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HENRY PARK PRIMARY SCHOOL 2021 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 1 (BOOKLET A)

Name:

Class: Primary

Marks:

vidino.		
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.

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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 in the Optical Answer Sheet. (20 marks) Round 21.356 to the nearest tenth. 1 (1) 20.0 (2)21.0 (3)21.3 (4) 21.4 2 Find the value of $6 + 12 + 3 \times 2$ (1) 12 (2)14 (3) 3 (4) 20 3

Which one of the following is closest to the reading shown on the weighing scale below?

- (1) 36.6 kg
- (2) 38.1 kg
- (3) 38.6 kg
- (4) 39.4 kg



Page 1

4

Express 25 seconds as a fraction of 2 minutes.

(1) $\frac{1}{8}$ (2) $\frac{2}{25}$ (3) $\frac{5}{12}$ (4) $\frac{5}{24}$

5

6

Which two lines are perpendicular to each other?

- (1) BE and CD
- (2) FA and FD
- (3) FD and BE

(4) FD and FE



Ravi has $\frac{3}{4}$ as many stamps as Peter. Find the ratio of the number of stamps Peter has to the total number of stamps the two boys have.

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

Page 2

7 Ken cycled along a track from 5.30 p.m. to 6.50 p.m. Lee cycled along the same track from 5.40 p.m. to 7.20 p.m. How much longer did Lee cycle than Ken?

- (1) 10 min
- (2) 20 min
- (3) 30 min
- (4) 40 min
- 8 The figure is made up of a quarter circle of radius 8 cm and a semicircle. Find the area of the semicircle.
 - (1) $32\pi \text{ cm}^2$
 - (2) $16\pi \,\mathrm{cm}^2$
 - (3) $8\pi \,\mathrm{cm}^2$

(4)
$$4\pi$$
 cm²



9

Arrange the following distances from the longest to the shortest.

·	9.45	5 km	9 km 95 m	9 <mark>3</mark> km	
	Longest		Shortest		
(†)	9 <mark>3</mark> km,	9.45 km,	9 km 95 m		
(2)	9 <mark>3</mark> km,	9 km 95 m,	9.45 km		
(3)	9.45 km,	9 <mark>3</mark> km,	9 km 95 m		
(4)	9 km 95 m,	9.45 km,	9 <mark>3</mark> km		

Page 3

Use the information below to answer Questions 10 and 11.

The bar graph below shows the number of computers sold in each month from August to November. The bar for the number of computers sold in November has not been drawn.



10 How many computers did the shop sell altogether in August and September?

- (1) 80
- (2) 84
- (3) 90
- (4) 96

11 The number of computers sold in November was a 25% increase from the number of computers sold in October. How many computers were sold in November?

- (1) 9
- (2) 27
- (3) 45
- (4) 63

Page 4

12 At first, there were 60 red apples and 40 green apples in a basket. Mrs Lim then sold 10% of the red apples and 25% of the green apples. What percentage of the apples in the basket did she have left?

- (1) 16%
- (2) 35%
- (3) 65%
- (4) 84%

In the figure below, ABCD is a trapezium where CD is parallel to AB. Given that AE = DE, find $\angle EAB$.



14

13

At first, Alex and Melissa were facing the same direction. Then, Melissa turned 225° anti-clockwise to face East and Alex turned 90° clockwise. Which direction did Alex face in the end?

- (1) North-East
- (2) North-West
- (3) South-East
- (4) South-West

Page 5

15 Maliki cut a square piece of paper measuring 12 cm in length into 2 pieces of squares and 2 pieces of rectangles as shown in Figure 1. He arranged the pieces to form a big rectangle as shown in Figure 2. What is the perimeter of the big rectangle in Figure 2?



- (1) 48 cm
- (2) 60 cm
- (3) 108 cm
- (4) 144 cm

Page 6

(Go on to BOOKLET B)



HENRY PARK PRIMARY SCHOOL 2021 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 1 (BOOKLET B)

Name

Class: .____

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.

