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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

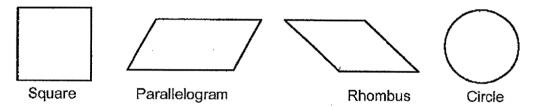
- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 5. The use of calculators is **NOT** allowed.

Name :	(,
Class: 6/)		

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

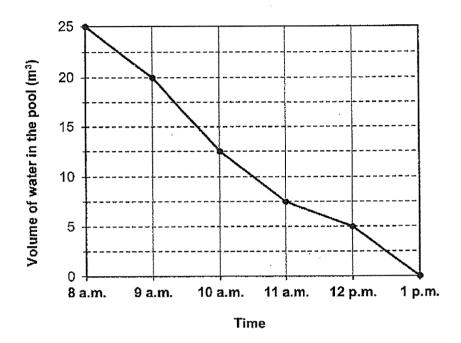
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet (OAS). (20 marks)

- 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	?

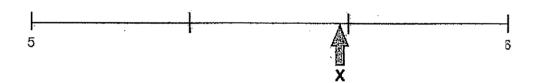
- 1) 205
- 2) 225
- 3) 675
- 4) 705
- 6. Isaac ran round a circular track 3 times for his training. The radius of the track was 56 m. How far did he run? (Take $\pi = \frac{22}{7}$)
 - 1) 168 m
 - 2) 352 m
 - 3) 528 m
 - 4) 1056 m

- 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:

<u>,1</u>	<u>5</u>	<u>10</u>
$1\frac{1}{6}$,	4 '	9

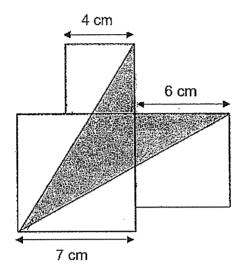
- 1) $1\frac{1}{6}$, $\frac{10}{9}$, $\frac{5}{4}$
- 2) $\frac{5}{4}$, $\frac{10}{9}$, $1\frac{1}{6}$
- 3) $\frac{5}{4}$, $1\frac{1}{6}$, $\frac{10}{9}$
- 4) $\frac{10}{9}$, $1\frac{1}{6}$, $\frac{5}{4}$

- 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.

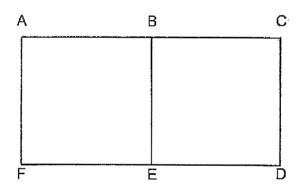


- 1) 31 cm²
- 2) 35 cm²
- 3) 36 cm²
- 4) 48 cm²

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



COMBINED PRELIMINARY EXAMINATION (2020) PRIMARY 6

MATHEMATICS

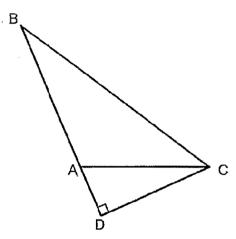
PAPER 1 Booklet B

Friday	21 August 202	20	1 h
INSTRUCTIONS TO PUPILS 1. Do not turn over this page ur 2. Follow all instructions careful 3. Answer all questions. 4. Write your answers in this bo 5. The use of calculators is NO	lly. ooklet.	o do so.	
Name :	()	
Class : 6.()			

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

qu —	uestiońs which requi			***	(5 marks)
	In a sports race, Et The table below sh		•		
	Segn	ients		, Time T	aken (min)
	Swim	ming			39
	Сус	ling			58
	Run	ning			46
	What was the total answer in hours an				hmin
		d minutes.		Answer: _	hmin
	answer in hours an	d minutes.	ghtest to t	Answer: _	hmin

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

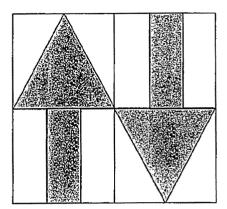
19. What is the fraction exactly between $\frac{2}{7}$ and $\frac{2}{5}$?

Answer:

Combined ACS Prelim 2020

3

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?



