

HENRY PARK PRIMARY SCHOOL 2020 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 1 (BOOKLET.A)

Name:)

Parent's Signature

Class: Primary 6F

Marks:		
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.

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)

In 3 ⁻	.42, which digit is in the tenths place?
(1)	1
(2)	2
(3)	3
(4)	4
Expr	ess $1\frac{3}{50}$ as a decimal.
(1)	1.06
(2)	1.3
(3)	1.35
(4)	1.6
Whic line b	n of the following is closest to the number indicated by the arrow in the number elow?
(1)	123
(1) (2)	

(4) 129

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Page 1

- Andre had a number of red apples, green apples and oranges in the ratio 8 : 3 : 2. What is the ratio of the number of oranges to the total number of apples that Andre had?
 - (1) 2:11

4

- (2) 2:13
- (3) 11:2
- (4) 13:2
- 5 On a bus, 9 of the passengers were men, 15 of the passengers were women and the rest were children. Given that 20% of the passengers were children, how many passengers were there in total on the bus?
 - (1) 24
 - (2) 30
 - (3) 96
 - (4) 120
- 6 A train left Town X for Town Y. The journey took 3 h 50 min. The train arrived at Town Y at 11 05. What time did the train leave Town X?
 - (1) 07 15
 - (2) 08 40
 - (3) 08 45
 - (4) 08 55

Page 2



Use the information below to answer Questions 7 and 8.

The graph shows the number of people who visited a shop from Monday to Thursday.

7 How many people visited the shop on Monday and Tuesday?

- (1) 142
- (2) 144
- (3) 148
- (4) 154
- 8 Given that a total of 104 adults visited the shop on Wednesday and Thursday, find the ratio of the number of children to the number of adults who visited the shop on these two days.
 - (1) 6:13
 - (2) 6:19
 - (3) 13:6
 - (4) 13:19

Page 3

The figure below shows a plastic cubical container partly filled with unit cubes. How many more unit cubes are needed to fill the container completely?



- (1) 8
- (2) 10 · ·
- (3) 17

9

- (4) 19
- 10 Which one the following fractions is larger than $\frac{1}{4}$?
 - (1) $\frac{6}{24}$ (2) $\frac{5}{21}$ (3) $\frac{4}{15}$ (4) $\frac{3}{13}$:

(Go on to the next page)

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

11 In the figure below, ABCD is made up of 3 identical rectangles. The perimeter of ABCD is 60 cm. Find the length of BC.



12 The lengths of two ribbons are in the ratio 5 : 3. The length of one ribbon is 30 cm longer than the other. Find the length of the shorter ribbon.

- (1) 18 cm
- (2) 45 cm
- (3) 50 cm
- (4) 75 cm

13

At first, Walter and Ming Ming were facing the same direction. Then, Walter turned 225° anti-clockwise to face South-West and Ming Ming turned 45° clockwise to face South-East. Which direction were Walter and Ming Ming facing at first?

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

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14 In the figure below, ABCD is a parallelogram and ABE is a triangle. Find $\angle ABE$.



15 The chairs in a hall were arranged in rows. Each row had the same number of chairs. William sat on one of the chairs. There were 5 chairs to his right and 5 chairs to his left. There were 4 rows of chairs in front of him and 8 rows of chairsbehind him. How many chairs were there altogether in the hall?¹³

- (1) 120
- (2) 130
- (3) 132
- (4) 143

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HENRY PARK PRIMARY SCHOOL 2020 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

· PAPER 1 (BOOKLET B)

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25

Name: _____(

Class: Primary 6 F



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.

2

Answer all questions.

Write your answers in this booklet.

You are not allowed to use a calculator.



Page 1



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(Go on to the next page)

Page 2

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.

Do not write in this space



Page 3



Page 4

24		ad \$(y + 7). Flora had \$4 less than Ellie. had \$2y more than Flora.	Do not write in this space
	(a)	Find the total amount of money the three girls had in terms of <i>y</i> . Express your answer in the simplest form.	
	(b)	Given that the three girls had a total of \$33, find the value of y .	
		· · · · · · · · · · · · · · · · · · ·	
			-
		Ans: (a)	[]
		(b)	
25	and Be have is	en and Charlie have some marbles. The number of marbles that Ace n have is in the ratio 4 : 5. The total number of marbles Ace and Ben three times the number of marbles Charlie has. Given that Ace and have 350 marbles, how many more marbles does Ben have than	
		Ans:	
		4	

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Page 5

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There are 40 pupils in class 6J. The table below shows the number of points each pupil in the class scored in the first round of a game.



point	s each pupil in the cl	ass score	ed in the	first rou	nd of a g	jame.		in this space
Poir	its scored	- 0	1	2	3	4	5	
Num	ber of pupils	3.	6	7	8	. 10	6	
	· · · ·	.I	L.,	I	I	L	<u> </u>	
(a)	How many pupils	in class (3J score	d at leas	t 3 points	s?		
(b)	Pupils who did not take part in the se second round. Wh have scored in orc	cond rou lat was th	nd. 16 p ne least i	upils cou number (uld not ta of points	ke part i a pupil i	n the •	
			Ans: (a)					
			(b)					
A pied	ce of wire is bent to f ctangle is twice its b	orm a rec readth. F	ctangle o	of area 1 breadth d	62 cm². of the red	The leng	oth of	
			Ans:				cm	

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Page 8 End of Paper 1



HENRY PARK PRIMARY SCHOOL 2020 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 2

Parent's Signature

Name:	 ()

Class: Primary 6_F

55

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.

