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SA2

Anglo-Chinese School (Junior)



PRELIMINARY EXAMINATION (2021)

PRIMARY 6

MATHEMATICS

PAPER 1

Booklet A

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Friday

20 August 2021

Name: _____ (

Class: 6.(

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INSTRUCTIONS TO PUPILS

1 Do not turn over the pages 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 You are not allowed to use a calculator for this paper.

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

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

1. Round off 314 678 to the nearest thousand

- 1) 314 000
- 2) 314 680
- 3) 314 700
- 4) 315 000
- 2. Express $2\frac{9}{15}$ as a decimal.
 - 1) 2.35
 - 2) 2.6
 - 3) 2.9
 - 4) 2.915

3. Part of a scale is shown below. What is the most likely value of the reading at X?



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4. Which of the following fractions is the largest?

 $\begin{array}{c}
1) & \frac{2}{5} \\
2) & \frac{3}{7} \\
3) & \frac{4}{9} \\
4) & \frac{5}{12}
\end{array}$

5. Which one of the following would be the most likely height of the ceiling of your classroom?

- 1) 3 m -
- 2) 3 cm
- 3) 30 m
- 4) 30 cm

6. Which of the following is the same as 6.07 kg?

- 1) 6 kg 7 g
- 2) 6 kg 70 g
- 3) 60 kg 7 g
- 4) 60 kg 70 g

7.

The average of 5 numbers is 30. 4 of the numbers has a total of 96. What is the fifth number?

- 1) 30
- 2) 44
- 3) 54
- 4) 66

8. The bar graph below shows the number of four types of muffins sold by a shop in a day.



2)

4)

Which table best represent the information in the table?

1)

Muffins	Number Sold
A	80
B	100
Ċ	60
D	100

Muffins	Number Sold
A	60
B	80
C	100
D	80

3)

Muffins	Number Sold
Α	100
В	80
С	60
D	80

MuffinsNumber
SoldA100B60C80D60

9. Which pair of lines in the square grid is parallel?



- 1) AF // CD
- 2) AF // BC
- 3) AB // FE
- 4) AB // ED
- 10. The figure below shows 14 squares. What is the smallest number of squares that must be added so that the line XY becomes a line of symmetry?





- 11. At a concert, the ratio of the number of boys to the number of girls is 3 : 4. The ratio of the number of children to the number of adults is 1 : 2. What is the ratio of the number of girls to the number of adults?
 - 1) 2:1
 - 2) 2:7
 - 3) 3:7
 - 4) 4:7

1)

2)

3)

4)

12. In the figure below, PQRS is a rectangle. RTS is a right-angled triangle of sides measuring 6 cm, 8 cm and 10 cm. The perimeter of the shaded part is 56 cm. Find the area of rectangle PQRS.



13. Mrs Samy travelled 10.8 km in a taxi from home to the shopping mall. Her taxi fare was based on the charges shown below.

First km	\$3.70
Every additional 500 m or part thereof	\$0.3 0

How much was her taxi fare?

- 1) \$6.40
- 2) \$6.70
- 3) \$9.40
- 4) \$9.70
- 14. In the figure below, ABCD is trapezium. AD is parallel to BC and BC = EC. \angle BEC = 72° and \angle ADC = 65°. Find \angle ECD.



- 1) 36°
- 2) 43°
- 3) 72°
- 4) 79°

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- 15. Suresh used $\frac{2}{5}$ of his money to buy 4 pens and 9 rulers. The cost of 2 pens was the same as that of 3 rulers. What was the greatest number of rulers that Suresh could buy with the money he had left?
 - 1) 15
 - 2) 21
 - 3) 22
 - 4) 30

End of Booklet A

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Auglo-Chinese School (Junior)



PRELIMINARY EXAMINATION (2021)

PRIMARY 6

MATHEMATICS

PAPER 1

Booklet B

Friday

20 August 2021

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Class: 6.(

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Name:

INSTRUCTIONS TO PUPILS

1 Do not turn over the pages until you are told to do so.

2 Follow all instructions carefully.

3 Answer ALL guestions.

4 You are not allowed to use a calculator for this paper.

This question paper consists of 9 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 to the units stated. (5 marks)

16. Find the value of $8 \times 3 - (6 + 4) \div 2$.

17. Find the value of $\frac{4}{7} \div 6$. Express your answer as a fraction in its simplest form.

Ans : _____

Ans:

 A bottle contains 1.25 litres of juice. Arshad poured 400 ml of juice from it into a glass. How many litres of juice was left in the bottle?

• • •

Ans:_____/

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Sub-Total:

19. The timetable below shows the time a bus leaves the bus interchange for the airport.

Bus arrives at airport
9.05 a.m.
9.25 a.m.
10.00 a.m.
10.30 a.m.