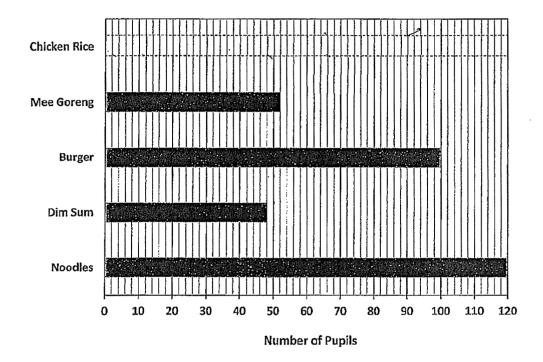
Answer: _____

Combined ACS Prelim 2020

4

answ	ations 21 to 30 carry 2 marks enters in the spaces provided. It ers in the units stated.		•		=
21.	Find the value of 83 $-\frac{74 - 6y}{y}$	- y when	y = 4.		
			Answer: _	······································	
22.	The table below shows the spent on building a model in		hours that	a group of	24 students
	Number of hours spent by each pupil	0	3	4	5
	Number of pupils	2	9	8	5
	What is the average number model each day?	r of hours e	each studer	nt spent on	building the
			Answer		h
Comb	pined ACS Prelim 2020	5		Sub-To	tal :

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.

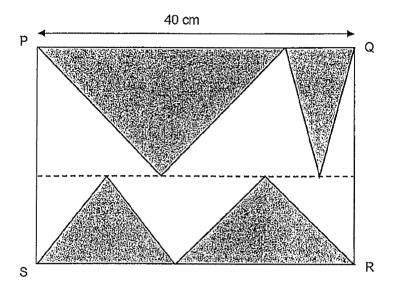


20% of the pupils in the canteen consumed chicken rice. Draw the bar that shows the number of pupils who consumed chicken rice in the graph above.

Combined ACS Prelim 2020

6

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.

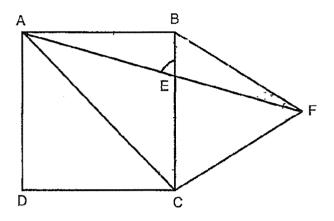


_	
Answer:	cm
ALISVEL.	التجا

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: _____

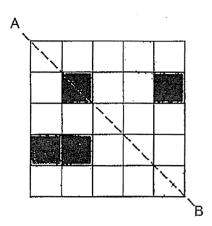
27. There were 150 members in a club in March. This was an increase of 20% when compared to February. In April, only 115 members remained in the club. What is the percentage decrease in the number of members in April compared to February?

Answer: _________%

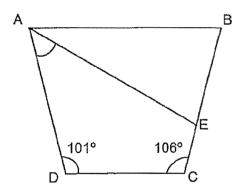
Combined ACS Prelim 2020

8

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:	o

	First 3 muffins Additional muffin				
			Answer:		
	En	d of Pape	r 1		
Combined ACS	S Prelim 2020	10		Sub-Total :	

Kelly has \$38. What is the greatest number of muffins she can buy?

30.

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



COMBINED PRELIMINARY EXAMINATION (2020) PRIMARY 6

MATHEMATICS

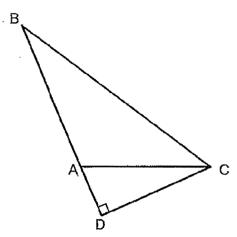
PAPER 1 Booklet B

Friday	21 August 202	20	1 h
INSTRUCTIONS TO PUPILS 1. Do not turn over this page un 2. Follow all instructions careful 3. Answer all questions. 4. Write your answers in this bo 5. The use of calculators is NOT	ly. oklet.	o do so.	
Name :	()	
Class : 6.()			

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

1014	uestions which require			answers in the ers in the	s stated. (5 marks)
16.	In a sports race, Eth The table below sho		-		g and running.
	Segme	ents		Time Take	en (min)
	Swimn	ning		. 39	
	Cycli	ng		58	
	Runn	ing		46	
17.	Arrange the followin	g from the	lightest to th	Answer:	hmin
		6 kg 3	***	4	a
	6.35 kg		5 g 	6 1/3 kg	
		Answer:	(lightest)	6 1/3 kg	.,(heaviest)

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

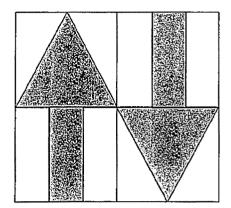
19. What is the fraction exactly between $\frac{2}{7}$ and $\frac{2}{5}$?