CI II SVI	stions 1 to 5 carry 2 marks each. Show your working clearly and write your /ers in the spaces provided. For questions which require units, give your /ers in the units stated.	Do not write in this space
	(10 marks)	
1	Jane had some money. She spent \$15 and gave Lisa \$10. In the end, both Jane and Lisa had the same amount of money. How much more money did Jane have than Lisa at first?	
		- -
	Ans: \$	
2	Mr Aziz had some apples. He sold $\frac{1}{5}$ of the apples on Monday and 80 apples on Tuesday. In the end, he was left with 30% of the apples he had at first. How many apples did he have in the end?	
	Ans:	

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Page 1

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Page 3

5

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 the brackets [] at the end of each question or part-question.

(45 marks)

[3]

Do not write in this space

6 Chin Meng earned the same amount of money each month. In October, he spent \$1070 and saved the rest. The amount he spent in November was a 30% decrease from what he spent in October. As a result, his savings for November increased by 60%. How much money did Chin Meng earn each month?

Ans:

Page 4

7 The table below shows the charges for water usage by PRB company.

Do not write in this space

Monthly Water Usage	Price per m ³
0 to 40 m ³	\$1.21
More than 40 m ³	\$1.52

- (a) Mdm Salimah's family used 40 m³ of water in August. How much was her family charged for their water usage?
- (b) Mr Muthu spent \$103.12 on water usage in September. What was the volume of water Mr Muthu used in that month?

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Ans: (a)[1] [2]		
(b)[2]	Ans: (a)[1]	
	(b)[2]	

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The figure below is made up of rhombus BCDF and two identical right-angled isosceles triangles, ABF and EFD. The perimeter of rhombus BCDF is 12p cm and the length of AB is (p + 3) cm.



- (a) Find the perimeter of figure ABCDEF in terms of *p* in the simplest form.
- (b) Find the area of triangle ABF given that p = 6



Page 6

8

The graph below shows the number of burgers sold by a fast food 9 Do not write restaurant from February to May. in this space 400 ****** 300 Number of burgers 200 sold 100 0 February March . April May (a) What is the average number of burgers sold in each month from February to May? Find the percentage increase in the number of burgers sold from (b) February to March.



10 At Candyland, chocolates are only sold in packets of 5 pieces and lollipops are only sold in packets of 4 sticks at the prices shown below.

Do not write in this space



Judy spent \$101.34 on some chocolates and lollipops at Candyland. She put all the chocolates and lollipops into bags such that there were 3 pieces chocolates and 2 sticks of lollipops in each bag. How many sticks of lollipops did Judy buy from Candyland?

Ans:

[4]

11 In an Art Club, the number of girls is 4 times the number of boys. The number of girls who wear spectacles is $\frac{2}{5}$ the total number of children who wear spectacles in the Art Club. Given that 170 girls and 20 boys do not wear spectacles, find the total number of girls in the Art Club.

Do not write in this space

Page 9

Ans:

[4]

The table below shows the prices of admission tickets to a theme park. 12

Do not write in this space

Type of ticket	Price per ticket
Child	\$43
Adult	\$55
Senior Citizen	\$32

4705 Mr Suraj paid 5005 for admission tickets to the theme park for a group of tourists. $\frac{2}{3}$ of the tourists were children. The remaining tourists were adults and senior citizens in the ratio 5 : 2. How many children were there in the group of tourists?

Ans:

[3]

Page 10





1.5 m

Do not write in this space

Page 11

Ans:

[3]

The outline of the shaded figure below is formed by a semicircle, 14 four identical quarter circles and two straight lines.



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

(Take π = 3.14)





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Do not write in this space



The graphs below show the number of television sets sold by Shop A and the amount of money collected by Shop B from the sale of television sets from June to September.

Do not write in this space



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- (a) Given that Shop B sold each television set at a fixed price of \$1200, did it sell more, fewer or an equal number of television sets than in this space Shop A in the month of July? Show your working clearly.
- (b) Shop A had a promotion in the month of August where each television set was sold at 30% discount. Given that Shop A collected \$34 250 more than Shop B in August, find the amount of discount given by Shop A for each television set sold.



Do not write

Cedric used some sticks to form figures that follow a pattern. The first four figures are shown below.

