SA2



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#### **Booklet A**

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

1.	The I	nass of a basketba	all is approximately	
	(1)	25 g		
	(2)	2.5 kg		
	(3)	6900g		
	(4)	0.69 kg		
2.	Find	the value of 2.4 ÷ 6	60.	
	(1)	0.004		
	(2)	0.04		
	(3)	0.4		
	(4)	4		
3.	Whic	h of the following, v	when rounded off to the nearest tenth, is 60	.3?
	(1)	59.32		
	(2)	59. <b>93</b>	•	
	(3)	60.2 <b>6</b>		
	(4)	60.3 <b>6</b>		
4.	How	many factors of 36	are multiples of 4?	
	(1)	8		
	(2)	2		
	(3)	3		
	(4)	4		
		· · ·	· ·	
			1.	



5. Arrange the following distances in descending order:

6. What is the approximate length of the paper clip below?



- (1) 4.25 cm
- *(2)* 4.5 cm
- *(3)* 4.8 cm
- (4) 6.1 cm
- 7. The ratio of the number of girls to boys in a class is 4:5. Half of the girls in the class had long hair. What is the ratio of the number of girls with long hair to the the number of students in class?
  - (1) 1:4
  - (2) 1:9
  - (3) 2:5
  - (4) 2:9

In the figure below, 3 cubes weighed the same as 5 balls. What is the average mass of each object if the mass of a cube is 80g?



 $\frac{10y}{4}$  - y + 2 when y = 4? What is the value of 5 + 9.

- (1) 9
- (2)11
- (3) 12
- (4) 13

10.

8.

The figure ABCD is a rectangle. Which angle is the same as  $\angle ABD$ ?

(1)	∠ADE
(2)	∠BDG
(3)	∠CBD
(4)	∠CFG



Auntie May had a roll of ribbon, 2m in length. She used 40 cm to wrap a present 11\_ and cut the remaining into h pieces. How long is each piece?

(1) 
$$\frac{240}{h}$$
 cm

(2) 
$$\frac{200-40}{h}$$
 cm

(3) 
$$(\frac{200}{40} \div h)$$
 cm

(4) 
$$(200 - \frac{40}{h})$$
 cm



12. The bar graph shows the different ways students travel to school. What fraction of the students take the MRT to school?

- 13. 10 girls and 5 boys lined up in a row. There were no boys standing next to each other. Between every two boys, there were 2 girls. The distance between two girls was 50 cm apart while the distance between a girl and a boy is 100 cm. How long was the line formed by the children?
  - (1) 600 cm
  - (2) 750 cm
  - (3) 1000 cm
  - (4) 1150 cm

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14. The figure below, not drawn to scale,  $\angle f$  is twice the sum of  $\angle b$  and  $\angle d$ . Find the sum of  $\angle a + \angle b + \angle c + \angle d + \angle e$ .

- (1) 240°
- (2) 270°
- (3) 300°
- (4) 360\*



15. A table with 4 columns is filled with numbers in a certain pattern. The first 4 rows are shown in the table below.

	Column A	Column B	Column C	Column D
Row 1	0	1	2	3
Row 2	. 7	6	5	4
Row 3	8	9	10	11
Row 4	15	14	13	12
:		-	:	· :

In which column will the number 487 appear?

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

#### End of Booklet A

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		•		-	
AT / GAL / WSV	W/ EL/LYL	Index No.			
	SINGAPORE CHI	NESE GIRL	S' SCHOO	)L	
	PRELIMINARY	EXAMINA	FION 2021		
	PR	IMARY 6			
	MAT	HEMATICS			
	BO	OKLET B			-
Name :		( )		17 Augu	st 2021
Class : Primary 6	SY/C/G/SE/P				
Paper 1	Mark attain	ed		Max Mark	
Booklet B				25	
15 Questions 25 Marks					
otal Time for Boo	oklets A and B: 1 h				
ollow all instruction	ook <b>let until</b> you are tol ns <b>care</b> fully. is.			•	
ou are <u>not allowe</u>	d to use a calculator				
a and a second	····				

	tet B tions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. Lestions which require units, give your answers in the units stated. (5 marks)	Do not write in this column
6.	Find the value of $3.06 - 1.2$ .	
	Ans:	
7.	Express $3\frac{5}{8}$ as a decimal, rounded off to 2 decimal places.	
	Ans:	
18.	Nadine bought a mug that cost \$20 before GST. What is the amount she had to pay after adding 7% GST?	
	Ans: \$	

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i











Do not write in



The graph below shows the number of chicken nuggets a group of children ate at a party. How many chicken nuggets did the children eat altogether?

29.

30. The figure ABCD, not drawn to scale, consists of 4 identical isosceles triangles.



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) ∠ADC is 90°			
b) Triangle ABC is an equilateral triangle.			

