∠ACD.
 - (b) Find ∠ACB.



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

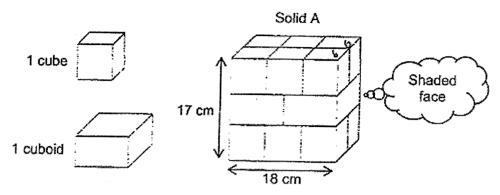
(c) Peter claims that CD is perpendicular to DE.
Do you agree with Peter? Tick Yes or No.
Name the angle that can be used to check for the answer.

[1]

☐ Yes. ☐ No.

Check ∠ ____

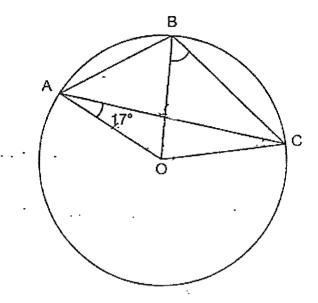
Solid A is glued together using 2 similar cuboids and 12 identical cubes as shown.



- (a) Find the total area of the shaded face as shown.
- (b) Find the volume of 1 cuboid.

Ans: (a)	2	1	
----------	---	---	--

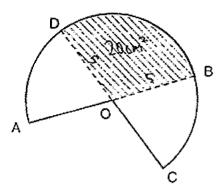
14 In the figure below, O is the centre of the circle. OAC, OAB and OBC are triangles, AB = AO and ∠OAC = 17°.



- (a) Name an equilateral triangle in the given figure.
- (b) Find ∠OBC.

3

The figure is formed by 2 identical semicircles overlapping each other. The radius of each semicircle is 5 cm. O is the centre of both semicircles. AOB and COD are the diameters. The area of the shaded part OBD is 20 cm² and the perimeter of the shaded part OBD is 18 cm.



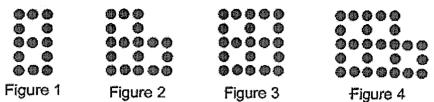
- (a) Using the calculator value of π , find the area of the figure. Correct your answer to 2 decimal places.
- (b) Using $\pi = \frac{22}{7}$, find the perimeter of the figure. Give your answer as a mixed number in the simplest form.

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

- At first, Ben had some red, blue and green marbles. During a game, he removed 54 red marbles, gave away 40% of the blue marbles and increased the green marbles by 25%. After the game, the ratio of the number of red marbles to the number of blue marbles to the number of green marbles was 3:1:5. The total number of marbles he had before and after the game was the same.
 - (a) What fraction of the marbles were red at first?
 - (b) How many green marbles had he increased during the game?

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

17 Farid used circles to form figures that follow a pattern. The first 4 figures are shown below.



(a) The table below shows the number of circles used for each figure. Complete the table for Figure 5 and Figure 6.

Figure Number 1 2 3 4	Number of circles used				
1	13				
2	18				
3	21				
4	26				
5					
6	3				

(b) What is the difference in the number of circles Farid would use for Figure 10 and Figure 12?

(c) How many circles would he use for Figure 41?

Ans:	(b)	And the second s	[2]	
	(c)		[2]	

END OF PAPER

[1]

SCHOOL:

RED SWASTIKA PRIMARY SCHOOL

LEVEL :

PRIMARY 6

SUBJECT: MATH

TERM :

2020 PRELIM

PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15		
1 4		2	2	3		

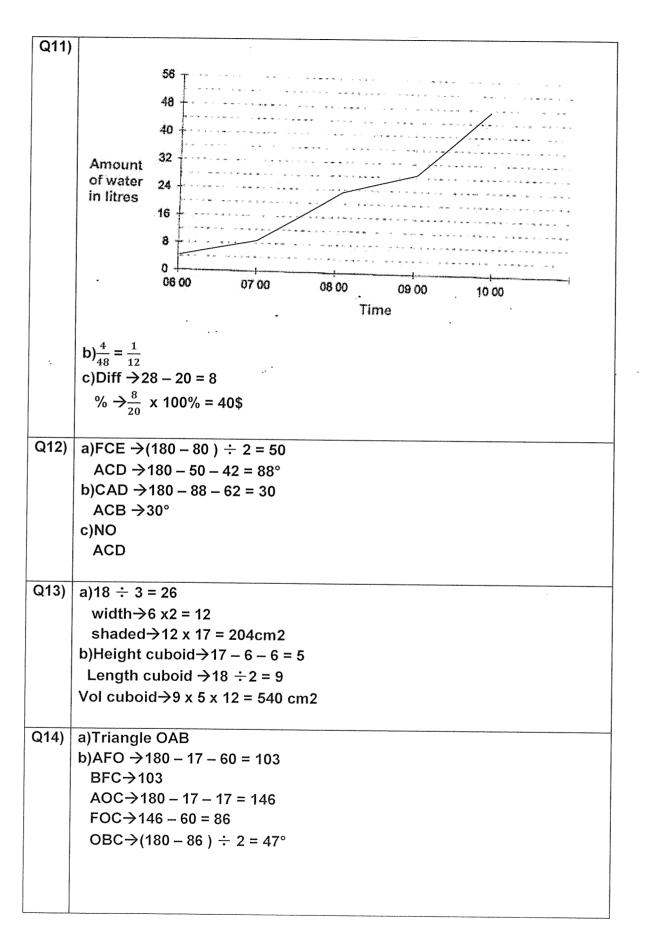
PAPER 1 BOOKLET B

040	FO. 0. 40. FOO. 0.
Q16)	$58 \times 6 \times 10 = 580 \times 6$
	= 3480
Q17)	131°
Q18)	Value \$2 →2 x 4 = \$8
	\cdot
	Value \$4 → 5 x 5 = \$25
	10 + 25 + 8 = 35 + 8 = \$43
Q19)	• .
Q20)	5min→3 x 2 = 6
	Sets of 5min \rightarrow 90 \div 6 = 15
	Total →15 x 5 = 75 min