Answer: _____

Combined ACS Prelim 2020

3

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: _____

Combined ACS Prelim 2020

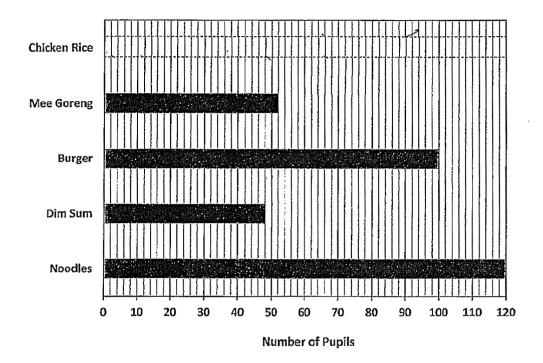
4

answe	tions 21 to 30 carry 2 marks e ers in the spaces provided. ers in the units stated.		-		-
21.	Find the value of 83 - $\frac{74 - 6y}{y}$	-y when	y = 4.		
			Answer: _	:::	**********************
22.	The table below shows the spent on building a model in		hours that	a group of	24 students
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	Number of pupils	2	9	8	5
	What is the average number model each day?	r of hours e	each studer	nt spent on	building the
			Answer		h

5

Combined ACS Prelim 2020

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.

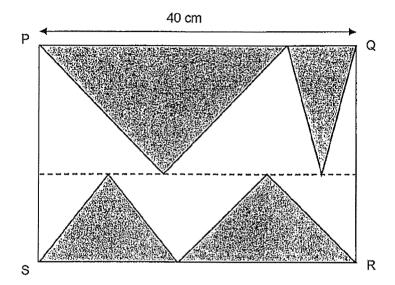


20% of the pupils in the canteen consumed chicken rice. Draw the bar that shows the number of pupils who consumed chicken rice in the graph above.

Combined ACS Prelim 2020

6

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.

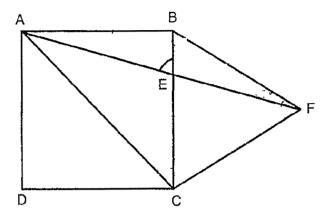


Inswer:	cm

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

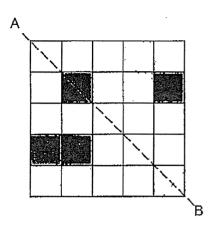
27. There were 150 members in a club in March. This was an increase of 20% when compared to February. In April, only 115 members remained in the club. What is the percentage decrease in the number of members in April compared to February?

Answer: ______%

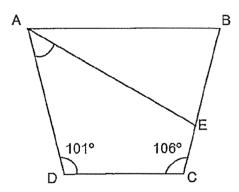
Combined ACS Prelim 2020

8

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.

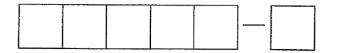


A	•
Answer:	•

Γ			¥		
	First 3 muffins	\$3.20 ea	ch		
	Additional muffin	\$3 each			
<u>L</u>					
			Answer:		-
					•
	End	d of Pape	r 1		
Combined ACS	Prelim 2020	10		Sub-Total :	
					L.,,,,,,

Kelly has \$38. What is the greatest number of muffins she can buy?

30.



