

NANYANG PRIMARY SCHOOL

END-OF-YEAR EXAMINATION 2022

PRIMARY 5

MATHEMATICS PAPER 1 (BOOKLET A)

Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Answer Sheet (OAS)

INSTRUCTIONS TO PUPILS

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 5. The use of calculators is NOT allowed.

1.

Name: _____ ()

Class: Primary 5 ()

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 on the Optical Answer Sheet. (20 marks)

							•		
7	in //	42.896,	which digit is	in the hu	ndredths	place?			
	(1)	6							
	(2)	7				• .		· . · ·	:
	(3)	8							·
	(4)	9							
	•								

BP~570

2 Which of the following is the same as 20 mi?

- (1) 21
- (2) 0.2 **č**
- (3) 0.02 ł
- (4) 0.002 t

3 There are 30 chocolate cookies, 18 raisin cookies and 48 butter cookies. What is the ratio of the number of chocolate cookies to the number of raisin cookies to the number of butter cookies?

1216 Commission Constant Products of the

- (1) 5:3:8
- (2) 3:5:8
- (3) 5:3:6
- (4) 6:3:8
- 4 Sindri worked for 30 hours. He was paid \$600. How much was he paid per hour?

à

- (1) \$5
- (2) \$2
- (3) \$20
- (4) \$50

••

BP~572

Shahul had \$2500. He spent \$2000. What percentage of his money did he spend?

- (1) 20%
- (2) 25%

5

- (3) 80%
- (4) 125%
- 6 There were 960 people in a concert. 60% of them were adults. How many adults were there at the concert?
 - (1) 384
 - (2) 576
 - (3) 588
 - (4) 768

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Which line in the square grid is perpendicular to AB?

(1) DE

7

- (2) EF
- (3) CD
- (4) FG

4

..





(1) 35 cm²

8

- (2) 70 cm²
- (3) 140 cm²
- (4) 280 cm²

.

9 "Which of the following triangles is an equilateral triangle?



5

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10 The solid below is formed by unit cubes. How many unit cubes are there?



11

Which one of the following fractions is closest to 2?



BP~576

Jasmine scored an average of 70 marks for a Mathematics test and a Science test. She scored 68 marks for the Mathematics test. How many marks did she score for the Science test?

(1) 66
(2) 69
(3) 72
(4) 138

12

- 13 Mandy had 408 t of milk. She poured all the milk into 400 bottles. Each bottle contained the same amount of milk. How many litres of milk did each bottle contain?
 - (1) 1.02
 - (2) 1.2
 - (3) 10.2
 - (4) 12

.....

14

Noah bought $\frac{7}{8}$ kg of grapes. He ate $\frac{1}{3}$ of it. How many kilograms of grapes had he left?

.....

(1) $\frac{5}{12}$ (2) $\frac{7}{12}$ (3) $\frac{7}{24}$ (4) $\frac{13}{24}$

- 15 Mrs Tan cooks 0.35 kg of rice every day. How many kilograms of rice does she cook in 60 days?
 - (1) 2.1
 - (2) 3.5
 - (3) 18
 - (4) 21

BP~578

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NANYANG PRIMARY SCHOOL

END-OF-YEAR EXAMINATION

2022

PRIMARY 5

MATHEMATICS PAPER 1 (BOOKLET B)

Total Duration for Booklets A and B: 1 hour

INSTRUCTIONS TO PUPILS

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Write your answers in this booklet.
- 5. The use of calculators is **NOT** allowed.

Name: _____(

)

Class: Primary 5 (

	Booklet I	3	/ 25
Please sign and return the examination paper should be raised at the same time when returning		day. An	y queries

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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. (5 marks)

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16 Find the value of $14 + (30 - 18) \div 6 \times 2$.

Ans: _____

17 Find the value of 923 ÷ 4. Express your answer as a decimal.

Ans:

18 What is the missing number in the box?

4 : 7 = 32 :

Ans: _____



20 In the figure below, QRS is a triangle. \angle QSR = 10° and \angle QRS = 25°. Find \angle SQR.





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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. (20 marks)

21 In the figure below, WXYZ is a trapezium. WX // ZY, \angle ZWY = 95° and \angle WZY = 65°. Find \angle YWX.



Ans: ______°

22 Mrs Tan had some money at first. She spent $\frac{2}{3}$ of her money on a watch and $\frac{1}{5}$ of her money on food. She had \$100 left. How much did she have at first?

Ans: \$_____



Ans:		cm ³	
------	--	-----------------	--

24 Find the average cost of the 3 items as shown below.







\$29.50



\$42.50

Ans: \$_____4

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25 The mass of a book is 3.08 kg. Find the total mass of 6 such books.