	The state of the s
Q21)	a)8 x 4 \div 2 – 1 = 16 – 1 = 15
	b)20 - (3+4x2) = 20 - 1 (3+8)
	= 20 - 11 = 9
Q22)	. 7
QLL)	$4\frac{7}{12}$
Q23)	600 x 25 = 15000
	15000ml = 15ℓ
Q24)	Perimeter→8 + 8 + 8 + 5 + 5 + 5 + 3
ζ=.,	= (5x8)+5+5
	= 40 + 10 = 50cm
	- 40 + 10 = 50cm
2005	·
Q25)	180 - 52 - 30 = 98
	180 – 98 = 82
	82 ÷ 2 = 41°
Q26)	39 x 2 = 78
	44 x 3 = 132
	Total→132 + 78 = 210
Q27)	12 + 14 + 10 = 36
,	36 ÷ 4 = 19
	00 1 4 - 10
Q28)	4 >
Q20)	$\frac{4}{5} \rightarrow 12 + 14 + 10 = 36$
	$\frac{5}{5} \rightarrow \frac{36}{4} \times 5 = 45$
	• .
	$\frac{12}{45} = \frac{4}{15}$
Q29)	3 cups→3a x 3 =9a
	2 plates→(a+4)x2 = 2a+8
	Total \Rightarrow 9a + 2a + 8 = \$(11a + 8)
Q30)	
f	The control of the co
	A second

PAPER 2

Q1)	Small number x 2 \rightarrow 43.2 – 12.8 = 30.4 Small number \rightarrow 30.4 \div 2 = 15.2
	3man number 730.4 ÷ 2 = 15.2
Q2)	156.8 cm
Q3)	3w + 2 = 65
	$3w \rightarrow 65 - 2 = 63$ $1w \rightarrow 63 \div 3 = 21$
Q4)	AEB \rightarrow (180 - 90 - 60) \div 2 = 15 BEC \rightarrow 60 - 15 - 15 = 30°
	BEC 760 - 15 - 15 - 30
Q5)	a)17
•	$b)\frac{7}{16}$
Q6)	Curry puffs →26.45 – 15.60 = 10.85
	→10.85÷ 7 = 1.55
	5 curry puff \rightarrow 1.55 x 5 = 7.75 Choc \rightarrow 15.6 – 7.75 = \$7.85
Q7)	a)236
	b)326
Q8)	125
00)	24
Q9)	Sold (both days) \rightarrow ($^{3}/_{4}$ R \div 5) x 8 = $\frac{24}{20}$ R
	Sold sat $\to \frac{24}{20}$ R - $\frac{19}{4}$ R = $\frac{19}{20}$ R
	$\frac{1}{4} R = \frac{5}{20} R$
	ANS: 19 : 5
Q10)	100% →4200 ÷ 2 = 2100
Q 10)	100 % 74200 + 2 - 2100
	$85 \% \rightarrow \frac{2100}{100} \times 85 = \1785
	100



Q15)	a)58.54cm2 b)BD \rightarrow 18 - 5 - 5 = 8 2 x $\frac{1}{2}$ x $\frac{22}{7}$ x 10 = $33\frac{3}{7}$ cm
Q16)	a) ¹⁰ / ₂₇ b)162
Q17)	a) $26 + 3 = 29$ 29 + 5 = 34 b) $3 + 5 = 8$ c) $41 \div 2 = 20 \text{ R } 0.5$ $(20 \times 5) + (20 \times 3) + 13 = 173$

	KYS	1	AS	1	TMY	1	SL	/ CT
Index No.								

SINGAPORE CHINESE GIRLS' SCHOOL

PRELIMINARY EXAMINATION 2020

PRIMARY 6

MATHEMATICS PAPER 1

BOOKLET A

Name:	(١
	`	,

Class: Primary 6 SY / C / G / SE / P

18 August 2020

		Marks attained	Max Mark
Paper 1	Booklet A		20
	Booklet B		25
Paper 2			55
Total Marks			100

Parent's Signature						
philipping and a second se						

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.

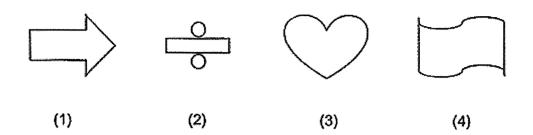
Booklet A

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)

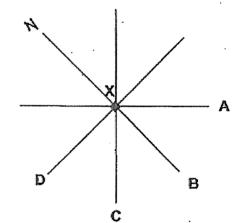
- 1. What does the value of the digit 2 in 5.629 stand for?
 - (1) 2 ones
 - (2) 2 tenths
 - (3) 2 hundredths
 - (4) 2 thousandths
- 2. 3817 cm = ____ m
 - (1) 0.3817 m
 - (2) 3.817 m
 - (3) 38.17 m
 - (4) 381.7 m
- 3. Which one of the following would be the most likely mass of a watermelon?
 - (1) 5 g
 - (2) 5 kg
 - (3) 50 g
 - (4) 50 kg
- 4. What is the value of $5k \frac{3k}{2}$ when k = 6?
 - (1) 30
 - (2) 21
 - (3) 12
 - (4) 9

- 5. Which of the following is the same as $6 + \frac{9}{15}$?
 - (1) $6 \times \frac{15}{9}$
 - (2) $6 \times \frac{9}{15}$
 - (3) $\frac{1}{6} \times \frac{9}{15}$
 - (4) $\frac{1}{6} \times \frac{15}{9}$
- 6. Which of the following fractions is larger than $\frac{1}{5}$?
 - (1) $\frac{3}{10}$
 - (2) $\frac{2}{11}$
 - (3) $\frac{3}{15}$
 - (4) $\frac{2}{30}$
- 7. The price of a mobile phone is \$200 excluding GST. GST is 7%.
 What is the price of the mobile phone including GST?
 - (1) \$14
 - (2) \$186
 - (3) \$207
 - (4) \$214

8. Which of the following figures is not symmetrical?



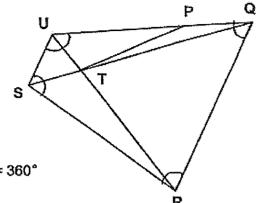
- 9. Muthu is at Point X facing North. He turns 135° anti-clockwise. Which direction is he facing now?
 - (1) A
 - (2) B
 - (3) C
 - (4) D





- 10. Express 143 min in hours and minutes.
 - (1) 1 h 23 min
 - (2) 1 h 43 min
 - (3) 2 h 23 min
 - (4) 2 h 43 min

11. In the figure, UTR and QTS are straight lines. SUQR is a trapezium.
Which of the following statements is false?



- (1) $\angle PTU = \angle RTS Fa/58$
- (2) ∠UTS = ∠QTR
- (3) ∠SUQ + ∠UQR = 180°
- (4) $\angle QRS + \angle RSU + \angle SUQ + \angle UQR = 360^{\circ}$

- 12. Mr Raju puts 40 apples into a carton. There are 24 red ones and the rest are green. Find the ratio of the number of green apples to that of the total number of red and green apples.
 - (1) 2:3
 - (2) 2:5
 - (3) 3:2
 - (4) 3:5
- 13. Jean bought a speaker and a laptop. She spent \$2000 altogether. The speaker is 4% of the total cost. What is the cost of the laptop?
 - (1) \$80
 - (2) \$96
 - (3) \$1920
 - (4) \$1996

