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HENRY PARK PRIMARY SCHOOL 2021 SEMESTRAL EXAMINATION 1 MATHEMATICS PRIMARY 6

PAPER 1 (BOOKLET A)

Parent's \$ignature

Name:

Class: Primary 6_____

Marks:

Deport 1	Booklet A	20
Paper 1	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.

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		pice (1, 2, 3 or 4) and shade your answer in the (Optical Answer Sneet. (20 marks)
	Whic	n digit in 92.87 is in the tenths place?	
	(1)	9	
	(2)	2	
	(3)	8	
	(4)	7	
2	Roun	d 43 589 to the nearest hundred.	
	(1)	43 000	
	(2)	43 500	
	(3)	43 600	
	(4)	44 000	
•		7	
3	Whic	h of the following is equal to $5\frac{7}{8}$?	
	(1)	<u>57</u> 8	
	(2)		
	(3)	47 8 43 6 35 8	
	(4)	35 8	
		Page 1	(Go on to the next pag

4 Find the value of 16 + 48 + 8 × 2

- (1) 28
- (2) 19
- (3) 16
- (4) 4

5 Jasper had a total of 81 toy cars. 63 of his toy cars were red and the rest of them were blue. Find the ratio of the number of red toy cars to the number of blue toy cars.

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- (1) 2:7
- (2) 7:2
- (3) 7:9
- (4) 9:7

6

The figure shows a cuboid with a square base and a height of 7 cm. Given that the area of the shaded face is 35 cm², find the volume of the cuboid.

- (1) . 175 cm³
- (2) 190 cm³
- (3) 210 cm³
- (4) 245 cm³



Page 2

Jason took 40 minutes to walk from his house to the library. He reached the library at 10.10 a.m. What time did Jason leave his house to go to the library?

- (1) 9.30 a.m.
- (2) 9.50 a.m.
- (3) 10.20 a.m.
- (4) 10.50 a.m.

8

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7

Find the total volume of water in the three containers shown below.



- (1) 0.9 litres
- (2) 1.05 litres
- (3) 1.4 litres
- (4) 1.55 litres

Page 3

The right half of a symmetric figure is shown below. AB is the line of symmetry,



Which one of the following completes the symmetric figure?



10 The table below shows the number of bottles collected by each student for recycling. There were 200 students in total.

Number of bottles	1 – 5	6 - 10	11 15	16 20	21 - 25
Number of students	20	40	80	50	10

Souvenirs were given to a group of students who collected the most number of bottles. 30% of the students received a souvenir. What was the least number of bottles a student must have collected to receive a souvenir?

(1) 6

9

- (2) 11
- (3) 16
- (4) 21

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Which one of the following statements is true?

- (1) The company sold three times as many computers in Day 2 as Day 1.
- (2) Half the computers were sold in Day 1 and Day 2.
- (3) The company sold $\frac{1}{6}$ of the computers in Day 3.
- (4) 30% of the computers were sold in Day 4.

12

1 2

A repeated pattern is formed using the numbers 0, 1, 2 and 3. The first 20 numbers are shown below.

1	3	2	0	1	1	3	2	0	1	1	3	2	0	1	1	3	2	0	1	
51	2 nd	3:0					*****		·						•••••			+	20 th	
Vha	ət is	the	sum	oft	he f	irst (307	n i in	har	د ی									(*	
				~~~		noci			UCI	5;										
¥)	4	427																		
2)		128																		
5)	4	129																		
<b>h</b> ))	4	31																		
								ţ	, age	5						(Go	<b>~</b> ~ <b>i</b>	adta	next page)	

	Smallest		Largest
(1)	Α.	В.	<b>C</b>
(2)	Α.	С,	В
(3)	В,	C,	A
<b>(4)</b>	С,	А,	В

13 In the square grid below, A is a right-angled triangle, B is a square and C is an isosceles triangle. Arrange A, B and C from the smallest to the largest area.

14 At first, Lina had \$24 less than Kelly. After Kelly spent \$45 and Lina spent \$33, Kelly had three times as much money as Lina. How much money did Lina have at first?