Gracie wants to catch the bus that leaves at 8.20 a.m. but she is 45 minutes late. What is the earliest time Gracie can arrive at the eliport by bus?



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)

Write down all the common factors of 18 and 48 21.

Ans:_

× 4

Find the value of each of the expressions when k = 7. 22.

(a)
$$2k - \frac{k}{8}$$

• . •

(b)
$$k = 13 + 2k$$

Ans: (a)_____

(b)____

B4

Sub-Total :





23. Mr Siah had 80 wallets for sale. The graph below shows the number of wallets he had left at the end of each day from Monday to Friday.

- (a) On which day did Mr Siah sell the greatest number of wallets?
- (b) Find the difference between the number of wallets sold on Monday and Friday.



B5

24. The table below shows the amount of money Tom saved from January to May. What was the percentage increase in his saving in May as compared to February?

Month	Jan	Feb	Mar	April	May
Amount of Savings (\$)	54	48	50	36	60

Ans: _____%

25. In the figure, ABCD is a rectangle, ECFG is a square. \angle ECD = 70°. Find \angle y.



	0
Ans:	•
	and the second



86

26. The graph below shows the number of footballs sold by 4 shops in a week. The number of footballs sold is not shown on the scale.





Ans:

Ans:



87

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28. The square grid shows the positions of points A, B, C, D, E, F, G and H.



- (a) See Jun walked directly from point F to point B in a straight line. in which direction did See Jun walk?
- (b) Min Yang stood at one of the points facing G. After she turned 45° anti-clockwise, she faced E. At which point was Min Yang?

Ane: (a) _____

Ans: (b) Point : _____

29. May and Nancy have equal number of pieces of ribbon. They each have a mix of long and short ribbons. The length of each piece of short ribbon is 40 cm and each piece of long ribbon is 70 cm. May has 7 pieces of short ribbon and Nancy has 18 pieces of long ribbon. The total length of May's ribbons was 2.4 m longer than the total length of Nancy's ribbons. How many pieces of ribbon does May have?

Ans:		
	Sub-Total :	

88

- 30. In the square grid, a triangle ABC has been drawn.
 - (a) AC also forms one side of an isosceles triangle ACD in which ABC and ACD have the same area. Complete the drawing of triangle ACD in the equare grid.
 - (b) In the square grid, draw a parallelogram with the same perimeter as triangle ABC.

Label the parallelogram, P.



End of Bookjet B

B9

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	Anglo-Chinese School (Iunior)	
·	THE BEST IS YELL DE	
	PRELIMINARY EXAMINATION (2021)	
	PRIMARY 6	
	PAPER 2	
Fri	iday 20 August 2021	1 h 30 min
Nan	ne:() Class: 6.() Parent's Signat	ure:
INS.	TRUCTIONS TO PUPILS	
1	Do not turn over the pages until you are told to do so.	
2	Follow all instructions carefully.	
3	Answer ALL questions.	
4	You can use a calculator for this paper.	
		·
	Possible Marks	

Paper	Booklet	Possible Marks	Marks Obtained
1	Α	20	
•	В	25	
2		55	
To	otal	100	

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

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

1. The graph shows the number of mobile phones sold in a shop from June to October. The bars for the months of September and October have not been drawn.



The average number of mobile phones sold from June to October was 160. Find the largest possible number of mobile phones sold in October given that the number of mobile phones sold each month is a 3-digit number.

Ans:

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4. Owen had some fifty-cent and one-dollar coins. $\frac{2}{7}$ of his coins were fifty-cents coins. His mother gave him 10 one-dollar coins and five-dollars' worth of fifty-cent coins. In the end, he had twice as many one-dollar coins as fifty-cent coins. How many coins did Owen have at first?

Ans: _____

5. At a sale, a shop was offering a 20% discount for a pair of shoes. Customers can purchase a second pair of shoes at 50% discount. Scott paid \$156 for 2 identical pairs of shoes. How much did each pair of shoes cost before the discount?

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Sub-Total :	

4

Ans:\$

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

6. The figure is made up of rectangle PQTU and square QRST. UT = 3y cm, TS = 12 cm.



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The perimeter of the figure PRSU is 84 cm. Find the value of y.



7. Jonathan has some lollipops and he wants to put them into boxes. When he puts 4 lollipops into each box, he has 32 lollipops left over. When he puts 7 lollipops into each box, the last box had only 3 lollipops. How many lollipops does Jonathan have?





8. The graph below shows the number of different coloured whiteboard markers Mr Chen bought for his class.

- (a) How many whiteboard markers did Mr Chen buy?
- (b) Mr Chen gave away all his markers to 35 students in the class. Each student received either five or six whiteboard markers from Mr Chen. How many students received five whiteboard markers?