- 14. Tom took a flight from Singapore to London. The journey took 13 h 30 min. He reached London at 12.45 p.m. (Singapore time) on Thursday. At what time and which day did his flight take off from Singapore?
 - (1) 2.15 a.m., Friday
 - (2) 2.15 p.m., Friday
 - (3) 11.15 p.m., Thursday
 - (4) 11.15 p.m., Wednesday
- 15. Jeremy had 7 ℓ of juice. He drank $\frac{1}{2}$ of it and gave $\frac{1}{4}\ell$ to his friend. How much juice had he left?
 - (1) $1\frac{3}{4}$ (
 - (2) $3\frac{1}{4}$ (
 - (3) $6\frac{1}{4}$ (
 - (4) $7\frac{3}{4}$?

(Go on to Booklet B)

	(YS	1	AS	1	TMY	1	SL	/ CT	-
Index No.]		

SINGAPORE CHINESE GIRLS' SCHOOL

PRELIMINARY EXAMINATION 2020

PRIMARY 6

MATHEMATICS PAPER 1

BOOKLET B

Class : Primary 6 SY / C / G / SF / P		18 August 2020
Name :(}	

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.

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. 18:27 = 4:____

Ans: _____

17. What is the value of $408 - 12 \div (2 + 4) \times 4$?

Ans: _____

18. List the common factors of 40 and 45.

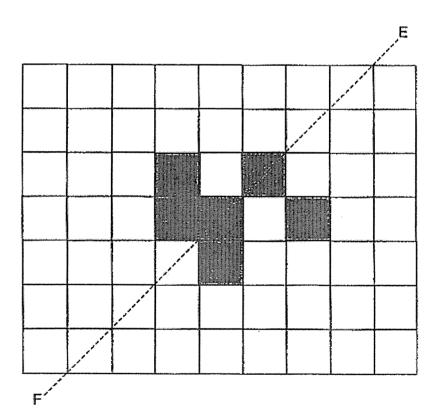
Ans: _____

19. Find the volume of a 4-cm cube.

Do not in this column

Ans:	cm ³
1115.	CHIT

20. In the figure below, dotted line EF is a line of symmetry. Shade 2 more squares to complete the figure.



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

Use the table below to answer questions 21 and 22.

The table below shows prices of durians and mangoes at a fruit stall.

ltem	Price per kg
Durian	\$ (m + 14)
Mango	\$ <i>m</i>

21. Peter bought 1 kg of durians and 3 kg of mangoes. How much did he spend? Express your answer in terms of m.

Ans:	\$			
M 15.	1.0			

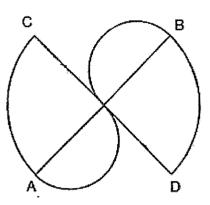
22. Amara spent \$74 on 1 kg of durians and some mangoes.
If m = 6, how many kg of mangoes did he buy?

Ans: _____kg

23. The figure below is made up of 2 identical quadrants and 2 semicircles.

AB = CD = 14 cm. Find the perimeter of the following figure. (Take
$$\pi = \frac{22}{7}$$
)

Do not in this column



Ans:			cm

- 24. Mr Wong bought some green balloons and yellow balloons for his class.

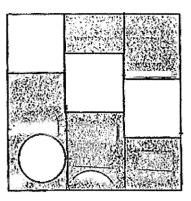
 Each of his students used a green balloon and a yellow balloon.
 - $\frac{2}{5}$ of the green balloons and $\frac{3}{4}$ of the yellow balloons were left.

What fraction of the total number of balloons did his class use?

25.	Sammy is twice the age of Tim but half that of Ray. Given that Ray is 24 years old, what is their average age?	Do not write in this column
	Ans:	
26.	A bookshelf can withstand the weight of either 45 small books or 30 big books. Given that it already contained 24 small books and 8 big books, how many more big books can be place on the bookshelf?	
		AND A CALL DESIGNATION OF THE PARTY OF THE P

Ans:

27. The figure is made up of 1 big square, 3 identical small squares and 1 circle.
The circle is half the size of a small square.
What fraction of the figure is shaded?



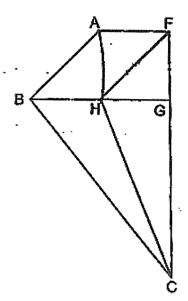
Ans:	
MID.	

28. Alyssa cut a piece of ribbon into 2 equal pieces. The total length of $\frac{1}{4}$ of the first piece, $\frac{2}{3}$ of the second piece is 110 cm. What is the original length of the ribbon?

Ans:	cm	
4115.	UH	i

29. The figure below is made up of a parallelogram and triangles.
BH = HG = GF. CG is 3 times the length of GF.
BG and FC are straight lines. Given that FG = 6 cm,
find the area of the figure.

Do not write in this column



Ans: cm²

30. Mr Tan and Mr Nordin had some fruits. 40% of Mr Nordin's fruits were oranges and the rest were apples. 80% of Mr Tan's fruits were oranges and the rest were apples.

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
Mr Nordin had more apples than oranges.		·	
Mr Tan had 80 oranges.			
Mr Tan had more oranges than Mr Nordin.			

	KYS	/(AS)/	TMY	/ SL	/ CT
Index No.				*******	

SINGAPORE CHINESE GIRLS' SCHOOL

PRELIMINARY EXAMINATION 2020

PRIMARY 6

MATHEMATICS

PAPER 2

Name:	i	r 1	þ
		. ,	7

Class: Primary 6 SY / C / G / SE / P

18 August 2020

	Mark	Max Mark	
Paper 2		55	

Parent's	Signature	
		- 1

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.

Amy and Bala have 275 beads. If Amy gives Bala 20 beads, Bala will have 10 times as many beads as Amy. How many beads does Amy have?

Ans:

A farmer had some apples. She gave 1200 apples to her friend and $\frac{3}{8}$ of the remainder to her aunt. She had 150 apples left. How many apples did she have at first?