Ans: _____ kg

26 The drink stall sold 2651 packet drinks in January. The number of packet drinks sold in February was 44 more than the number of packet drinks sold in January. How many packet drinks were sold in February? Round your answer to the nearest ten.

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Ans:

27 Mrs Singh deposits \$15 000 in the bank for one year. The bank offers an interest of 4% per year. How much will Mrs Singh have in her bank at the end of one year?

Ans: \$_____

Nana stacked 10 unit cubes and glued them together to form the solid below.

28



Draw the top view and the side view of the solid on the grids below.

		Ţ	ор	Vie	W					Si	de	Vie	W		
٠	٠	٠	٠	٠	•	•	٠	•		٠	•	٠	٠	٠	
٠	٠	٠	+	٠	٠	٠	•	•	•	٠	•	٠	٠	٠	
•	٠	٠	٠	٠		٠	٠	•	٠	٠	٠	٠	٠	٠	
٠	٠	•	٠	٠	٠	٠	•	•	٠	4	• •	٠	٠	٠	
•	٠	٠	٠	•	٠	٠	٠	•	٠	٠	٠	٠	٠	٠	
٠	•	•	٠		٠	*	٠	•	٠	٠	٠	٠	٠	٠	
*	٠	٠	•	٠	•	٠	۲	•	٠	•	٠	•	•	٠	
٠	٠	٠	•	٠	+	٠	٠	•	•	٠	٠	٠	٠	٠	
*	٠	٠	•	•	٠	٠	•	•	٠	٠	•	٠	٠	٠	

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29 In the figure below, WXYZ is a rectangle. The area of rectangle WXYZ is 552 cm². C and D are points on WX. E and F are points on ZY. Find the total area of the shaded parts.

والإيدار والمتحد الجمادات



30 The average mass of Mei Mei and her cousins was 45 kg. Mei Mei's mass was 53 kg. The average mass of her cousins was 43 kg. How many cousins did Mei Mei have?

.

Ans: ____

End of Paper



NANYANG PRIMARY SCHOOL

END-OF-YEAR EXAMINATION

2022

PRIMARY 5

MATHEMATICS PAPER 2

Duration: 1 hour 30 minutes

INSTRUCTIONS TO PUPILS

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Write your answers in this booklet.
- 5. The use of an approved calculator is allowed.

Name: _____ (

Class: Primary 5 ()

Parent's Signature: _____

Booklet A	/ 20
Booklet B	· / 25
Paper 2	/ 55
Total	/ 100

)

Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.

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. (10 marks)

1 Sarah spent $1\frac{1}{4}$ h in the morning to complete her Science project. She spent $1\frac{7}{10}$ h in the afternoon to complete her Chinese project. What was the total amount of time she spent on completing both her Science and Chinese projects?

Ans: ______ h

2 The side of a square is $6\frac{2}{5}$ cm. What is the perimeter of the square?

Ans: _____ cm

1

The table below shows the number of books sold in Everygreen bookshop from January to May.

3

January	February	March	April	May
88	75	82	69	71

What was the average number of books sold from January to May?

Ans: _____

4 In the figure below, ABC is a right-angled triangle. D is a point on AC. $\angle BAC = 23^\circ$, $\angle ABC = 90^\circ$ and BC = BD. Find $\angle BDA$.



	Ans:	0
	· · · · · · · · · · · · · · · · · · ·	
2		
4		

Junie bought a book from ABC Bookshop. She had forgotten how much she paid for the book. However, she remembered that the book cost \$30 when rounded to the nearest dollar.

She remembered the following about the cost of the book:

- It showed 2 decimal places.
- All the digits are different.

5

- The digits she saw in the tenths and hundredths places are 1, 4 or 5.

.

How many possible costs of the book are there?



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 brackets [] at the end of each question or part-question. (45 marks)

6

* Anna and James had the same amount of money at first. Anna bought some pens and had \$4.30 left. James wanted to buy highlighters only. The number of highlighters that James wanted to buy was the same as the number of pens Anna bought. However, he was short of \$8.70. Each pen cost \$1.20 and each highlighter cost \$2.50. How much money did Anna have at first?

-:;**`**

Ans:

4

7 The Art Museum offers tickets on discount as shown in the flyer below.



(a) Mr Lim bought 1 ticket. How much did he pay?

Ans: (a) _____ [1]

(b) Mr Tan bought 3 tickets. What was the least amount of money he paid?

Ans: (b) _____ [2]



9 Chin Lee is 12 years older than Ming Shi. In 5 years' time, the ratio of Ming Shi's age to Chin Lee's age will be 5 : 9. How old is Chin Lee now?