6

- 9.
- In the figure below, ABCD is a parallelogram and DEF is a triangle. ADE and FDB are straight lines. \angle FED = 40°, \angle CDB = 40° and \angle DCB = 83°.



- 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 ($\sqrt{}$) to indicate your approximate

For each statement, put a tick (γ) to j	indicate your answer.
•	•

Statement	Тле	Faise	Not pos	sible to
FD = DA		-		·····
DECB is a trapezium.				

[2]



10. The graph below shows the charges of a delivery company for the first 10 kilograms of parcels.

- (a) How much does the company charge for every additional kilogram of a parcel after the first 2 kilograms?
- (b) Mark wants to send a parcel with a mass of 20 kilograms. How much must he pay for the delivery charges?



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12. Machine A and Machine B were used to print the same number of cards each. Machine A took 60 minutes to print the cards. Machine B took 90 minutes to print the same number of cards. The faster machine printed 8 more cards per minute than the slower one. What was the total number of cards printed by the two machines?



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At a bakery, muffins and donuts were sold at the prices shown below. 13.



Amy had some money. She spent $\frac{1}{2}$ of her money to buy some donuts and the remaining of her money on some muffins. She bought 54 more donuts than muffins. How much money did Amy have at first?



- 14. Hansel and Sherman had some blue and green stickers. $\frac{3}{5}$ of Hansel's stickers were blue while $\frac{2}{3}$ of Sherman's stickers were blue. Hansel gave $\frac{3}{4}$ of his blue stickers to Sherman. In the end, $\frac{7}{10}$ of Sherman's stickers were blue and Hansel had 165 stickers left.
 - (a) How many blue stickers did Hansel give Sherman?
 - (b) How many stickers did Sherman have in the end?



15. OPQRS is part of a circle of diameter 40 cm. OPQR and OQRS are semicircles. The area of the shaded part OQR is 420 cm² and the perimeter of the shaded part OQR is 78 cm.



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

Take $\pi = 3.14$.

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16. The ratio of the number of marbles Ryan had to the number of marbles Audrey had at first was 2:7. After Ryan bought another 20 marbles and Audrey gave away 80 marbles, the ratio of the number of marbles Ryan had to the number of marbles Audrey had became 1:3. How many marbles did Audrey have at first?





14

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17. The figure below shows a rectangular field with a perimeter of 48 m. A footpath cuts through the field as shown below. The footpath is tiled with 15 15 identical circular concrete tiles. Each tile is in contact with the ones next to it.



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ANSWER KEY

YEAR	:	2021
LEVEL	:	PRIMARY 6
SCHOOL	:	ACS (J)
SUBJECT	:	MATHEMATICS
TERM	•	PRELIMINARY

BOOKLET A (PAPER 1)

Q1	4	Q2	2	03					
			<u> </u>	Q3	2	Q4	3	Q5	1
Q6	2	Q7	3	Q8	3	Q9	4	Q10	2
Q11	2	Q12	2	Q13	1				3
					_ 4	Q14	4	Q15	3

BOOKLET B (PAPER 1)

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Q16	19		
<u> </u>		Q17	$\frac{2}{21}$
Q18	1.25L = 1250ml	Q19	10.00 a.m
	1250ml - 400ml = 850ml = 0.85L		
Q20	7cm	Q21	1,2,3,6
Q22	a) $2k - \frac{k}{8} = (7x2) - \frac{7}{8} = 14 - \frac{7}{8}$	Q23	
			b) $8 - 8 = 0$
	$=\frac{14}{1}-\frac{7}{8}=\frac{112}{8}-\frac{7}{8}=\frac{105}{8}=13\frac{1}{8}$		
	b) K - 13 + 2k = 7 - 13 + 14		
	= -6 + 14 = 8	•	
Q24	60 - 48 = 12	Q25	<bce 90°-70°="20°</td" ==""></bce>
	$\frac{12}{48} = \frac{3}{12} = \frac{1}{4} = 25\%$		<dcf -="" 70°="20°</td" 90°="" ==""></dcf>
	40 12 3		<bcf +="" 20°="110°</td" 70°="" ==""></bcf>
			<y -="" 110°="250°</td" 360°="" ==""></y>
Q26	20u = 160	Q27	4 1 1
	$3u = \frac{160}{20} \times 3 = 8 \times 3 = 24$ footballs		$\frac{4}{5} \times \frac{1}{4} = \frac{1}{5}$
	20 20 20 20 20 20 100000000		$\frac{4}{5}$ kg - $\frac{1}{5}$ kg - $\frac{1}{2}$ kg
			$\frac{\frac{8}{10} \text{kg} - \frac{2}{10} \text{kg} - \frac{5}{10} \text{kg} = \frac{1}{10} \text{kg}}{10}$
Q28	a) North – west	Q29	40cm + (70u-490)
	b) Point : C		=1260 + 40u - 720
			(70u - 490) - (40u - 720)
			=30u - 230
			1260 - 40 = 1220