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Do not write in this space

(a)	The table below show Complete the table fo	vs the number of sticks f or Figure 5.	or the first four figures.
	Figure number	Number of sticks	· · · ·
	1	3	
	2	7	
	3	10	-
	4	. 14	
	5		,[1]
(c)	Cedric used 2327 stic he form?	ks to form a figure. Wh	ich Figure number did
(C)	Cedric used 2327 stic he form?	ks to form a figure. Wh	ich Figure number did

Setters: Mdm Caroline Tay, Mrs Tina Tan, Mrs Norah Idil & Ms Lee Joo Lee Page 16

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SCHOOL : HERNRY PARK PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT : MATH

TERM : 2020 PRELIM

PAPER 1 BOOKLET A

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Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	1	3	1	2	1	3	1	3	3

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		•		
Q 11	Q12	Q13	Q14	Q15
2	2	1	2	4

PAPER 1 BOOKLET B

Q16)	5		
Q17)	AF and CD		
Q18)	1080 cm3		
Q19)	15%		
Q20)	8		
Q21)	a)A and C		
Q21)	b)		
Q22)	25cm		
Q23)	\$56		
Q24)	a)(5y + 13)		
	\$4		
Q25)	50		
Q26)	a)24		
	b)3		

Q27)	35°
Q28)	40
Q29)	40
Q30)	8cm

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PAPER 2

Q1)	10 + 10 + 15 = \$35		
Q2)	30/100 = 3/10 1/5 = 2/10	••	• • •
	1 - 2/10 - 3/10 = 5/10		
	$80 \times 2 = 160$		· ·
	$80 \times 2 = 160$		
	3/10 x 160 = 48	. •	
Q3)	½ h = 30min		
	$300 \div 12 = 25$		
	$300 \div 10 = 30$		
	30 x 30 + 25 x 30 = 1650		
Q4)	180 - 55 - 90 = 35		
	180 – 71 – 90 = 19		
	180 – 19 – 19 – 35 = 72°		
Q5)	22 ÷ 2 = 11		
	½ x 11 x 22 = 121		
	$22 \times 22 = 484$		
	484 + 121 = 605cm2		
Q6)	321 ÷ 60 = 5.35		
	5.35 x 100 = 535		
	535 + 100 = \$1605		
Q7)	a)40 x 1.21 = \$48.40		
	b)10312 – 48.4 = 54.72		
	54.72 ÷ 1.52 = 36		
	36 + 40 = 76m3		
Q8)	a)12p ÷4 = 3p		
/	-		
	3p x 4 + (p+3) x 2 = 12p + 2p + 6 = (14p + 6)cm b)3p = 3 x 6 = 18		
	½ x 18 x 18 = 162cm2		

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	Q9)	a)250 + 325 + 225 + 400 = 1200
		$1200 \div 4 = 300$
		b)325 – 250 = 75
		75/250 x 100% = 30%
	Q10)	10 x 3 = 30
		10 x 2 = 20
		$20 \div 4 = 5$
		$30 \div 5 = 6$
· · ·		6 x 1.99 + 5 x 0.99 = 16.89
		101.34÷16.89 = 6
•		6 x 20 = 120.
• •		
	Q11)	$20X - 170 = 2/5 \times (20X - 170) + (5X - 20)$
		$20X = 170 = 2/5 \times (25X - 190)$
		20X - 170 = 10X - 76
		20X = 10X + 94
		10X = 94
		$20X = 94 \times 2 = 188$
	Q12)	$(14 \times 43) + (5 \times 55) + (2 \times 32) = 941$
		$4750 \div 941 = 51$
		5 x 14 = 70
	012)	$2/5 \times 60 \times 450 \times 420 = 648000$
	Q13)	3/5 x 60 x 150 x 120 = 648000 648000 - 540000 = 108000
		$108000 \text{ cm}^3 = 108\ell$
		$108 \div 30 = 3.6\ell$
	-	100 . 30 - 3.04
	Q14)	a)80 ÷ 4 =20
		$20 \times 2 = 40$
		$20 \times 40 = 800$
		½ x 3.14 x 40 x 40 = 2512
		2512 – 800 = 1712cm2
		b)3.14 x 40 = 125.6
		125.6 + 20 + 20 = 165.6
		125.6 + 165.6 = 291.2cm
	Q15)	a)180 x 3 = 540
		$540 - 180 = 360^{\circ}$
		b)i)180 - 32 - 40 = 108
		180 - 108 = 72
		$Z = 180 - 72 - 72 = 36^{\circ}$

· · · ·

	ii) Not
	True
Q16)	a)156000 ÷ 1200 = 130
	More
	b)132000 + 34250 = 166250
	166250 ÷ 70 x 30 = 71250
	71250 ÷ 190 = \$375
Q17)	a)17
	b)3 + 4 = 7
	21 (7 x 11) = 98
	c)2327 ÷7 = 332 R3
	$332 \times 2 = 664$
	664 + 1 = 665

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