	Ans:	 [3]
	6	

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10 The average of 8 numbers is 45. When 2 of the numbers are removed, the average of the remaining numbers is 32. The difference between the 2 numbers that are removed is 6.

(a) Find the sum of the remaining numbers.

Ans: (a) [1]

(b) What are the 2 numbers that are removed?

...

Ans: (b) _____, ____[2]

11 Farhana baked some cupcakes. $\frac{1}{5}$ of the cupcakes were chocolate cupcakes and the rest were banana cupcakes. She sold $\frac{4}{7}$ of the chocolate cupcakes and 51 banana cupcakes. She then had $\frac{2}{5}$ of the cupcakes left.

(a) How many chocolate cupcakes did she sell?



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12 A tank measuring 40 cm by 14 cm by 18 cm was $\frac{3}{4}$ -filled with water as shown below. All the water in the tank was poured into a cubical container of sides 20 cm.



(a) How much water was in the tank at first?



(b) How many more litres of water are needed to fill the cubical container to the brim?



Kean Yew had 7200 shuttlecocks. He packed the shuttlecocks into as many bags of 7 shuttlecocks as possible and had some shuttlecocks left unpacked. He sold all his shuttlecocks and received \$3608. Each bag of shuttlecocks was sold at \$3.50.

(a) How many shuttlecocks were left unpacked?

13

Ans: (a) [1]

(b) Each of the shuttlecocks left unpacked was sold at the same price. How much did each of the shuttlecocks left unpacked was sold at?

Ans: (b) _____ [3]

14 The figure below shows a right-angled triangle AFG and a square ABCD overlapping each other. ADG is a straight line. $\angle AGF = 90^{\circ}$, DC = GF and EC = 7 cm. The length of AB is twice the length of EC. Triangle AFG has the same area as square ABCD.



(a) What is the area of square ABCD?

Ans: (a) _____[2]

(b) Find the shaded area DEFG.

Ans: (b)_____ [2]



12

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- 16 Cindy had a piece of ribbon. She used $\frac{2}{7}$ of the ribbon to make 15 small identical bows and 7 large identical bows. The length of ribbon used for 3 large bows was the same as the length of ribbon used for 5 small bows.
 - (a) How many large bows can she make with the same length of ribbon used for 15 small bows?

Ans: (a) _____ [1]

(b) How many small bows can she make with $\frac{3}{10}$ of the remaining ribbon?

Ans: (b) _____ [4]

Hon Lee formed some figures using squares and circles as shown below.

17



Figure	1	2	3	<u>4</u> ·
Number of circles	1	4	9	16
Number of squares	2	6	12	20
Total number of circles and squares	3	10	21	36

(a) Find the number of circles in Figure 8.



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(b) Which figure in the pattern has 930 squares?

(b) Figure _____ [2]

(c) Find the total number of circles and squares in Figure 15.

(c) _____ [2]

End of Paper



(3)



(1)	20%	<u>2000 20</u> 2500 25
(2)	25%	= <u>90</u> 100
(3)	80%	= 80 %
(4)	125%	
		(3)

6 There were 950 people in a concert. 80% of them were adults. How many solutis were there at the concert?

(1)	384	
(2)	576	100 th 🔿 940
(3)	588	$1\% \rightarrow 960 \div 100$
(1)	768	= q.6
		60 % → 9·6 ×60
		= 9-6 ×10×6
		≈ 96×6

7 Which fins in the square grid is perpendicular to AB?

2





(4) FG

(1)

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In the figure below, ABCD is a ractangle. E is a point on BC. BE is had the length of BC, DC = 20 cm and AD = 14 cm. Find the area of viangle BDE. 8





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24 (2) difference -> t (3) 1 <mark>1</mark> atterna -> 5 (4) 7 (4) difference -> to

s

Jaantine scored an everage of 70 marks for a Mathematics test and a Science test. She scored 68 marks for the Mathematics test. How many marks did she score for the Science test? 12

		Total -> 70 x2
{1}	66	= 140
(Z)	69	140 - 68 = 72
(3)	72	
(4)	138	(3)

9

Mandy had 408 I of milk. She poured all the milk into 400 bottles. Each bottle contained the same amount of milk. How many litres of milk 13 did each bottle contain?

		408 ÷ 400	= 408 = 4 = 100
(1)	1.02		= 100 ÷ 100
(2)	1.2		-1.02
(3)	10.2		
{4}	12		(1)

7

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Noah bought $\frac{7}{8}$ kg of grapes. He als $\frac{1}{3}$ of it. How many kilograms 14 of grapes had he left?