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

INSTRUCTIONS TO PUPILS

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

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

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

	vers to the units stated.			(10 marks)
1.	For every box of surgical n \$8 is given to him for every boxes of surgical masks m	10 boxes of surg	jical masks he sel	
			Answer:	
2.	A rectangular swimming po 800 m ³ of water. How muc level is 30 cm from the top	ch more water ha	s to be added so	that the water
			Answer:	m³

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your

3.	During a sale, a department of the American Mr Tan who is a member of additional 8% discount on the he enjoyed?	of the departmen	ntal store was entitled to	o an
			Answer:	%
4.	The average mass of a groumeasured and recorded the one child's mass as 59 kg with Mrs Pang calculated the average How many children were the	mass of these checked the mass of these checked when it should have as 64.	nildren, she wrongly reco eve been 95 kg. As a re	rded
			Answer:	Andrews
Com	bined ACS Prelim 2020	3	Sub-Total :	

 \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.

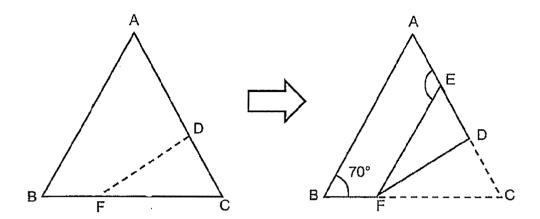
Big Pack	Small Pack
\$ (3n - 2)	\$ (n + 3)

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]
Combined ACS Prelim 2020	5	Sub	o-Total :	

	John wanted to sa Friday and \$16 ea how many days d	ach day	on Sat	urday a	nd Sun					
					Ansı	wer:			[3	3]
3.	The table below s his training sessio	hows the	e time \	Wilson t	ook for	· 4 x 10r	n shut	tle run (during	J
	Attempt	1st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	7
	Time taken (in seconds)	13.1	12.5	11	11.8	12.2	12	11.4	?	
	If he wants to imp should he attain fo				taken b	y 0.3 s∈	econds	s, what	timing	,

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]

Combined ACS Prelim 2020 7 Sul

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?

	F	Answer: (a)	[1]
		(b)	[2]
Combined ACS Prelim 2020	8	Sub-To	tal:

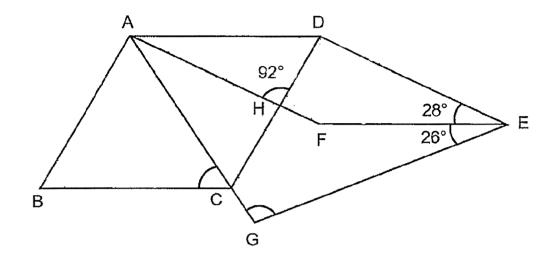
11. Admission tickets for a school musical performance were sold to adults and children at different prices as shown in the table below.

	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?

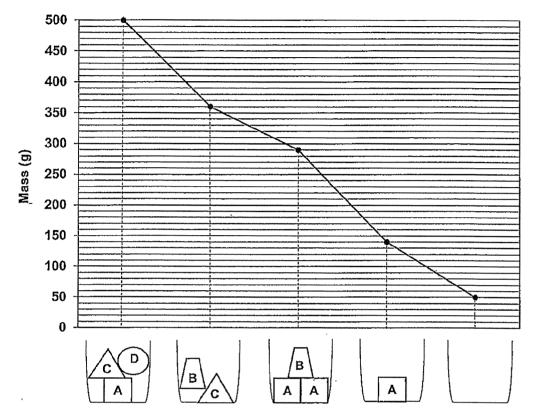
	Α	nswer: (a)	[2]
		(b)	[2]
Combined ACS Prelim 2020	9	Sub-To	tal:

- 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]
	(b)	[3]
10	Sub-Tota	al:

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]

Combined ACS Prelim 2020

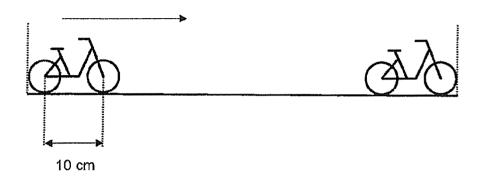
11

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]

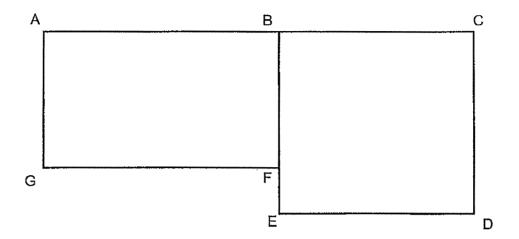
More papers at https://www.testpapersfree.com/