25

Quest For qu	Do not write in this space		
16	Jane has five 50-cent coins, three 20-cent coins and seven 5-cent coins. What is the total value of all the coins that Jane has?		
	Ans: \$		
17	Find the value of $24 + \frac{2}{3}$		
. <u></u>	Ans:		
18	Express 0.019 as a percentage.		
·			
	Ans:	%	
	Page 1 (Go on to	the next page)	











29 Chocolates are sold at the prices shown below.

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Type of chocolate	Price per packet of chocolates
Dark	\$2.50
White	\$2.00
Milk	\$1.20

The bar graph shows the number of packets of each type of chocolate that Noah bought.



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in this space

30 At first, chairs in a hall were arranged in rows of 12. Then, 57 more chairs were brought in and all the chairs were rearranged into rows of 21. In the end, there were 5 fewer rows. How many rows of chairs were there in the hall in the end?

Ans: _

Page 8 End of Paper 1



HENRY PARK PRIMARY SCHOOL 2021 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 2

Parent's Signature



Name

Class:

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.

answe	ons 1 to 5 carry 2 marks each. Show your working clearly and write your rs in the spaces provided. For questions which require units, give your rs in the units stated. (10 marks)	Do not write in this space
4	A bag of 6 pears cost \$3w. Damon bought 54 pears and had \$42 left. Given that he had \$150 at first, find the value of w.	
2	Ans: The figure shows a parallelogram PQRS and a right-angled triangle PUT. Given that PUQ and PTS are straight lines and 2STU = 137°, find 2PQR.	
	P U T T J J J T T J J J T T J J J T T J J J T T J J J T T J J T T J J T T J J T T J T	
	Ans:	
	Page 1 (Go on to	the next page)

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1





Page 3









Mrs Tan baked blueberry muffins and cinnamon muffins in the ratio 3 : 1. She sold 50% of all her muffins. $\frac{5}{6}$ of the muffins sold were blueberry muffins. In the end, she had 36 cinnamon muffins left. How many blueberry muffins did she have left?

10

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[3]

Ans:

Page 8







Page 11









ANSWER KEY

YEAR	:	2021
LEVEL	:	PRIMARY 6
SCHOOL	:	HENRY PARK
SUBJECT	:	MATHEMATICS
TERM	:	PRELIMINARY

BOOKLET A (PAPER 1)

Q1	4	Q2	2	Q3	3	Q4	4	Q5	2
Q6	4	Q7	2	Q8	3	Q9	1	Q10	4
Q11	3	Q12	4	Q13	2	Q14	1	Q15	2

BOOKLET B (PAPER 1)

Q16	\$3.45	Q17	36
Q18	1.9%	Q19	
	s ⁽		
Q20	30 - 20 = 10	Q21	43° + 90° = 133°
	40 X 25 X 10 = 1000 X 10 = 10000ml		
Q22	15 + 20 x 3 = 15 + 60 = 75s	Q23	20 + 40 + 20 + 40 = 120
			120 + 31.4 = 151.4cm
Q24	22 – 8 = 14(mn)	Q25	a) $(\frac{14k-4}{2})$ cm
	14 – 4 = 10 (sn)		b) $14 \times 8 = 112$
	S : M		112 - 4 = 108 cm
	10:14		112 - 4 = 108cm
	5:7		
Q26	30 ÷ 2 = 15	Q27	
	$15 \times 20 \times \frac{1}{2} = 150 \text{ cm} 2$	a)b)	
Q28	$\frac{4}{5} = \frac{16}{20}$	Q29	D : 2.5 x 10 = 25
			W: 2 x 16 = 32
	$\frac{1}{4} = \frac{3}{20}$		M : 1.2 x 8 = 9.6
	ANS: $\frac{5}{16}$		9.6 + 25 + 32 = 9.6 + 57 = \$66.60
Q30	R x 12 = (R-5)x21 - 57		
	12R = 21R-105-57		
	12R = 21R - 162		
	9R = 162		