Ans:

3. A machine takes $\frac{1}{6}$ of a minute to assemble a phone. How many phones can it assemble in 5 minutes?

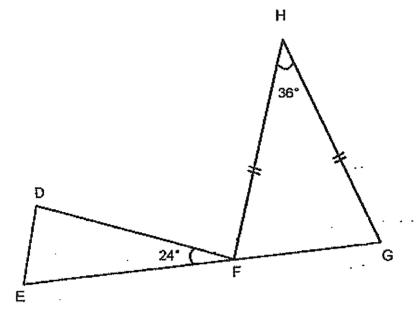
Ans:

4. Allison's watch is programmed to ring every 5 minutes. Her alarm clock is programmed to ring every 8 minutes. At what time will the 2 devices ring together again given that the last time they rang together was at 10 a.m.?

Ans: _____

In the figure below, FHG is an isosceles triangle. EFG is a straight line.
 Find ∠DFH.

Do not write in this column



Ans: ______

For questions 6 to 17, show your working clearly in the space below each question and write your answers in the spaces provided. The number of marks awarded is shown in brackets [] at the end of each question or part-question. 6. Tiffany bought some chocolates and sweets. The number of sweets is 3 times the number of chocolates. After giving away 10 sweets and 10 chocolates, the number of sweets is 5 times the number of chocolates. How many chocolates did she buy? Mr Lim has big pieces of wood measuring 12.5 m each. He cuts the wood into 7. smaller pieces measuring 30 cm each. He needs 290 small pieces of wood to build a fence. What is the least number of big pieces of wood he needs to build the fence?

Do not write this column

8. Sandra has some lemon and peppermint sweets in a container. $\frac{3}{5}$ of the sweets are peppermint. After she adds in another 30 peppermint sweets, $\frac{3}{4}$ of the sweets are peppermint. How many sweets does she have in the container in the end?

Ans: [3]

9. 200 160 Number of pens sold 120 80 40 Ö Feb Jan Mar May Jul Apr Jun Aug Months

The graph above shows the number of pens sold in a shop.

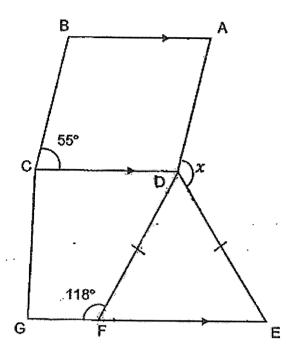
- a) The greatest increase in sales happened during which one-month period?
- b) Find the percentage decrease from June to July.

Ans: a)	to	[1]
b)	[2]	

10.	Painter A takes 2 h to paint a room. Painter B takes 3 h to paint the same room. How long will they take if they were to paint the room together?	Do not write this column
	-	

	Ans:[3]	
	t d	1

11. ABCD is a rhombus. DCGF is a trapezium. DEF is an isosceles triangle. Find $\angle x$.



Ans: _____[4]

12.	A bag of kiwis was shared among 3 children, Xavier, Yanny and Zara. Xavier received 40% of the kiwis plus 2 more. Yanny received 50% of the remainder plus 8 more. If Zara received 54 kiwis, how many kiwis were in the bag at first?	Do not write this column
	-	
		•
	• •	
	Ans:[4]	

13. Tables and chairs are arranged in the figures below.

000

Figure 1



... Figure 2

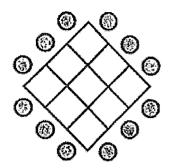


Figure 3

a) Complete the table below. .

Figure	Number of tables . (squares)	Number of chairs (circles)	Total
1	1	4 .	5
2	4	8	12
3	9	12	21
4			

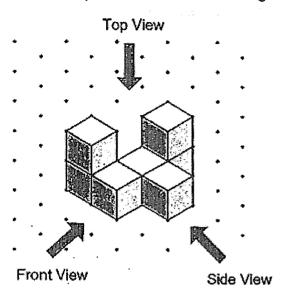
[3]

b) What is the total number of tables and chairs needed to form Figure 39?

Ans: b) _____[2]

´ 5

14. The solid below is made up of 1-cm cubes stacked together.



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

Top View Front View

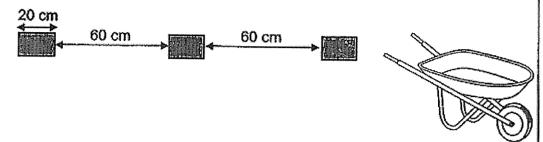
b) From the diagram as shown above, how many more 1-cm cubes are needed to form a 5-cm cube?

Ans: _____[2]

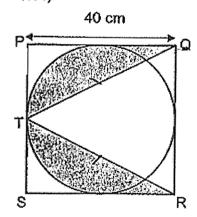
[2]

15 a) A part of the wheel of a wheelbarrow was coated with paint as shown in the diagram. The diagram below showed the marking made by the wheel when it moved through a distance.

Find the circumference of the wheel.



15 b) PQRS is a square. T is the mid-point of PS. TQ = TR. Find the area of the shaded parts. (Take π = 3.14)



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

A plate of chicken rice cost \$4 while a plate of spaghetti cost \$7. Miss Tan ordered plates of chicken rice and spaghetti in the ratio 2 : 5 for her pupils in a camp. She paid \$258 in total.

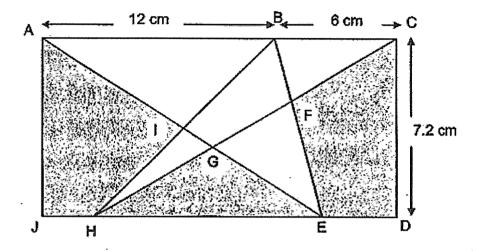
Do not write this column

- a) How many plates of chicken rice did she order?
- b) How much more money did she spend on spaghetti than chicken rice?

Ans: a	a)	Control of the Contro	[2]	
--------	----	--	-----	--

b)	[2	•
	 *	ж

17. The figure below is made up of a rectangle and triangles. The area of the quadrilateral BFGI is 21 cm². Find the area of the shaded part.



