

NAN HUA PRIMARY SCHOOL NON-WEIGHTED ASSESSMENT 2 2024 PRIMARY 6

MATHEMATICS PAPER 1 (BOOKLET A)

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Shade your answers in the Optical Answer Sheet (OAS) provided.

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6. The use of calculators is <u>NOT</u> allowed.

 Name : ______ (
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 Form Class : 6_____
 Teaching Group: 6M_____

Date : 7 May 2024

This booklet consists of 7 printed pages and 1 blank page.

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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 on the Optical Answer Sheet.

(20 marks)

- 1 Which of the following is thirty-eight thousand and thirty in numerals?
 - (1) 3830
 - (2) 38 030
 - (3) 38 300
 - (4) 380 030

2 What are the common factors of 18 and 81?

- (1) 3 and 6
- (2) 3 and 9
- (3) 6 and 18
- (4) 9 and 18

I am a multiple of 6 and a factor of 24. What number am I?

- (1) 8 .
 - (2) 2

3

- (3) 3
- (4) 12

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8.03 8.3 8 Largest Smallest (1) 8 8.03 8.3 (2) 8.3 8 8.03 (3) 8.3 8.03 8 (4) 8.03 8.3 8 $7 + \frac{7}{10} + \frac{7}{1000} =$ ______ 5 (1) 7.07 (2) 7.077 (3) 7.707 (4) 7.77 • . • • • · · · Express $8\frac{3}{50}$ as a decimal. 6 (1) 8.03

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(2) 8.06

(4) 8.6

8.3

(3)

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Arrange the following numbers from the largest to the smallest.

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Which figure below has only one line of symmetry?



8 Given that the base of triangle ABC is BC, find the height that is related to the base BC. A



7

What is the missing number in the box?

$$\frac{8}{12} = \frac{1}{9}$$

- (1) 6
- (2) 5
- (3) 3
- (4) 4

10 Mary bought a pizza. She ate $\frac{1}{4}$ of the pizza and her brother ate $\frac{1}{12}$ of the pizza. What fraction of the pizza was left?

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

11 Ken used $\frac{4}{7}$ of his money to buy 8 donuts and 4 pies. The cost of 4 donuts was the same as that of 2 pies. What was the most number of pies that Ken could buy with the amount of money he had left?

- (1) 8
- (2) 2
- (3) 6
- (4) 4

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6

12

Zach kept his red and blue marbles in two boxes.

The ratio of the number of red marbles to blue marbles in the first box was 1:5 and it was 1:2 in the second box. The two boxes contained the same number of marbles.

What fraction of Zach's marbles were red marbles?



13 ⁴/₉ of the people at a carnival were adults and the rest were children. The number of boys was twice the number of girls. What was the ratio of the number of boys to the number of adults?
(1) 1 : 2
(2) 2 : 1
(3) 6 : 5

(4) 5:6

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Container	Number of	Percentage of markers
	markers	which are blue
A	200	6%
В	400	12%

What percentage of the total number of markers in container A and B are blue?

(1) 6%

- (2) 10%
- (3) 12%
- (4) 18%

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The figure shows part of a circle. Find the perimeter of the following figure. Leave your answer in terms of π .

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- (1) $(6\pi + 16)$ cm
- (2) $(12\pi + 16)$ cm
- (3) $(16\pi + 16)$ cm
- (4) $(48\pi + 16)$ cm



NAN HUA PRIMARY SCHOOL NON-WEIGHTED ASSESSMENT 2 2024 PRIMARY SIX

MATHEMATICS

PAPER 1 (BOOKLET B)

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Use dark blue or black ball point pen to write your answers in the space provided for each question.
- 6. Do not use correction tape/ fluid/ highlighter.
- 7. The use of calculators is NOT allowed.

Marks Obtained

ction	Maximum Marks	Actual Marks	
Booklet A	20		
Booklet B	25		
iper 2	55		
otal	100		
	Ction Booklet A Booklet B aper 2 Total	ActionMaximum MarksBooklet A20Booklet B25aper 255Total100	

Name : _____

Form Class : 6_____

Teaching Group: 6M____

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Date : 7 May 2024

This booklet consists of 8 printed pages.

