

HENRY PARK PRIMARY SCHOOL 2021 END-OF-YEAR EXAMINATION MATHEMATICS PRIMARY 5

PAPER 1 (BOOKLET A)

Name:	()	Parent's Signature
Class: Primary 5			
Class. Filliary 5			

Marks:

Paper 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.

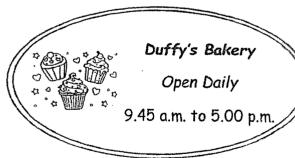
Shade your answers in the Optical Answer Sheet (OAS) provided.

You are not allowed to use a calculator.

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)

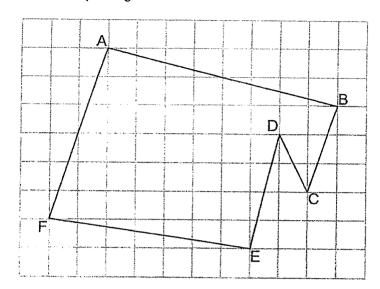
- 1 What is the value of the digit 9 in the number 493 572?
 - (1) 90
 - (2) 900
 - (3) 9000
 - (4) 90 000
- 2 Find the value of $80 \div 400$
 - (1) 0.02
 - (2) 0.2
 - (3) 5
 - (4) 50
- The opening hours of a bakery are shown below. How long is the bakery open each day?
 - (1) 6 h 15 min
 - (2) 6 h 45 min
 - (3) 7 h 15 min
 - (4) 7 h 45 min



Page 1

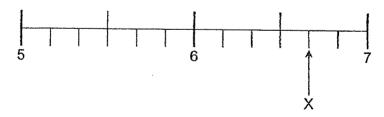
4	Jack ha	ad \$200. He spent 75% of his money. How much money did he spend?
	(1)	\$25
	(2)	\$50
	(3)	\$125
	(4)	\$150
5		ving away 90 cupcakes, Mrs Chua was left with $\frac{2}{5}$ of her cupcakes. any cupcakes did she have left?
	(1)	36
	(2)	60
	(3)	135
	(4)	225
6	Michell ratio of	le has 84 red and blue buttons in total. She has 12 blue buttons. What is the the number of blue buttons to the number of red buttons that Michelie has?
	(1)	1:6
	(2)	1:7
	(3)	6:1
	(4)	7:1
7		er can print 40 posters in 2 minutes. At this rate, how many posters can the print in an hour?
	(1)	1200
	(2)	2000
	(3)	2400
	(4)	4000

8 A figure is drawn on the square grid shown.



Which one of the following statements is true?

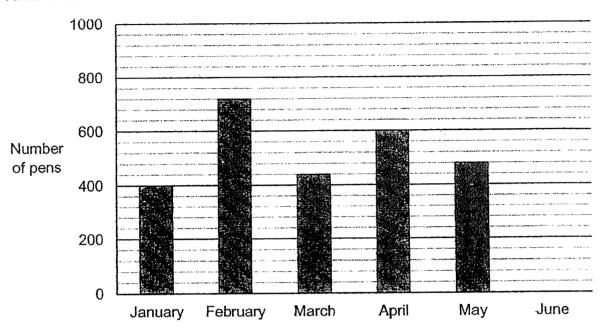
- (1) AF is perpendicular to AB
- (2) AF is perpendicular to EF
- (3) AF is parallel to ED
- (4) AF is parallel to BC
- 9 In the number line below, what is the mixed number represented by X?



- (1) $6\frac{2}{3}$
- (2) $6\frac{3}{4}$
- (3) $6\frac{3}{5}$
- (4) $6\frac{4}{5}$

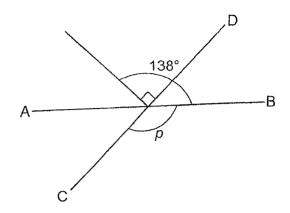
Use the information below to answer Questions 10 and 11.

The graph below shows the number of pens sold at a shop in each month from January to June. The bar for the month of June has not been drawn.