Ans: _____[4]

End of Paper

SCHOOL : SCGS PRIMARY SCHOOL

LEVEL : PRIMARY 5

SUBJECT: MATH

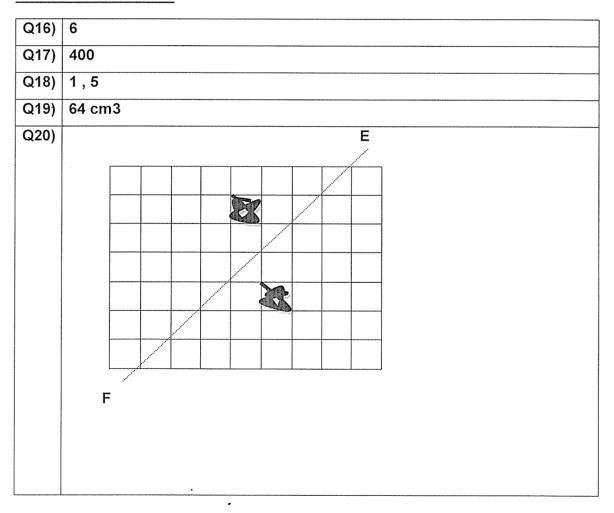
TERM: 2020 PRELIM

PAPER 1 BOOKLET A

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

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

PAPER 1 BOOKLET B



004)	M
Q21)	
	Durian →\$(m + 14)
	Total →\$3m + \$(m + 14)
	= \$ (4m + 14)
Q22)	\$74 - \$20 = \$54
	$$54 \div $6 = 9kg$
Q23)	Circumference $\Rightarrow \frac{1}{4} \times \frac{22}{7} \times \frac{14}{1} = 11$ cm
-	
	22 7
	Circumference $\rightarrow \frac{1}{2} \times \frac{22}{7} \times \frac{7}{1} = 11$
•	
	11 x 4 = 44
•	7 x 2 = 14
	44 + 14 = 58
	· ·
Q24)	$\frac{3}{5} + \frac{1}{4}$
	$=\frac{3}{5}=\frac{3}{12}$
	$=\frac{6}{17}$
Q25)	4u →24
	1u→24 ÷4 = 6
	$7u \rightarrow 6 \times 7 = 42$
	Average→ 42 ÷ 3 = 14
Q26)	6
,	
Q27)	7
	18
Q28)	1st piece $\rightarrow \frac{1}{4} = \frac{3}{12}$
	$2^{\text{nd}} \text{ piece} \rightarrow \frac{2}{3} = \frac{8}{12}$
	3u + 8u = 11u
	11u→110
	$24u \rightarrow \frac{110}{11} \times 24 = 240 \text{ cm}$
Q29)	A→6 x 6 = 36
,	$D \rightarrow 6 \times 6 \times \frac{1}{2} = 18$
	C+B \rightarrow 12 x 18 x ½ = 108
	$A+D+C+B\rightarrow 36 + 18 + 108 = 162 \text{ cm}2$

Q30)				
				Not
		True	False	possible
				to tell
	Mr Nordin had more apples than oranges	4		
	Mr Tan had 80 oranges			4
	Mr Tan had more oranges than Mr Nordin	·		4

PAPER 2

04)	101 4 14
Q1)	10u + 1u = 11u
	$1u \rightarrow 275 \div 11 = 25$
	25 + 20 = 45
Q2)	5u→150
	$1u \rightarrow 150 \div 5 = 30$
	$8u \rightarrow 30 \times 8 = 240$
	At first→240 + 1200 = 1440
Q3)	10 seconds → 1 phone
	60 seconds → 6 phones
	1min →6 phones
	$5 \text{ mins} \rightarrow 6 \times 5 = 30$
Q4)	10 40 a.m.
Q5)	180° – 36° = 144°
,	$144^{\circ} \div 2 = 72^{\circ}$
	180° - 72° - 24° = 84°
O6)	1u →10
Q6)	$2u \rightarrow 10 \times 2 = 20$
	2u-7 10 X 2 - 20
Q7)	12.5m = 1250cm
	1250 ÷ 30 ≈ 41
	290÷ 41 ≈ 8

Q8)	3u→30
40)	$1u \rightarrow 30 \div 3 = 10$
	$8u \to 10 \times 8 = 80$
-00	
Q9)	a)April to May
	$b)\frac{60}{180} \times 100\% = 33\frac{1}{3}\%$
	100
Q10)	5 rooms→6 hours
	1 room→1.2 hours
	1.2 hours = 1h 12 mins
Q11)	360° – 55° – 55° = 250°
,	250° ÷2 = 125°
	180° – 118° = 62°
	180° – 62° – 62° = 56°
	$\angle X \rightarrow 360^{\circ} - 62^{\circ} - 125^{\circ} - 56^{\circ} = 117^{\circ}$
040)	F00/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Q12)	50% →8 + 54 = 62
	100% →62 x 2 = 124
	Total
	60% →124 + 2 = 126
	$100\% \to \frac{126}{60} \times 100 = 210$
Q13)	a)16 , 16 , 32
	b)39 x 39 = 1521
	circles →39 x 4 = 156
	Total →1521 + 156 = 1677
Q14)	a)
	• • • • • • • • • • • • • • •
	b)5 v 5 v 5 - 125
	b)5 x 5 x 5 = 125 125 - 7 = 118
	120 - 7 - 110

Q15) a)20 cm + 60 cm = 80 cm b)Area of A \rightarrow ½ x 40cm x 40cm = 800cm2 square→40cm x 40cm = 1600cm2 circle→3.14 x 20cm x 20cm = 1256cm2 1600 cm 2 - 1256 cm 2 = 344 cm 2 $344 \text{cm} 2 \div 4 = 86 \text{cm} 2$ Shaded \rightarrow 1600cm2 - 86cm2 - 86cm2 - 800 cm2 = 628cm2 Q16) Chicken: spaghetti 2 : 5 $1set \rightarrow (2x4) + (5x7) = 43$ No. of sets \rightarrow 258 \div 43 = 6 Plates of chicken rice \rightarrow 6x 2 = 12 Plates of spaghetti \rightarrow 6 x 5 = 30 Diff \rightarrow (30x7) – (12x4)= 162 ··· Area ACDJ→18 x 7.2 = 129.6 Q17) Area DABC $\rightarrow \frac{1}{2}$ x 12 x 7.2 = 43.2 Area ABCH \rightarrow ½ x 6 x 7.2 = 21.6 Unshaded \rightarrow 43.2 + 21.6 - 21 = 43.8 Shaded \rightarrow 129.6 - 43.8 = 85.8cm2

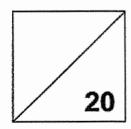


2020 PRIMARY 6 - PRELIMINARY EXAMINATION

Name:	()	Date: 20 August 2020
Class: Primary 6 ()		Time: <u>8.00 a.m 9.00 a.m.</u>

Paper 1 comprises 2 booklets, A and B.

PAPER 1 (BOOKLET A)



INSTRUCTIONS TO CANDIDATES

- 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. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 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 oval (1, 2, 3 or 4) on the Optical Answer Sheet.