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) 16 Find the value of $7.5 \div 30$. Ans : Write down the common multiple of 6 and 8 that is smaller than 40. 17 Please do not write in the margin. Ans: Find the value of $12 \times \frac{8}{9}$. Leave your answer as a mixed number in its simplest 18 form. Ans: _



(Go on to the next page)

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For question which require units, give your answers in the units stated. (20 marks)





(Go on to the next page)

26 The figure below is made up of an equilateral triangle ABC and a right-angled triangle, CDE. ACE and BCD are straight lines. Find ∠CDE.





(Go on to the next page)

30 In the figure below, ABCD is a rhombus. \triangle CDE is an isosceles triangle. \angle BCE = 145°.

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Each of the statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (\checkmark) to indicate your answer.

Statement	True	False	Not possible to tell]	
∠BAD + ∠DEC = 145°				-	
∠ABC = 125°			na an ann an an an an an ann an ann an a		
		L	· · . · .	-	

Please do not write in the margin





NAN HUA PRIMARY SCHOOL NON-WEIGHTED ASSESSMENT 2 2024 PRIMARY SIX

MATHEMATICS PAPER 2

Time: 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions,
- 5. Use dark blue or black ball point pen to write your answers in the space provided for each question.
- 6. Do not use correction tape/ fluid/ highlighter.
- 7. The use of calculators is allowed.

Marks Obtained

Section	Maximum Marks	Actual Marks	
Paper 2	55	÷	

Name :	()
Form Class : 6	Teaching Group: 6M	

Date : 7 May 2024

This booklet consists of 15 printed pages and 1 blank page.

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the space provided. For questions which require units, give your answers in the units stated. (10 marks)

1 The rate for parcel postage at a post office is shown in the table below.

Mass step not over	100 g	250 g	500 g	Every additional 100 g
Postage	\$2.50	\$3.90	\$5.20	\$1

Alice posted a parcel that weighed 660g. How much did she pay for the postage?

The box below is filled with some 1-cm cubes. The box is a cube. What is the volume of the box?



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Ans:

Ans: \$

Please do not write in the margin.

cm³

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	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	Bala had some muffins for sale. In the morning, he sold $\frac{1}{3}$ of the muffins.						
		In the afternoon, he sold $\frac{2}{5}$ of the remaining muffins. After that, there were						
		42 muffins left. How many muffins did Bala have at first?						
		Ans: [3]						
	7	Ivan and Helen shared a sum of money in the ratio of 3 : 2. When Ivan gave \$21 to Helen, the ratio of Ivan's amount of money to Helen's amount of money became 2 : 13. How much money did Ivan have at first?						
99								
· · ·		Ans:[3]						
		(Go on to the next page)						

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15	Peter and John were paid a total of \$3390 for the work they did. Peter was paid \$1830 more than John.	
	(a) How much was Peter paid?	
	Ans: (a) [1]	
		gin.
	(b) Peter and John were paid based on the number of days they worked.	the mar
	Peter worked 3 times as many days as John. Peter was paid \$5 more than John per day.	t write in
	How many days did Peter work?	e do not
		Pleas
· ·		
	Ans: (b)[3]	

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ANSWER KEY

- YEAR : 2024
- LEVEL: PRIMARY 6
- Rett SCHOOL: NAN HUA PRIMARY SCHOOL

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- SUBJECT: MATHEMATICS
- TERM: WA2

PAPER 1 BOOKLET A

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



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Qn	Solution								
30	360° + 180° = 540°								
	540° – 145° –	145° = 2	50° (∠AB	C + ∠ADC -	+∠CDE)				
	Since $\angle ABC = \angle ADC$, $\angle ABC$ cannot be 125°								
	Statement	True	False	Not]				
				to tell					
	∠BAD +								
	∠DEC =								
	145°								
	∠ABC =								
	125°								

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Word Problem Worksheet & Solutions Nan Hua Paper 2 P6 Mathematics WA2 2024 Show your working clearly in the space provided for each question and write your answers in the spaces provided. Questions can be found at the end of the worksheet.