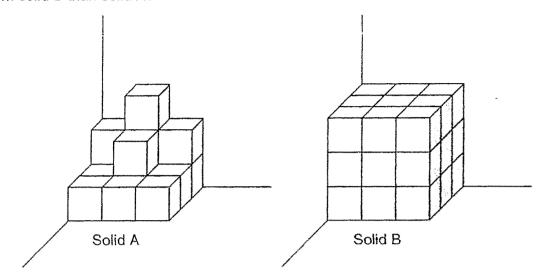
- The shop sold twice as many pens in June as May. How many pens did the shop sell in June?
 - (1) 240
 - (2) 840
 - (3) 880
 - (4) 960
- What is the average number of pens sold in each month from January to April?
 - (1) 520
 - (2) 528
 - (3) 540
 - (4) 600

12 In the figure, AB and CD are straight lines. Find $\angle p$.



- (1) 42°
- (2) 48°
- (3) 87°
- (4) 132°
- At a party, the ratio of the number of adults to the number of children is 7 : 3. Given that there are 56 adults, how many more adults than children were there?
 - (1) 24
 - (2) 32
 - (3) 60
 - (4) 80

The solids below are made up of unit cubes. How many more unit cubes are used to form solid B than solid A?



- (1) 12
- (2) 13
- (3) 14
- (4) 27
- Andy had a number of oranges. He could pack all his oranges equally into 25 boxes. If he packed 3 fewer oranges in each box, he would be able to pack all his oranges equally into 30 boxes. How many oranges did andy have altogether?
 - (1) 90
 - (2) 375
 - (3) 450
 - (4) 540



HENRY PARK PRIMARY SCHOOL 2021 END-OF-YEAR EXAMINATION MATHEMATICS PRIMARY 5

PAPER 1 (BOOKLET B)

Name:	()	
		•	
Class: Primary 5			25

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 For questions which require units, give your answers in the units stated.	provided. (5 marks)	Do not write in this space
16 Find the value of $\frac{3}{8} - \frac{1}{6}$		
Ans:	······································	
17 Find the value of 14.21 ÷ 7		
Ans:		
18 Find the value of 16 – 72 ÷ 8 + (21 – 15)		
Ana		
Ans:		

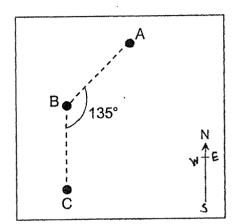
19	Write down all the common factors of 12 and 40.	Do not write in this space
	Ans:	
20	What is the missing number in the box? 15: 45 = 4: ?	
	Ans:	

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

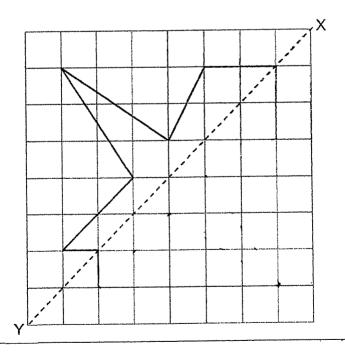
(20 marks)

In the figure, A, B and C are three points on a map. Point B is north of point C. In what direction is point B from point A?



Ans: (a)

(b) Complete the drawing of the symmetric figure with XY as the fine of symmetry.



Page 3

22	A car needs 7 litres of petrol to travel a distance of 56 km. At this rate, how much petrol does the car need to travel a distance of 144 km?	Do not write in this space
	Ans:litres	
23	Express $\frac{5}{9}$ as a decimal. Give your answer correct to 2 decimal places.	
	Ans:	

24	Find the area of the shaded triar	ngle.	Do not write in this space
	15 cm	10 cm	
	3 cm		
		Ans:cm ²	
25	The solid below is made up of 6	cubes.	
		Side View	
	Front View		
	Draw the top view and the front	view of the solid on the grid below.	
	Front View	Side View	

26	In the figure, ABK and PQK are equilateral triangles. Find ∠BKQ.	Do not write in this space
	Ans:°	
27	The figure below is made up of 2 rectangles. The ratio of the area of the large rectangle to that of the small rectangle is 5 : 3. Find the area of the unshaded part of the figure. 10 cm 6 cm	

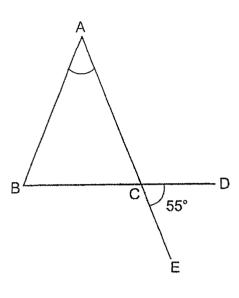
Ans:

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cm²

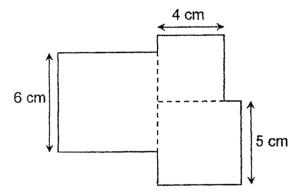
In the figure, ABC is an isosceles triangle where AB = AC. ACE and BCD are straight lines. Given that $\angle DCE = 55^{\circ}$, find $\angle BAC$.