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$R = 162 \div 9 = 18$	
18 - 5 = 13	

PAPER 2

54 ÷ 6 = 9

Q1

ł

Γ	$R = 162 \div 9 = 18$	
	18 - 5 = 13	

Q2

180° - 137° = 43°

Q1	54 ÷ 6 = 9	QZ	$180^{\circ} - 137^{\circ} = 43^{\circ}$
· · · · · · · · · · · · · · · · · · ·	9 x 3w = 27w		180° - 90° - 43° = 47°
	150 - 42 = 108		180° - 47° = 133°
	108 - 27 = 4		
Q3	3 - 1 = 2	Q4	78 + 106 + 85 = 269
	$2 \div \frac{1}{2} = 2 \times 2 = 4$		95 x 4 = 380
	$4 \times 3.5 = 14$		380 - 269 = 111
	4 x 5.5 = 14 14 + 8 = \$22		
Q5	$70 \div 2 = 35$	Q6	ə) 120
	• • • • • • •		b) 120 + 560 + 240 + 160
l	35 x 35 x $\frac{22}{7}$ x $\frac{1}{2}$ = 1925 (semi)		= 1080 ($\frac{3}{4}$ of student)
Ì	56 x 42 x $\frac{1}{2}$ = 1176 (tri)		· · · ·
	1925 – 1176 = 749 cm2	1	$1080 \times \frac{4}{3} = 1440$
Q7	May : 2240 x $\frac{100}{80}$ = 2800	Q8	Each set : 4 – 1 = 3
	June : 2016 x $\frac{100}{90}$ = 2240		84 ÷ 3 = 28
	30		28 x 7 = 196
	July : \$2016		196 - 2 = 194
	ANS : \$2800	010	2
Q9	$180^{\circ} - 90^{\circ} - 40^{\circ} = 50^{\circ}$	Q10	3u + u = 2u 2u = 36
	$90^{\circ} - 50^{\circ} = 40^{\circ}$		9u - 6u = 4u
	40°+90° = 130°	ļ	$4u = 36 \times 2 = 72$
011	360 °- 130 °= 230° a) Friday	Q12	a) $180^\circ - 66^\circ - 66^\circ = 48^\circ$
Q11	b) 120 - 8 = 112	QIE	180° - 48° - 112° = 20°
i	$112 \times 60 = 6720$		b) $180^\circ - 20^\circ - 20^\circ = 140^\circ$
	1	1	360° - 140° - 66° - 66°
	$60 \times \frac{100}{80} = 75$		=88°
	75 x 8 = 600		
	600 + 6720 = \$7320		
Q13	$12 \times 10 = 120$	Q14	a) 14 x 15 = 210cm2 b) 156 + 84 + 91 = 331
	$10 \times 10 \times 3.14 \times \frac{1}{4} = 78.5$		$331 \times 2 = 662$
	120 - 78.5 = 41.5		551 X 2 = 002
	$\frac{1}{4} \times 3.14 \times 12 \times 12 = 113.04$		
	$\frac{4}{113.04} - 41.5 = 71.54$ cm2	1	
Q15	a) 32 + 8 = 40 (white sq)	Q16	a) 13 - 5 = 8
	4 x 4 = 16 (grey sq)		8 x 40 = 320
			b) 4G + 128 + 5G = 452
	b) 169 x 169 = 28561	1	o , io i i i i i i i i i i

·	= 16 + 168 x 8 = 16 + 1344 = 1360 1360 + 28561 = 29921	$10G = 324 \times \frac{10}{9} = 360$ 13 x 15 = 195 195 + 360 = 555
Q17	a) 864 ÷ 9 x 2 = 192	
	864 ÷ 12 x 5 = 360	
	b) 80 ÷ 6 = 13R2	
	360 ÷ 3 = 27R9	
	27 + 1 = 28	

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