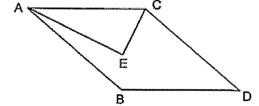
(20 marks)

- Farmer Brown harvested 109 436 oranges last year.
 Express this number to the nearest hundred thousand.
 - (1) 100 000
 - (2) 109 000
 - (3) 110 000
 - (4) 109 400
- 2. $20 + \frac{7}{10} + \frac{7}{1000} =$ ______.
 - (1) 20.007
 - (2) 20.077
 - (3) 20.707
 - (4) 20.770
- 3. There are 70 adults and children in a hall. 56 are adults. What is the ratio of the number of children to the total number of people in the hall?
 - (1) 1:4
 - (2) 1:5
 - (3) 4:1
 - (4) 4:5

4. 3:9=**4**:□

What is the missing number in the box?

- (1) 10
- (2) 12
- (3) 27
- (4) 36
- 5. Which two lines in the figure are perpendicular to each other?
 - (1) AC and CD
 - (2) AB and CD
 - (3) AE and CE
 - (4) AC and BD



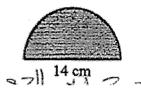
- 6. My teacher paid \$25 for 50 notepads. How much did each notepad cost?
 - (1) 5 cents
 - (2) 2 cents
 - (3) 50 cents
 - (4) 20 cents
- 7. Round each of the numbers to the nearest whole number.

What is the estimated value?

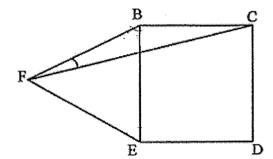
32.6 + 40.4 x 9.51

- (1) 430
- (2) 433
- (3) 700
- (4) 730

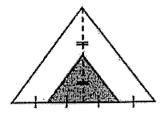
- 8. Find the perimeter of the semicircle. (Take $\pi = \frac{22}{7}$)
 - (1) 22 cm
 - (2) 36 cm
 - (3) 44 cm
 - (4) 58 cm



- In the figure, BCDE is a square and BEF is an equilateral triangle.
 Find ∠BFC.
 - (1) 15°
 - (2) 30°
 - (3) 45°
 - (4) 60°



- 10. The mass of Box A is 6 kg. The total mass of Box B and Box C is also 6 kg.
 What is the average mass of the 3 boxes?
 - (1) 6 kg
 - (2) 2 kg
 - (3) 3 kg
 - (4) 4 kg
- 11. What percentage of the triangle is unshaded?
 - (1) 25%
 - (2) 40%
 - (3) 50%
 - (4) 75%



12. A small square is placed over a large square. The length of each square is a whole number. The area of the large square that is not covered by the small square is 56 cm². What is the perimeter of the large square?

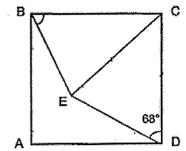


- (2) 40 cm
- (3) 36 cm
- (4) 20 cm



- 13. A wire is cut into 2 pieces. One piece is made into an equilateral triangle of sides y cm long. The other piece is made into a square of sides 8 cm long. What is the length of the wire before it is cut?
 - (1) (y + 8) cm
 - (2) (3y + 64) cm
 - (3) (3y + 32) cm
 - (4) (4y + 24) cm
- 14. A supermarket gave a discount of \$3 for every \$40 spent.
 Mr Lim bought some groceries and paid \$119.
 What was the price of the groceries before the discount?
 - (1) \$125
 - (2) \$128
 - (3) \$141
 - (4) \$156

- 15. In the figure, ABCD is a square, CE = CD and \angle EDC = 68°. Find \angle CBE.
 - (1) 44°
 - (2) 46°
 - (3) 67°
 - (4) 68°



End of Booklet A Go on to Booklet B

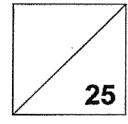


2020 PRIMARY 6 - PRELIMINARY EXAMINATION

Name:()	Date: 20 August 2020
Class: Primary 6 ()		Time: <u>8.00 a.m 9.00 a.m.</u>
Parent's Signature:		

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS PAPER 1 (BOOKLET B)



INSTRUCTIONS TO CANDIDATES

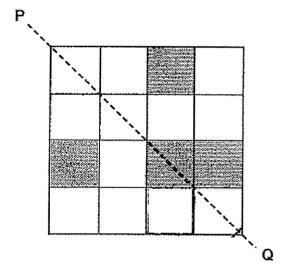
- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Write your answers in this booklet.
- 6. You are not allowed to use a calculator.

	tions 16 to 20 carry 1 mark each. Write uestions which require units, give your Find the value of 40.04 ÷ 8.				
			Ans:		
17.	Janet completed a race in 148 seco				
	How long did Stella take to complete	e the race?			
			Ans:	min	<u> \$</u>
18.	The table below shows the charges	for a cleaning s	ervice.	•	
	First 2 hours	\$100			
	Every additional hour	\$30			
	Mdm Lee paid the shop \$160 to clean her house.				
	How many hours of cleaning did she				
			Ans:		h
		A 200 A	71119. <u> </u>		1*

10. Express 0.5% as a fraction in the simplest form.

Ans:	

In the figure, PQ is the line of symmetry.
 Shade a unit square to make the figure 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)

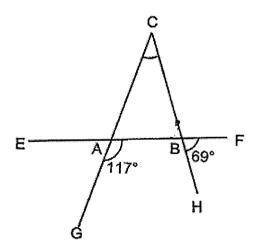
21. Alan is less than 50 years old. His age is a multiple of 5.
Next year, his age is a multiple of 7. How old is he now?

Ans: _____ years old

22. At a party, there were 25% more men than women. There were 180 adults at the party. How many men were there?

Ans:

23. The figure below is not drawn to scale. EF, CG and CH are straight lines. ∠GAB is 117° and ∠FBH is 69°. Find ∠ACB.



Ans:

24.	Sally had 2 boxes of beads. After transferring $\frac{1}{7}$ of the beads from Box A to
	Box B, the ratio of the number of beads in Box A to the number of beads in
	Box B becomes 3:7. What is the ratio of the number of beads in Box A to
	the number of beads in Box B at first?

Ans: _____

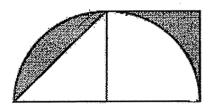
25. 4 people can sit at a square table, one at each side of the table. 6 people can sit at two square tables joined together. How many tables are needed to form a long table for 50 people?

Ans: _____

26. Alan spent $\frac{1}{3}$ of his pocket money on a shirt and 15% of the remainder on a book. What fraction of his allowance did he spend in all?

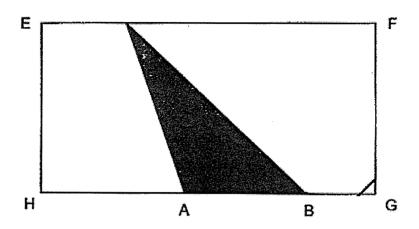
Ans:	-

27. The figure is made up of a square and a semicircle. Find the shaded area.



Ans: _____ cm²

The length of HG is thrice the length of AB.The shaded triangle is 13 cm². Find the area of Rectangle EFGH.