- (1) \$39
- (2) \$51
- (3) \$57
- (4) \$63

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15 Figure 1 shows a rectangular tile measuring 5 cm by 2 cm. Figure 2 is formed using 6 such tiles. Find the perimeter of Figure 2.



Figure 2

- (1) 40 cm
- (2) 42 cm
- (3) 51 cm
- (4) 60 cm

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## HENRY PARK PRIMARY SCHOOL 2021 SEMESTRAL EXAMINATION 1 MATHEMATICS PRIMARY 6

## PAPER 1 (BOOKLET B)

25

Name: _____( )

Class: Primary 6_____

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 3 - 0.02Ans: 17 Write down all the common factors of 35 and 63 Ans: Express  $\frac{27}{1000}$  as a percentage. 18 Ans: % Page 1 (Go on to the next page)



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Page 2









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## HENRY PARK PRIMARY SCHOOL 2021 SEMESTRAL EXAMINATION 1 MATHEMATICS PRIMARY 6

### PAPER 2

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Name: _____ (

Class: Primary 6_____

Time for Paper 2: 1 h 30 min

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.







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SDACE	or questions 6 to 17, show your working clearly and write your answers in the baces provided. The number of marks available is shown in the brackets [ ] at e end of each question or part-question. (45 mark						
6	Jie En received \$4.50 pocket money daily. From Monday to Friday, he spent \$3.30 each day and saved the rest. On Saturday and Sunday, he saved all his pocket money. Given that he started saving on Monday, how many days would it take Jie En to save \$126?						
	· ·						
	r						
	,	 					
	Ans: [3]						
	Page 4 {Go on to the	s next page)					

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Page 8





(	Vhat is the total Choir to join the Now many stude	Dance+Club	<b>b</b> ?		Club and th	18	
(b) I			the Art Clui	o at first?			
		·					
					-		
		• •					
			Ans: (a)	·····	·	- [1]	
		:	(b)			<b>_</b> [3] [	

90 mi	tory has two machines for canning milk. One machine takes inutes while another takes 110 minutes to produce the same numbe ns of milk. The faster machine produces 16 more cans of milk per te than the slower machine.	Do not write in this space
(a)	How many cans of milk can the slower machine produce per minute?	
(b)	With both machines starting at the same time, how long will it tak the factory to produce 12 800 cars of milk?	8
	· · · · · · · · · · · · · · · · · · ·	
	·	
	Aris: (a)	_[2]
	(b)	[2]
	Page 12 (Go on	to the next page)

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15 Henry spent  $\frac{2}{5}$  of his money on 7 pairs of shorts and  $\frac{2}{9}$  of his remaining money on 3 T-shirts. Each pair of shorts cost \$8 more than each T-shirt. How much money did Henry have left?

Ans:

Page 13

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Do not write in this space

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### EXAM PAPER 2021

LEVEL	:	PRIMARY 6
SCHOOL	:	HENRY PARK PRIMARY SCHOOL
SUBJECT	:	MATHEMATICS
TERM	:	SA1

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# PAPER 1

Q1	Q2	<b>Q</b> 3	Q4	Q5	Q6	07	08	09	010
3	3	2	1	2	1	1	2	4	3
Q11	Q12	Q13	Q14	Q15		<u> </u>			
2	4	2	1	1					,

SECTION B

Q16. 2.98

Q17. 1, 7

Q18. 2.7 %

Q19. 9.0cm

Q20. 114°

Q21. 600g

Q22.36

Q23. 120

Q24. (a) P (b) R

Q25. 10:9

Q26.58

Q27.70

Q28. 3π + 4

Q29. 68°

Q30. 214m²

## PAPER 2

Q1. 16u + 4u + 5u = 1450  $25u \rightarrow 1450$   $1u \rightarrow 1450 \div 25 = 58$   $16u \rightarrow 16 \times 58 = 928$ Ans: 928