Do not write in this column

2

End of Booklet B

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T/GAL/WSW/		Index		
	EL/LYL	No.		-
	SINGAPORE	CHINESE GIRLS' S	CHOOL	
	PRELIMINA	RY EXAMINATION	2021	
		PRIMARY 6		
· · ·	N	ATHEMATICS		
		PAPER 2		
Name :		( )	17 August 2	021
Class:Primary 6 S	SY/C/G/SE/I	p		
	Mark	Max Mark	Parent's Sign	ature
Paper 2		55		
7 Questions 5 Marks				
7 Questions				
7 Questions 5 Marks	er 2: 1 h 30 min			
7 Questions 5 Marks otal Time for Pape ISTRUCTIONS TO o not open this boo pllow all instruction nswer all questions	CANDIDATES oklet until you are s carefully.	told to do so.		
7 Questions 5 Marks otal Time for Pape ISTRUCTIONS TO o not open this boo pllow all instruction nswer all questions	CANDIDATES oklet until you are s carefully.	told to do so.		
7 Questions	CANDIDATES oklet until you are s carefully.	told to do so.		

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below Do not write in each question and write your answers in the space provided. For questions which this column require units, give your answers in the units stated. (10 marks) . At a sale, mugs were sold at \$1.90 each and a free mug was given for every 2 1. mugs purchased. How much must Benny pay if he needed to get 15 mugs? Ans: \$\_ The table records the time taken by four students to complete a race. 2. Student Time in seconds Ali 12.1 **Bing Wen** 11.9 Charlie 13.8 11.8 Devi ... Who was the fastest? (a) What was the average time taken by the four students to complete the (b) race? Ans: (a) (b)\_\_\_\_\_s



In the figure below, not drawn to scale, Rectangle ABCD is cut into 3 parts. The area of 2 of the rectangles are 20 cm<sup>2</sup> and 30 cm<sup>2</sup>. Find the area of the shaded rectangle.



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**5**.

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6.	Mr Chan and Mr Toh had some money. $\frac{1}{4}$ of Mr Chan's money was	\$33 more	
	than $\frac{1}{3}$ of Mr Toh's. If they had \$1000 altogether, how much money Toh have?	does Mr	
	Ans:	[0]	
		[3]	
7.	Mrs Anand had some pasta sauce and wanted to add some minced n		
7.	the sauce. After adding 240 g of minced meat, $\frac{3}{5}$ of the mixture was m	ade of	
7.	the sauce. After adding 240 g of minced meat, $\frac{3}{5}$ of the mixture was measure. She added more minced meat and, in the end, $\frac{9}{20}$ of the mixture made of sauce. How much minced meat did Mrs Anand add to the particular sector.	ade of re was	
· · · · ·	the sauce. After adding 240 g of minced meat, $\frac{3}{5}$ of the mixture was measure. She added more minced meat and, in the end, $\frac{9}{20}$ of the mixture	ade of re was	
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A gym ball, 20 cm in diameter, was rolled across the length of a 510-cm room Do not write in and back to its original position. How many complete rotations did the gym ball make?



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10.



6

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Ans:

[3]



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Do not write in this column



7

12. In the figure below, not drawn to scale, ABCD is a rectangle and EFDG is a square. Given that EGY and FGX are straight lines, and ∠FDY is 235°, find (a) ∠XGY and (b) ∠FXA

Do not write in this column





8

Ans: (a)

1 1 22

(b)

\_[1]

[3]

4

\_\_\_\_\_\_. \_\_\_\_\_\_\_





Do not write in this column

- 14. Dest Benkl offered a combo deal where a refrigerator and a television set cost \$2340. In the end, it was a 22% discount of the original total.
  - (a) How much was the total cost of a refrigerator and television set originally?
    (b) Given that the original cost of the television set was \$1100, find the original cost of the refrigerator.

Do not write in this column



Ans: (a)

(b)

[2]

[2]

15. Sally wanted to make a card using semi-circles and quadrants of radius 1.5 cm all around a rectangular card. She attached the design using pins as shown below. The length of the rectangular card is 24 cm and its perimeter is 72 cm. Find the total area of the card.

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(Using the value of  $\pi$  in the calculator, round off your answer to 2 decimal places.)



Ans:

Do not write in this column

16. Mrs Salim spent \$88.40 on some files and notebooks. She spent \$18.40 more on files than notebooks. She bought  $\frac{3}{7}$  as many files as notebooks. Each file costs \$3.20 more than a notebook. How much does each file cost?

Do not write in this column

[4]

Ans:

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17. A group of students went on a trip to the Zoo and was split equally into two

13

# **ANSWER KEY**

YEAR	:	2021
LEVEL	:	PRIMARY 6
SCHOOL	*	SCGS
SUBJECT	;	MATHEMATICS
TERM	:	PRELIMINARY

## BOOKLET A (PAPER 1)

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<b>Q</b> 1	4	Q2	2	03	3	04	2		······
Q6	2	· Q7	4	Q8	4	Q9	4	Q5 1 Q10 2	
Q11	2	Q12	1	Q13	4	Q14	1	Q15 1	·