- 1. 660 500 = 160 $160 \approx 200$ First 500g \rightarrow \$5.20 Additional 200g \rightarrow \$1 x 2 = \$2 \$5.20 + 2 = \$7.20
- 2. $5 \times 5 \times 5 = 125 \text{ cm}^3$
- 3. a) April b) March
- 4. Total of 3 girls $\rightarrow 28 \times 3 = 84$ Total of 4 girls $\rightarrow 29 \times 4 = 116$ 116 - 84 = 32 kg
- 5. \angle BOE is twice of FOD \angle FOD = \angle COE (vertically opposite angles) \angle BOE + \angle COE = 3 units = 180 - 60 = 120° \angle FOD = \angle COE = 120 ÷ 3 = 40°

6. Muffins sold in afternoon $=\frac{2}{5} \times \frac{2}{3} = \frac{4}{15}$ $1 - \frac{1}{3} - \frac{4}{15}$ $=\frac{15 - 5 - 4}{15} = \frac{6}{15}$ 6 units = 42 1 unit = 7 15 units = 7 x 15 = 105 = number of Bala's muffins at first

Ans: 105

7. Before

Ivan : Helen : Total 3 : 2 : 5 9u : 6u : 15uAfter 2u : 13u : 15uIvan gave Helen 9u - 2u = 7u 7u = 21 1u = 3 $9u = 3 \times 9 = 27

Ans: \$27

8. $75\% \rightarrow \$54$

 $1\% \rightarrow 54 \div 75 = 0.72$ $100\% \rightarrow 0.72 \times 100 = 72 Original cost of 15 cupcakes = \$72 15 cupcakes \rightarrow \$72 1 cupcake \rightarrow 72 \div 15 = \$4.80

Number of cupcakes Karen can buy without discount = $54 \div 4.80 = 11.25 \approx 11$



9. a) $56 \div 14 = 4$ Monday = 4 x 31 = 124 b) 75 x 3 = 225 Friday = 30 x 4 = 120 225 - 120 = 105 105 - 1 = 104 Thursday = 104 ÷ 2 = 52

b) 52

Ans: a) 124

10. a)

Number of hot dogs = $225 \div 3 = 75$

b)

Number of chicken pies = $300 \div 4 = 75$

Number of burgers = $240 \div 5 = 48$

Number of waffles = $300 \div 3 = 100$

Hotdog and chicken pie have the same number sold

Ans: a) 75 b) Hotdog & chicken pie

11. a) $8 \times 8 = 64$ Radius = $8 \div 4 = 2 \text{ cm}$ b) $1.75 \times 3.14 \times 2 \times 2 = 21.98$ Remaining area = $64 - 21.98 = 42.02 \text{ cm}^2$

Ans: a) 2 cm

b) 42.02 cm²

*Challenging



14. a) $\angle ABE = 180 - 2(45+18) = 54^{\circ}$ b) $\angle EBC = 90 - 54 = 36^{\circ}$ $\angle BEC = (180 - 36) \times \frac{1}{2} = 72^{\circ}$

> Ans: a) 54° b) 72°

15. a)

3390 - 1830 = 1560 1560 \div 2 = 780 Amount Peter received = 780 + 1830 = 2610 b) John received \$780 If Peter receive same pay per day, Peter should have received 780 x 3 = \$2340 2610 - 2340 = 270 270 \div 5 = 54 = Number of days Peter worked Ans: a) 2610 b) 54

- 16. Total shaded area = quadrant unshaded triangle Area of rectangle = $12 \times 7 = 84$ Area of quadrant = $\frac{1}{4} \times \frac{22}{7} \times 7 \times 7 = 38.5$ Total area = 84 + 38.5 = 122.5Area of unshaded triangle = $\frac{1}{2} \times 19 \times 7 = 66.5$ a) Total shaded area = $122.5 - 66.5 = 56 \text{ cm}^2$ b) $\frac{1}{4} \times \frac{22}{7} \times 14 + 12 + 7 + (43.5 - 19) = 54.5 \text{ cm}$
 - Ans: a) 56 cm² b) 54.5 cm

a) $\$1.17 \times 32 = \37.44 b) $\$1.17 \times 40 = \46.80 \$66.40 - \$46.80 = \$19.60 $\$19.60 \div 1.40 = 14$ Amount of water = $14 + 40 = 54 \text{ m}^3$ Ans: a) \$37.44b) 54 m^3

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