Ans:		cm²
------	--	-----

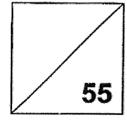
End of Booklet B End of Paper 1



2020 PRIMARY 6 - PRELIMINARY EXAMINATION

Name:	(Date: 20 August 2020
Class: Primary 6 ()		Time: 10.30 a.m 12.00 noon
Parent's Signature:		

MATHEMATICS PAPER 2



INSTRUCTIONS TO CANDIDATES

- 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.

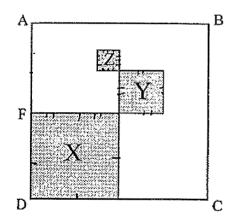
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

1.	What is the missing number in the box?
	140 ÷ 20 x + (180 – 120) = 270.
	Ans:
2.	$\frac{3}{5}$ of Lily's savings is equal to $\frac{7}{12}$ of Janet's savings.
	What is the ratio of Janet's savings to Lily's savings?
	Ans:
3.	At first, Aaron and Ben were facing the same direction. Aaron then turned
	225° clockwise to face North-West while Ben turned 90° clockwise. What direction did Ben face in the end?
	ANUAL direction did pen lace in the end?
	Ans:

4. Alice is 5v years old. Beatty is 18 years younger than Cally, Alice is 2v years older than Beatty.
Find, in terms of v, the total age of the 3 children in 2 years' time.

Ans:	years	old	İ
	 		•

5. X, Y and Z are squares in the big square, ABCD. AF = FD.
The length of Y is half the length of X. The length of Y is twice the length of Z.
What fraction of the figure is shaded?

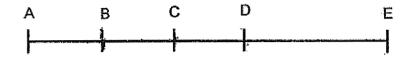


Ans:	

For questions 6 to 17, show your working clearly in the space provided for each question and write your answers in the spaces provided.

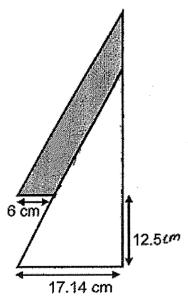
The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

6. The length of AE is 3.3 m. B is the midpoint of AC. C is the midpoint of BD and D is the midpoint of BE. What is the length of DE in centimetres?



Ans:		 [3]	3
	-	 F - 7	

7. The figure below shows two identical right-angled triangles overlapping each other. Find the shaded area.



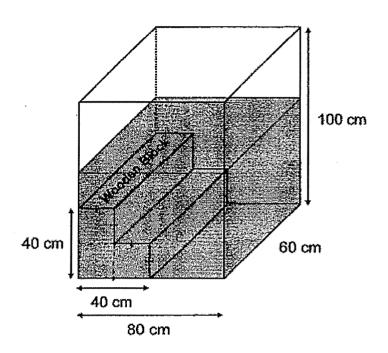
Ans: _____[3]

8.	Denise bought 9 more 26-cent stickers than 32-cent stickers from an online			
	shopping website. She spent a total of \$12.78 on these stickers.			
	How many 26-cent stickers did Denise buy?			
	Ans:[3]			
9.	Mrs Lee went to a sale and paid a total of \$600 for a watch and a necklace. The watch was sold to her at a 20% discount. The total discount given for these 2 items was \$140. Mrs Lee paid \$120 more for the necklace than the watch. What was the original price of the necklace?			
	Ans:[3]			

	Ans:[3
	Friday and 15 each day on Saturday and Sunday. Starting on a Thursday, on which day of the week did Frank complete making all the toy cars?
10	Frank had to make 200 toy cars. He made o toy cars each day from Monday to

11. The figure shows a rectangular aquarium, with no matter at first the state of the filled with water up to $\frac{3}{5}$ its height.

How many *litres* of water is needed?



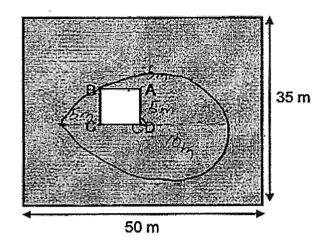
Ans:	 [4]

ABCD is a 5 m by 5 m square house built in a field.

The field is 50 m long and 35 m wide. A dog is tied to Corner D of this house with a rope of length 10 m long.

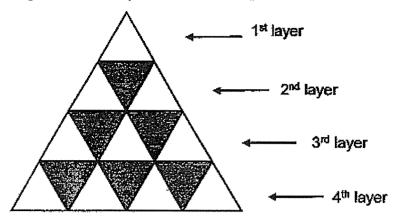
Find the maximum area in the field that this dog can move within.

(Take $\pi = 3.14$)



Ans: ____[4]

13. The figure is made up of identical triangles.



Study the above pattern carefully.

- (a) How many triangles are there in the 10th layer?
- (b) How many shaded triangles are there in the 100th layer?
- (c) In which layer will you find 109 triangles ?

Ans (a)	[1]
(b)	[1]
(c)	Sver: [2]

14. The bar graph shows the number of people in the different age groups.

Number of People by Age Group 700000 600000 500000

100000

15 - 24 years 25 - 34 years 35 - 44 years 45 - 54 years

MAge Group

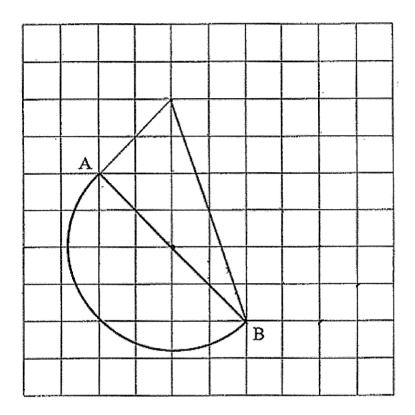
The table below shows the percentage of people in the different age groups who are online food delivery users.

Age Group	15 – 24	25 – 34	35 – 44	45 – 54
	years	years	years	years
Percentage of online food delivery users	18	31	26	17

- (a) Which age group has the most number of people?
- (b) Which age group has the least number of online food delivery users?
- (c) The amount of money spent by online food delivery users aged 15 to 24 years old is \$115 000 000. What is the average amount of money spent by each of the users in this age group?
 Give your answer to the nearest whole number.