### **BOOKLET B (PAPER 1)**

010	14.00		
Q16	1.86	Q17	5 ÷ 8 = 0.625
			3.625 ≈ 3.63
Q18	100% - \$20	Q19	10 -5 = 5
	1% - \$0.20		1U – 5
	7% - \$0.20 X 7 = \$1.40		7U – 5 X 7 = 35
· · · · ·	\$20 + \$1.40 = \$21.40		35 + 5 = 40
Q20	99 X 99 = 99 (9X11)	Q21	\$1.50 + \$0.50 = \$2.00
	=h x 11 = 11h		\$1.50 x 3 = \$4.50
			$$2.00 \times 3 = $6.00$
			\$6.00 + \$4.50 = \$10.50
Q22	4 x 3 = 12	Q23	Total no.of pages $-10 \times 7 = 70$
	3 x 3 = 9	•	$70 \div 5 = 14$
	12 x 3 = 36		
	36 + 9 + 12 + 12 = 69		
Q24	<adc -="" 180°="" 65°="115°&lt;/td" ==""><td>Q25</td><td>12E = 3p</td></adc>	Q25	12E = 3p
	115° - 65° = 50°		$1p = 12 \div 3 = 4E$
	· ·		12 - 4 = 8
Q26	8 x 4 = 32	Q27	2L x 3 = 6L
	32 ÷ 2 = 16cm2		
Q28	90° - 60° = 30°	L	$6 \div \frac{1}{8} = \frac{6}{1} \times \frac{8}{1} = \frac{48}{1} = 48$
		Q29	3 x 1 = 3
	Arc - $(\frac{30}{360})$ (2 x $\pi$ x 60)		5 x 2 = 10
	$=\frac{1}{12} \times 2 \times \pi \times 60 = 10 \pi$		8 x 3 = 24
	$12 = 10 \pi + 10 \pi + 60 = 20 \pi + 60 \text{ cm}$		4 x 4 = 16
			16 + 24 + 10 + 3 = 53
Q30	a) False b) True		

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PAPER 2

Q1	\$1.90 X 10 = \$19	Q2	a) Devi b) 49.6 ÷4 =12.4s
Q3	a) $3p = 4a + $1$	Q4	$\frac{1}{2} \times 6 \times 6 = 18$
	4a = \$y		C-18units
	$1a = \$(\frac{\gamma}{4})$		3u - 18
	b) $4 \times (y+1) = $(4y+4)$		A-1u-6
	· · · · · · · · · · · · · · · · · · ·		B- 12u
Q5	Area = 5 x 3 = 15cm2	Q6	33 x 4 = 132
			1000 - 132 = 868
			7u # 868
			1u = 868 ÷ 7 = 124
		-	3u = 124 x 3 = \$372
Q7	6u - 240	Q8	5u – 35
	1u 40		1u - 35÷ 5 = 7
	11u - 440g	ļ	$2u - 7 \times 2 = 14$
Q9	a)	Q10	510 - 20 = 490
			490 $\div$ 20 $\pi \approx$ 7 rounds
1	55 7		7 x 2 =14
011	b) 2.9cm	Q12	a) <xgy 45°<="" =="" td=""></xgy>
Q11	a) Top View	Q12	b) 360° - 90° - 45° - 125°
			=100°
			100
	Side View		
		· ·	
	a succession of the second		
	b) Top = 6 Front = 5 Side = 5		
	$(5+5+6) \times 4 \times 2 = 128$		-2 1009/ 229/ $-799/$
Q13	a) 120 x 75 x 85	Q14	a) 100% - 22% = 78% 78% - \$2340
	= 765000cm3 b) 120 x 75 x 15 = 135000		1% - \$2340 ÷78 =\$30
	b) $120 \times 75 \times 15 = 155000$ $135000 \div 3 = 45000$		100% - \$30 x 100 =\$300
	70 x 120 x 75 = 630000		b) \$3000 - \$1100 = \$1900
	$45000 \times 5 = 225000$		57 43000 42200 - 42300
	43000 x 3 - 223000 630000 - 22500 =405000		
	405000 ÷5 =81000 ≈81L		
Q15	72 - 24 - 24 = 24	Q16	35 ÷ 7 = 5
	$24 \div 2 = 12$		53.40 ÷ 3 = 17.80
	Area of rec = $12 \times 24 = 288$		12.80 ÷ 3.20 = 4 units
1	$12 \div 1.5 = 8$		3 x 4 = 12
	8-6=2		$\frac{53.40}{12} = 4.45$
-			12

<u> </u>	24 ÷ 1.5 = 16		 			-
	16-8=8			•	·	E
	Area of $\frac{1}{4}$ circle = $\pi \times 1.5 \times 1.5 \times \frac{1}{4}$	. :	•			
	=1.767 No. of $\frac{1}{4}$ circle = 32 + 2 + 8 + 8 + 2					
	= 52					
	Area of all $\frac{1}{4}$ circle = 52 x 1.767					
	<b>≈91.884</b>					
	Area of total = 91.884 + 288					
<b></b>	=379.884 ≈ 379.88cm2					
Q17	1u + 8 + 1u + 16 = 56		 	·····		
	2u + 24 = 56					
	2u = 32					
	1u = 16					
	1u + 1u + 8					
	16 + 16 + 8					
	=32					

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