		30u - 230 = 1220 30u = 1220 - 230 = 990 $1u = \frac{990}{30} = \frac{99}{30} = 33$
Q30	a) $\frac{1}{2} \times 2 \times 6 = 6 \text{ cm} 2$	
	b)	

PAPER 2

Q1	160 X 5 = 800	Q2	30 X 30 X 60 = 54000cm3 = 54L
	800 - 180 - 120 - 150 = 350		54 ÷ 4 = 13.5L
	350 - 100 = 250		54 13.5 = 40.5
			40.5 ÷ 3 = 13.5 min
Q3	<fec -="" 180°="" 2="46°</td" 67°="" =="" x=""><td>Q4</td><td>1u = 10</td></fec>	Q4	1u = 10
-	<aec +="" 46°="113°</td" 67°="" ==""><td></td><td>7u = 10 x 7 = 70</td></aec>		7u = 10 x 7 = 70
	<eaf -="" 180°="" 67°="23°</td" 90°="" ==""><td></td><td></td></eaf>		
	$< X = 90^{\circ} - 23^{\circ} \times 2 = 44^{\circ}$		
Q5	100 x 2 = 200	Q6	84 - 12 x 4 = 36
•	200-(20+50)=130		6y = 36
	130% - 156		$1y = 36 \div 6 = 6$
	1% - 1.2		
	100% - \$120		· · · · · · · · · · · · · · · · · · ·
Q7	7-3=4	Q8	a) 24 + 40 + 36 + 48 + 32
	32 + 4 = 36		= 180
	36 ÷ 3 = 12		b) 120 ÷ 6 = 20
	12 x 4 = 48		180 - 120 = 60
	48 + 32 = 80		60 ÷ 5 = 12
			20 + 12 = 32
1			150 ÷ 6 = 25
i .			30 ÷ 5 = 6
			ANS : 30 students
Q9	a) <bda -="" 180°="" 40°="" 83°<="" =="" td=""><td>Q10</td><td>a) 10kg – 2kg = 8kg</td></bda>	Q10	a) 10kg – 2kg = 8kg
	= 57°		\$16 - \$4 = \$12
	<edc -="" 180°="" 40°<="" 57°="" =="" td=""><td>1</td><td>\$12 ÷ 8 = \$1.50</td></edc>	1	\$12 ÷ 8 = \$1.50
	= 83°		b) 20 – 2 = 18
ļ	<edf -="" 180°="" 40°="" 83°<="" =="" td=""><td></td><td>18 x \$1.50 = \$27</td></edf>		18 x \$1.50 = \$27
	=57°		\$27 + \$4 = \$31

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r			
	<dfe -="" 180°="" 40°<="" 57°="" =="" th=""><th><u> </u></th><th></th></dfe>	<u> </u>	
	=83°		
	b) FD = DA		
	-Not Possible to tell		
	DECB is a trapezium		
	- TRUE		
Q11	a) B and C	Q12	A: 1min - 8 move
	b)	•	60min - 480 move
			90min – 60min = 30min
	VII VIIVIA		B : 30 min – 480
	<u> <u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>		1min – 16
	c) 5+4+3+4+4+5+4+5		90min - 1440
	+ 2 = 36		1440 x 2 = 2880
Q13	10 x 6 = 60	Q14	a) $10 - 9 = 1$
	3 x 10 = 30	1	1p = 135
	7 x 6 = 42		b) 10p = 135 x 10 = 1350
	42 - 30 = 12		
	6 x 20 = 120		
	10 x 12 = 120		
	3 x 20 = 60		
	7 x 12 = 84		
	84 - 60 = 24		
	270 x 2 = \$540		
Q15	a) The area of OPQRS is	Q16	$1u = 3 \times 20 + 80 = 140$
	836cm2		7u = 140 x 7 = 980
	b) The perimeter of OPQRS		
	is 127.6cm		
Q17	a) $10 \times 2 = 20$		
	6 x 2 = 12		
	20 + 12 = 32		
	32u = 48		
	$1u = 48 \div 32 = 1.5m$		
	b) 1.5 x 1.5 = 2.25		
	15 x 2.25 = 33.75		
	$10u = 1.5 \times 10 = 15$		
	6u = 1.5 x 6 = 9		
	9 x 15 = 135		
<u> </u>	135 - 33.75 = 101.25cm2		-

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