Do not write in this space



Ans: _____°

The figure below is made up of 3 squares. The sides of the squares measure 4 cm, 5 cm and 6 cm. Find the perimeter of the figure.



Ans: _____cm

Page 7

30	$\frac{5}{9}$ of the fruits in a basket are apples and the rest are pears. $\frac{3}{10}$ of the	Do not write in this space
	apples are green apples. There are 21 green apples. How many fruits are	
	there in the basket altogether?	Andrews on the second
		reprinted to the second
		~
	Ans:	

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HENRY PARK PRIMARY SCHOOL 2021 END-OF-YEAR EXAMINATION MATHEMATICS PRIMARY 5

PAPER 2

Name:()	
Class: Primary 50	/ 55

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.

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.

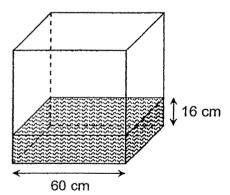
Do not write in this space

(10 marks)

Amy has some blue, yellow and orange marbles. $\frac{1}{6}$ of her marbles are blue. $\frac{1}{3}$ of her remaining marbles are yellow and the rest are orange. What fraction of her marbles are orange?

Ans:

A cubical container is filled with water to a height of 16 cm as shown below. How much more water is needed to fill the container to the brim? Express your answer in litres.



ns: ______litres

Page 1

3	In the figure, ABCD is a rectangle where AC and BD are straight lines. Given that \angle AEB = 130° and AE = EC = DE = EB, find \angle ADB.	Do not write in this space
	A 130° C	
	Ans:°	
4	Li Wen used some toothpicks and 35 stars to form a figure that follows a repeated pattern as shown below. How many toothpicks did he use to form the figure?	
	*	
	Ans:	

5	Jane, Kelly and Lina had a sum of money. Jane and Kelly had \$212 altogether. Kelly and Lina had \$334 altogether. The amount that the three girls had in total was 6 times the amount that Kelly had. How much did Kelly have?	Do not write in this space
	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 the brackets [] at the end of each question or part-question.

Do not write in this space

(45 marks)

6 The table below shows the parking charges at a carpark.

Parking Charges		
For the first hour \$1.70		
For every additional $\frac{1}{2}$ h	\$0.90	

- (a) Mrs Tan paid \$3.50 for her parking charges. What was the longest possible duration she could have parked her car?
- (b) Mrs Lee parked her car from 9 a.m. to 1.30 p.m. How much did she pay for her parking charges?

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

Page 4

7	85 van	baked a total of 425 chocolate and valilla cupcakes, the ratio of the number of vanilla cupcakes left was 4:1.	nilla cupcakes. After she sold of chocolate cupcakes to the	Do not write in this space
	(a)	How many vanilla cupcakes did Elain	e have left?	
	(b)	What percentage of the cupcakes that cupcakes?	at she baked were chocolate	-
				Course to the course of the co
		Ans: (a)	[2]	
		(b)	[2]	

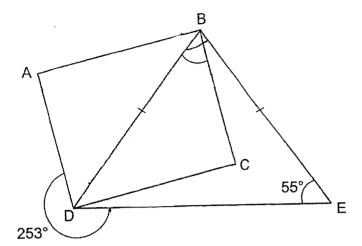
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Page 5

8	Ivan has some black and white marbles. The total mass of all his marbles is 231 g. He has 3 more white than black marbles. The average mass of the black marbles is 8 g. The average mass of the white marbles is 9 g. How many marbles does Ivan have altogether?	Do not write in this space
	Ans:[3]	

In the figure below, ABCD is a rectangle and BDE is an isosceles triangle. Given that BD = BE, \angle BED = 55° and \angle ADE = 253°, find \angle DBC.