- Q2. 180° 48° = 132° 132° - 57° = 75° 180° - 75° = 105° Ans: 105°
- Q3. 145 × 4 =580 100 + 101 +102 = 303 580 - 303 = 277 Ans: 277
- Q4. 32 2 = 30 30 ÷ 3 =10 18 ÷ 10 = 1.8 Ans: 1.8m
- Q5. J : N : F5 : 2 : 6 50:20:60 30% × 60 = 18 60% × 20 = 12 18 - 12 = 6  $\frac{6}{50} \times 100 = 12\%$ Ans: 12%
- Q6.  $(4.50 3.30) \times 5 = 6$   $4.50 \times 2 = 9$  6 + 9 = 15  $126 \div 15 = 8 r6$   $(8 \times 7) + 5 = 61$ Ans: 61 days

Q7.  $70\% \rightarrow 2730$   $100\% \rightarrow 2730 \div 70 \times 100 = 3900$   $6u \rightarrow 3900$   $1u \rightarrow 3900 \div 6 = 650$   $5u \rightarrow 650 \times 5 = 3250$ Ans: \$3250

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Q8. 180° - 52° = 128° 180° - (66° + 66°) = 48° 48° × 3 = 144° 360° - (128° + 144°) = 88° (180° - 88°) ÷ 2 = 46° Ans: 46°

Ans: 61 (b)  $150 \times 8 = 1200$  1200 - 330 = 870  $870 \div 30 = 29$   $29 \times 5 = 145$   $145 \text{ min} = 2h \ 25 \text{min}$   $09 \ 30 \rightarrow 11 \ 30 \rightarrow 11 \ 55$ Ans: 11 55

30

Q10. (a) 2k + k + 2k + 3 + k + 4 = 139 6k + 7 = 139 6k = 132 k = 22cmAns: 22cm

(b) False, Not possible to tell, False

3

Q11. (a)



 $(1,1,\dots,1,n) \in \mathbb{R}^{n} \times \mathbb{R}^{$ 

- (b) 25cm²
- Q12. (a) \$1:50c:20c 6:2:7

**Ans:**  $\frac{7}{15}$ 

(b)  $6u \times 100c = 600u$   $2u \times 50c = 100u$   $7u \times 20c = 140u$  600u - 100u - 140u = 360u  $360u \rightarrow 9720$   $1u \rightarrow 9720 \div 360 = 27$   $15u \rightarrow 15 \times 27 = 405$ Ans: 405

Q13. (n) A : C  
3 : 1  
30:10  
-6: -2  
24:8  
145% 
$$\rightarrow$$
 116  
 $\frac{45}{145} \times 116 = 36$   
Ans: 36  
(b) 8u  $\rightarrow$  36  
1u  $\rightarrow$  36  $\div$  8 = 4.5  
30u  $\rightarrow$  4.5  $\times$  30 = 135

Ans: 135

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Q14. (a) 
$$110 - 90 = 20$$
  
 $90 \times 16 = 1440$   
 $1440 \div 20 = 72$   
Ans: 72

(b) 72 + 16 = 88
88 + 72 = 160
12800 ÷ 160 = 80
80min = 1h 20min
Ans: 1h 20min

Q15.  $5u \times 9 = 45u$ 7 shorts  $\rightarrow 18u$ 1 short  $\rightarrow 18 \div 7 = \frac{18}{7}u$ 3 t-shirts  $\rightarrow 6u$ 1 t-shirt  $\rightarrow 2u$   $\frac{18}{7}u - 2u = \frac{4}{7}u$   $\frac{4}{7}u \rightarrow 8$   $1u \rightarrow 8 \div 4 \times 7 = 14$   $21u \rightarrow 21 \times 14 = 294$ Ans: \$294

Q16. (a) 10 + 10 = 20  $3.14 \times 20 = 62.8$   $62.8 \div 4 = 15.7$   $3.14 \times 26 = 81.64$   $81.64 \div 2 = 40.82$   $24 \div 37.68 \div 15.7 \div 10 \div 40.82 = 128.2cm$ Ans: 128.2cm (b)  $(3.14 \times 24 \times 24) \div 4 = 452.16$  $10 \times 24 \div 2 = 120$ 

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FNP

11.14 11.14 11.14

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180° -128° = 52° 52° ÷ 2= 26° 180° - 26° - 68° = 86° **Ans: 86°** 

180° - 90° - 22° = 68° Ans: 68° (b)

 $90^{\circ} - 68^{\circ} = 22^{\circ}$ Q17. (a)