15 Mns Tan cooks 0.35 kg of rice every day. How many kilograme of rice does she cook in 60 days?

D-35 ×60 = D-35 × 10 × 6 (1) 2.1 = 3.5 ×6 (2) 3.5 = 21 (3) 18 (4) (4) 21 3.5 <u>x 6</u> <u>21 · D</u>

192

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29 In the figure below, WXYZ is a rectangle. The area of rectangle WXYZ is 552 cm². C and D are points on VX. E and F are points on ZY. Find the total area of the shaded parts.



Ans: _____ 276 an2 -

30 The average mass of Mei Mei and her cousins was 45 kg. Mei Mei's - mees was 63-kg... The average mass of her cousins was 43 kg... Howmany cousins did Mei Mei have?

> 53-45=8 45-43=2 8 ±2 =4 (ans)

505: 4

End of Paper

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5

7 The Art Museum offers tickets on discount as shown in the fiver below.

ART MUSEUM TICKET SALE Usual price: \$10 per ticket Buy 1 bicket at 10% discount Buy 2 or more sickets at 20% discount

(a) Mr Lim bought t sicket. How much did he pay?

10 × \$16 = \$14.40 (ans)

Ans: (a) \$14.40 [1]

(b) Mr Tan bought 3 lickets. What was the least amount of money he paid?

00-20= 80

80 x \$16 = \$17.80

\$13.80 × 3 = \$38.40 (ani)

Ans: (b) \$38.40 [2]

.

10 The average of 6 numbers is 45. When 2 of the numbers are removed, the average of the remaining numbers is 32. The difference between the 2 numbers that are removed is 8.

5

(a) Find the sum of the remaining numbers.

8-2=6 33%6 = 192 (ans)

Ans. (a) [7] [1]

(b) What are the 2 numbers that are removed?

45 × 8 = 360

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360 - 192 = 162 - 3 sum of the 2 numbers nemeved. 162 - 6 = 162 162 + 2 + 81 (ans) 81 + 6 = 87 (ans)

Ans. (b) <u>21 [7</u> [2]

8 in the square grid below, JK and JN are straight lines.

(a) JK and JN form two sides of a square JKL N. Complete the drawing of the square JKL N. [1]

(b) JK and JN form two sides of a <u>trapeztum JKNMN</u>. KM is parallel to JN. Complete the trawing of trapeztum JKNM such that the area of JKNMN is 1¹/₂ times of the area of JKNN. (2)



9 Chin Lee is 12 years older than Ming Shi, in § years' time, the ratio of Ming Shi's age to Chin Lee's age will be \$ 9. How old is Chin Lee now?

9-5=4		
4 units = 12		
i tani÷ = 12 ÷ 24		
≈ 3		
9×3×9 17 -		
Ans:	<u></u>	[3]

11 Famana baked some cupcakes. $\frac{1}{5}$ of the cupcakes were chocolate cupcakes and the rest wave bahaha cupcakes. She sold $\frac{4}{7}$ of the bod chocolate cupcakes and 51 bahaha cupcakes. She then had $\frac{2}{5}$ of the cupcakes ieft.

(a) How many chocolate cupcakes did she sell?

3036 18ft	irti	50 H
£	35 %	rits altzether
Ę	$\frac{2}{5} = \frac{14}{36} \rightarrow \frac{1}{26} + 10$	8)

14-3=11-3 bananas left



(b) How many cupcakes dk! she bake in as?

7 ×5 = 35 35 units = 3 x 35

2 165 (ors)

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Ans (5) 105 [2]

BP~609



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- 18 Clindy had a piece of ribbon. She used ²/₇ of the ribbon to make 15 small identical bows and 7 large identical bows. The length of ribbon used for 3 large bows was the same as the length of ribbon used for 5 small bows.
- (a) How many large bows can she make with the same length of ribbon used for 15 small bows?



17 Hon Lee tormed some figures using equares and circles as shown below.

'n

Figure	1	2	3	4
Number of circles	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	4	9 3×3±9	18 414
Number of squares	2	8 372	12 4×3	20 5×4
Total number of cincles and squares	з	10	21	38

(a) Find the number of circles in Figure 8.

87 8 = 64 (ani)

14

Ans: (a) 64 [1]

J (b) Which ligure in the pattern has 930 squeres?

30 x 31 = 930 (anl)

(b) Figure 30 [2]

(c) Find the total number of circles and equares in Figure 15.

07CP → 15×15 = 225 squeres → 15×16 = 240 Total → 225 + 240 = 465 (ans)

(c) <u>465</u> [2]

End of Paper

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END