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] 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

Combined ACS Prelim 2020 15 Sub-Total:

SCHOOL: ACS PRIMARY SCHOOL LEVEL: PRIMARY 6

SUBJECT: MATH
TERM: 2020 PRELIM

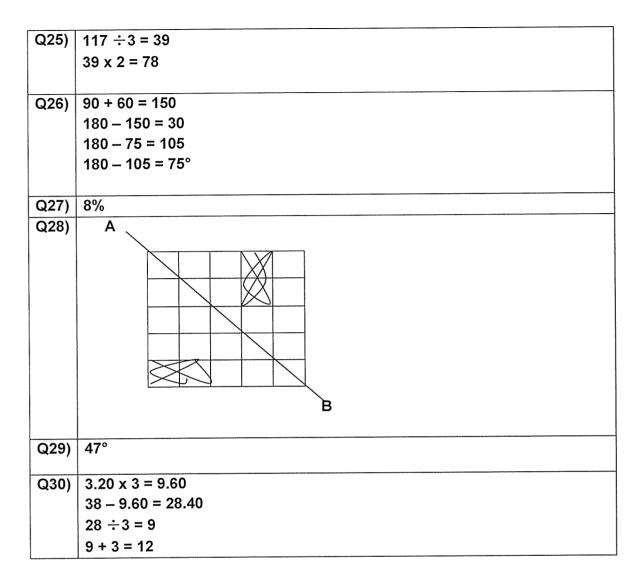
PAPER 1 BOOKLET A

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

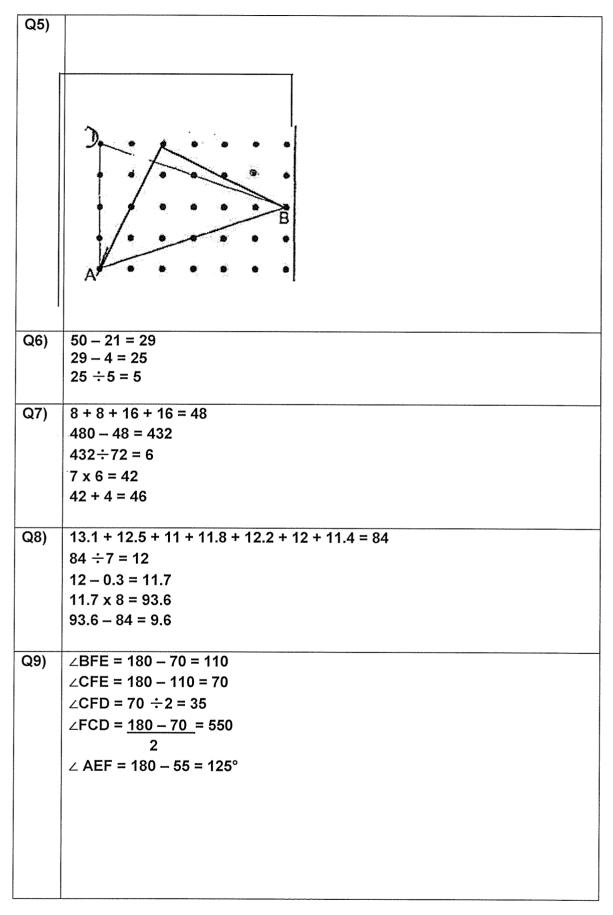
PAPER 1 BOOKLET B

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
Q21)	66.5
Q22)	3.5h
O22)	200 + 420 = 220
Q23)	200 + 120 = 320
	$320 \div 60 = 4$
	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
	36 X 10 - 300
Q12)	a)60°
(412)	b)94°
	b)94
Q13)	a)60g
(413)	b)260g
	b)200g
Q14)	57
•	
Q15)	a)\$72
	b)42
Q16)	11
(3.10)	
Q17)	904cm2
(411)	OV-TOTAL