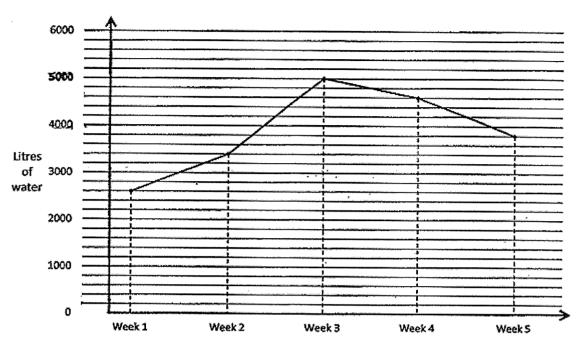
Ans: (a)t	oyears old	[1] [
(b) t	o years old	[1]]
(c)		[2] 0

- 15. A semicircle is drawn on a square grid.
 - (a) Measure and write down the length of the radius of the semicircle.
 - (b) Draw a rectangle ABCD such that the length of BC is equal to the length of the radius.
 - (c) Join BD and measure ∠ABD



(b) Drawing of Rectangle ABCD [2]

16. Mr and Mrs Tan lived with their four children in a 5-room flat.
The line graph showed the total water usage each week for Mr Tan's family.



- (a) There was a sharp increase in water usage from Week _____ to Week ____.
- (b) Find the average water usage for each week.

(c) Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) in the correct column. [2 marks]

	True	False	Not Possible to Tell
(i) The average water usage for each member in a week was 700 litres.			
(ii) The reason that the water usage increased from Week 1 to Week 2 was due to a leak in the water pipe.			

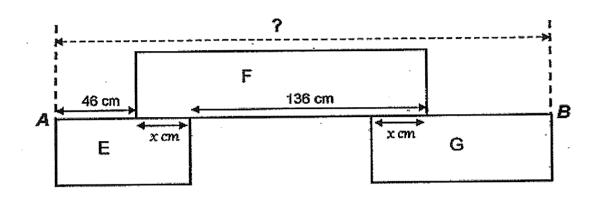
Ans: (a) Week	to	Week	[1]
(b)		***	[2]

17. The figure below is made up of 3 different rectangles with identical breadth.

The length of Rectangle E is $\frac{5}{11}$ the length of Rectangle F.

The length of Rectangle G is $\frac{1}{2}$ of the total length of Rectangle E and Rectangle F.

Find the length AB of the figure.



Ans:		15
MIID.	and a construction	LO.

SCHOOL: TAO NAN PRIMARY SCHOOL

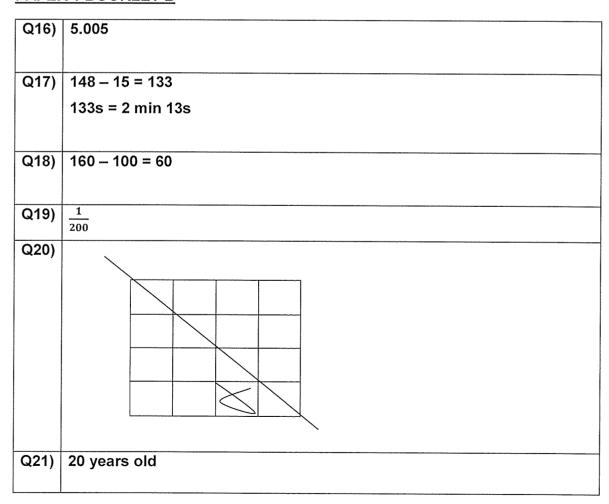
LEVEL: PRIMARY 6
SUBJECT: MATH
TERM: 2020 PRELIM

PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
4	3	3	2	3

PAPER 1 BOOKLET B



Q22)	100
Q23)	48°
Q24)	7:13
Q25)	50 – 2 = 48
	48 ÷ 2 = 24
Q26)	<u>13</u>
	30
Q27)	2 cm2
Q28)	Missing page
Q29)	Missing page
Q30)	78cm2

PAPER 2

270 – 60 = 210
210 ÷ 7 = 30
36:35
South
2 x 3 = 6 5u - 2u = 3u 3u + 18 + 5u + 3u + 6 = (11u + 24)
4units x 2 = 8 units 8 units x 8 units = 64 units2 1 unit x 1 unit = 1units2 2 units x 2 units = 4 units2 4 units x 4units = 16 units2 1 units2 + 1 units2 + 16 units2 = 21 units2 $\frac{21 \text{ units2}}{64 \text{ units2}} = \frac{21}{64}$
1 unit x 3 + 2 units = 5 units 3.3m = 330cm 330 ÷ 5 = 66 66 x 2 = 132cm
11.14 x 12.5 = 139.25 ½ x 6 x 12.5 = 37.5 37.5 + 139.25 = 176.75cm2

Q8)	9 x 26 = 234
	1278 – 234 =1044
	26 + 32 = 58
	1044 ÷58 = 18
	18 + 9 = 27
Q9)	$(600-120) \div 2 = 240$
	$240 \div 80 = 3$
	3 x 100 = 300
	300 – 240 = 60
	140 – 60 = 80
	240 +120 = 360
	360 + 80 = \$440
Q10)	Tuesday
4.5,	. assuu,
Q11)	40÷2 = 20
	$3 \times 20 \times 20 \times 60 = 72000$
	$\frac{3}{5}$ x 100 = 60
	$60 \times 60 \times 80 = 288000$
	288000 - 72000 = 216000
	216000cm3 = 216000ml
	216000ml = 216L
Q12)	¾ x big circle + ½ x small circle
	= 3/4 x 3.14 x 10m x 10m + 1/2 x 3.14 x 5m x 5m
	=274.75m2
Q13)	
	b)99
	$c)(109-1) \div 2 = 54$
	54 + 1 = 55
Q14)	a)45 to 54
	b)15 to 24
	c)100% → 47000
	1% -→47000 ÷ 100 = 470
	18% →470 x 18 = 8460 (deverily)
	\$11500000 ÷ 8400 ≈ \$13593.381
	≈ \$13593
	¥

Q15)	a)2.9cm
Q.10,	4)2100111
	b)
	B
	c)26°
Q16)	a)2 to 3 week
Q 10)	b)2600 + 3400 + 3800 + 4600 + 5000 = 19400
	19400 ÷ 5 = 3880
	13400 . 0 – 3000
Q17)	11 units – 5 units = 6 units
(3,17)	6 untis = 136 – 46 = 90
	1 unit = 90 ÷ 6 = 15
	11units = 15 x 11 = 165
	165 + 46 = 211
	165 - 136 = 29 165 + 29 + 46 = 240
	$240 \div 2 = 120$
	120 – 29 = 91
	46 + 29 + 136 + 91 = 302cm