Do not write in this space

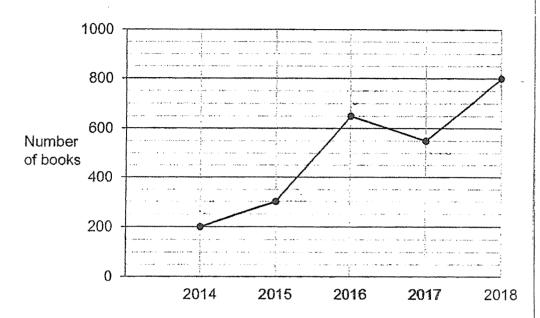


Ans: _____[3]

Page 7

The graph below shows the number of books loaned out each year by a school library from 2014 to 2018.

Do not write in this space



The average number of books loaned out each year by the school library from 2014 to 2020 is 450. Find the possible numbers of books loaned out in 2019 and 2020%.

Ans:	and	[3]	
Page 8	(Go	o on to the next page)	

11 Kenji had some money. He spent $\frac{1}{6}$ of his money on food and \$180 on transport. He spent $\frac{2}{5}$ of the remaining money on a new watch. In the end, he had \$2730 left.

Do not write in this space

- (a) What was the cost of the new watch?
- (b) How much money did Kenji spend on food?

Ans: (a)	[2]	
(b)	[3]	

Page 9

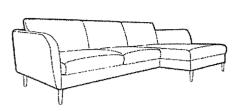
12	There are some \$2 and \$5 notes in a box. There are thrice as many \$2 notes as \$5 notes. Given that the total amount of money in the box is \$2255, how many \$2 notes are there in the box?		Do not write in this space
		-	
	Ans:[3	3]	

At a shop, sofa sets and dining chairs were sold at the prices shown.

Sofa Sets

Dining Chairs

Do not write in this space



Usual Price: \$1978 each



Usual Price: \$65 each

- (a) Mrs Ang bought a sofa set at a discount of 35%. How much was the discount?
- (b) Mr Abdul bought some dining chairs at a discount of 20%. He paid \$416 in total. How many dining chairs did he buy?

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

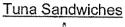
(b) _____[2]

Page 11

Salmon Sandwiches



\$9.60 each





\$6.40 each

- (a) Yan Ting spent \$464 on some salmon and tuna sandwiches. She bought 15 more salmon than tuna sandwiches. How many tuna sandwiches did Yan Ting buy?
- (b) Emily spent an equal amount of money on the salmon and tuna sandwiches. What fraction of the sandwiches Emily bought were salmon sandwiches?

Ans: (a)	[3]	
(b)	 [2]	

Page 12

Peter had a square piece of paper. He cut it along the dotted lines as shown in Figure 1 to get one small square of side 2 cm and four identical right-angled triangles. One such triangle is shown in Figure 2. Find the perimeter of the square piece of paper in Figure 1 before it was cut.

Do not write in this space

Figure 1

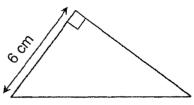


Figure 2

Page 13

16	At first, Foo, Garrett and Hong had the same amount of money.	Do not write in this space
	After Hong spent some of his money, Foo spent $\frac{2}{5}$ of his money and Garrett	
	spent $\frac{3}{4}$ of his money, Foo had \$238 more than Garrett.	
	In the end, the total amount of money the three boys had left was \$703.	
	How much money did Hong spend?	
	Ans:[4]	

17	The firs	t four	figuros	of a	nattern	ara	ehown	halow
1 (1116 1112	LIUUI	ngures	u a	pattern	aic	PHOMIL	DEIOW.

Do not write in this space

A O A A O A	AAOAA AAOAA OOOOO		
Figure 1	Figure 2	Figure 3	Figure 4

The table below shows the number of circles and triangles used in each figure.

Figure Number	Figure 1	Figure 2	Figure 3	Figure 4	Figure 5
Number of circles	5	8	11	14	
Number of triangles	4	12	24	40	
	Lancara anti-	L		A	[1]

- (a) Fill in the table for Figure 5.
- (b) How many circles are there in Figure 39?
- (c) How many triangles are there in Figure 60?

Ans: (b)	[2]	
(c).	[2]	

Setters: Mrs Elaine Chua and Mrs Chia Seow Wei

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ANSWER KEY

YEAR : 2021

LEVEL : PRIMARY 5

SCHOOL : HENRY PARK PRIMARY SCHOOL

SUBJECT: MATHEMATICS

TERM : SA2

BOOKLET A (PAPER 1)

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

BOOKLET B (PAPER 1)

Q16	$\frac{3\times6}{8\times6} - \frac{1\times8}{6\times8} = \frac{5}{24}$	Q17	14.21 ÷ 7 = 2.03
Q18	16 - 72 ÷ 8 + (21 - 15) = 16 - 72 ÷ 8 + 6 = 16 - 9 + 6 = 7 + 6 = 13	Q19	12: 1, 2, 4 40: 1, 2, 4
Q20	3×4 = 12	Q21	(a) South West (b)
Q22	56 ÷ 7 = 8 1ℓ = 8km 144 ÷ 8 = 18 litres	Q23	5 ÷ 9 = 0.555 0.555= 0.56
Q24	$\frac{1}{2} \times 12 \times 10 = 60 \text{cm}^2$	Q25	Front View Side View

Q26	360 - 200 - 60 - 60 = 40°	Q27	10 × 6 = 60
			60 ÷ 5 = 12
			12 × 2 = 24cm ²
Q28	180 – 110 = 70°	Q29	$(5+4) + (6+5) \times 2 = 40$ cm
Q30	21 ÷ 3 = 7		
	7 × 18 = 126		

PAPER 2

Q1	$\frac{10}{10} \rightarrow \frac{5}{0}$	Q2	$60 \times 60 \times 16 = 57600$
Q.	$\frac{1}{18} = \frac{1}{9}$		216000 - 576000 = 158400
Q3	360 - 130 - 130 = 100	Q4	35 – 1 = 34
QJ	100 ÷ 2 = 50		34 × 5 = 170
	180 - 130 = 50		170 + 1 = 171
	50 ÷ 2 = 25		
	90 - 25 = 65°		
Q5	334 - 212 = 122	Q6	(a) 3.50 – 1.70 = 1.80
	546 ÷ 7 = \$78		1.80 ÷ 0.90 = 2 hours
	- 10 10 10 10 10 10 10 10 10 10 10 10 10		(b) \$8
Q7	(a) 425 – 85 = 340	Q8	9 × 3 = 27
	340 ÷ 5 = 68		231 – 27 = 204
	(b) 4 × 68 = 272		9 + 8 = 17
	$\frac{272}{2} = \frac{64}{2}$		204 ÷ 17 = 12
	425 100		12 + 12 + 13 = 27
00	= 64% 180 - 55 - 55 = 70	Q10	450 × 7 = 3150
Q9	360 - 253 = 107	Q10	200 + 300 + 650 + 550 + 800
	107 – 90 = 17		= 2500
	107 – 55 = 52		answer: 300 and 350
	107 - 52 - 17 = 38		
	180 - 90 - 38 = 52°		
Q11		Q12	5+2+2+2=11
	910 × 2 = \$1820		2255 ÷ 11 = 205
	(b) (1820 + 2730 + 180) ÷ 5 = \$946		3 × 205 = 615
Q13	(a) 1978 ÷ 100 = 19.78	Q14	(a) 9.60 × 15 = 144
•	19.78 × 65 = 1285.70		464 – 144 = 320
	1978 – 1285.70 = \$692.30		320 ÷ (6.40 + 9.60) = 20
	(b) 65 ÷ 100 = 0.65		(b) 2 × 9.60 = 19.2
	0.65 × 80 = 52		3 × 6.4 = 19.2
	416 ÷ 52 = 8		$3+2=5=\frac{2}{5}$
Q15	40cm	Q16	\$555
Q17	(a) 17, 60		
	(b) 39 + 2 = 41		

41 + 39 = 119	
(c) $60 \times 61 = 3660$	
3660 × 2 = 7320	