



NANYANG PRIMARY SCHOOL

**END-OF-YEAR EXAMINATION
2024**

PRIMARY 4

**MATHEMATICS
(BOOKLET A)**

Total Duration for Booklets A and B: 1 hour 45 minutes

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.

Name: _____ ()

Class: Primary 4 ()

Questions 1 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. (30 marks)

1. The value of digit 5 in 75 328 is _____.
- (1) 50
 - (2) 500
 - (3) 5000
 - (4) 50 000
2. 36 258 rounded to the nearest hundred is _____.
- (1) 36 300
 - (2) 36 260
 - (3) 36 200
 - (4) 36 000
3. 3 and 4 are factors of _____.
- (1) 8
 - (2) 18
 - (3) 24
 - (4) 34

4. How many one-thirds are there in 4 wholes?

(1) 12

(2) $\frac{3}{4}$

(3) $1\frac{1}{3}$

(4) 4

5. In which of the following does the digit 7 stand for 7 tenths?

(1) 13.75

(2) 37.68

(3) 45.37

(4) 71.54

6. Which figure has perpendicular lines?

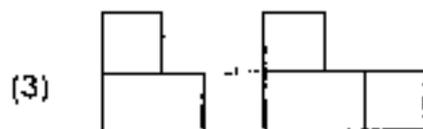
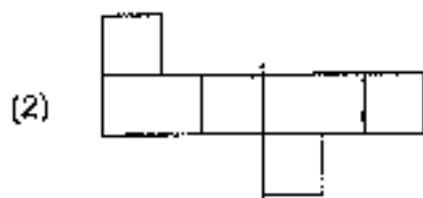
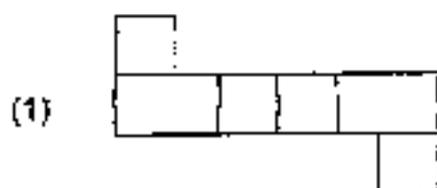
(1) A

(2) H

(3) N

(4) V

7. Each figure below is made up of 4 identical squares and 2 identical rectangles. Which one has a line of symmetry?



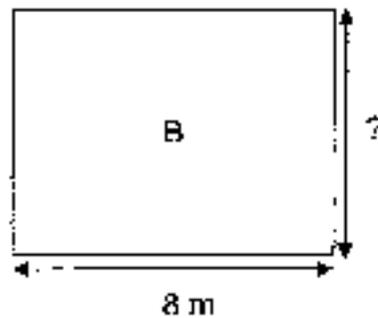
8. The figure shows a pyramid.



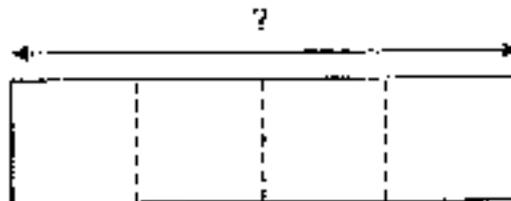
Which of the following is a net of the pyramid?

- (1) A square is positioned at the top. Three triangles are attached to its bottom edge, with their top vertices meeting at the square's bottom corners and its midpoint.
- (2) A square is on the left, followed by three triangles in a horizontal line. The right side of the square is attached to the left side of the first triangle.
- (3) A square is on the left, followed by three triangles in a horizontal line. The right side of the square is attached to the left side of the first triangle. A fourth triangle is attached to the top edge of the square.
- (4) A square is on the right, followed by three triangles in a horizontal line. The right side of the square is attached to the right side of the last triangle. A fourth triangle is attached to the top edge of the first triangle.

9. The area of rectangle B is 56 m^2 . Its length is 8 m . Find the breadth of rectangle B.

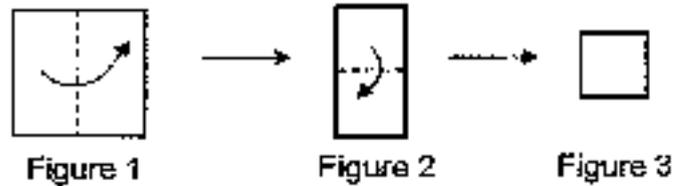


- (1) 6 m
(2) 7 m
(3) 8 m
(4) 9 m
10. A rectangle is divided into 4 identical squares as shown below. The perimeter of the rectangle is 80 cm . What is the length of the rectangle?



- (1) 16 cm
(2) 32 cm
(3) 48 cm
(4) 64 cm

11. A square piece of paper as shown in Figure 1 is folded twice into the shape of a smaller square as shown in Figure 3 below. The area of the smaller square is 9 cm^2 . What is the perimeter of the square piece of paper as shown in Figure 1?

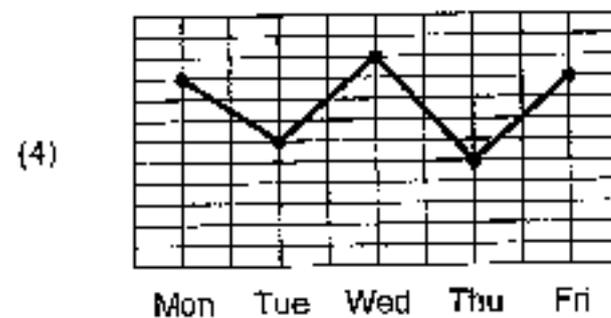
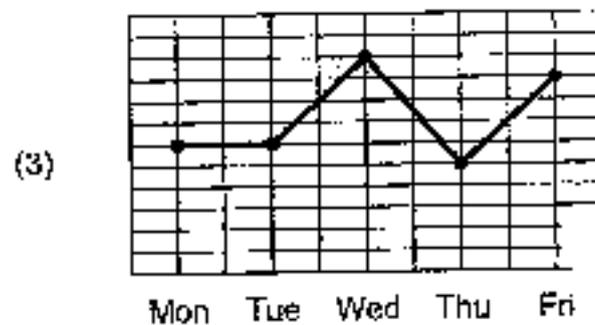
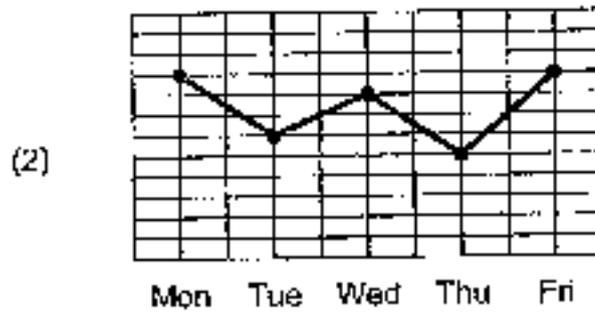
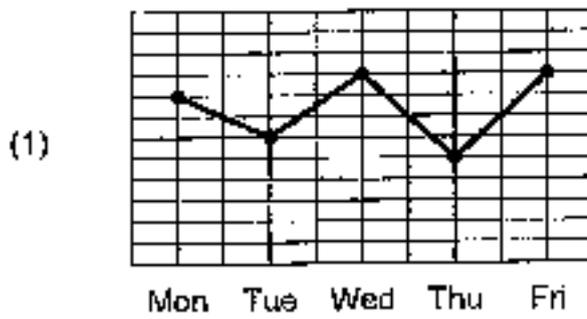


- (1) 12 cm
- (2) 18 cm
- (3) 24 cm
- (4) 36 cm
-
12. Jun Kai earned \$130 for a day of work. How much did Jun Kai earn for 14 days of work?
- (1) \$550
- (2) \$650
- (3) \$1720
- (4) \$1820

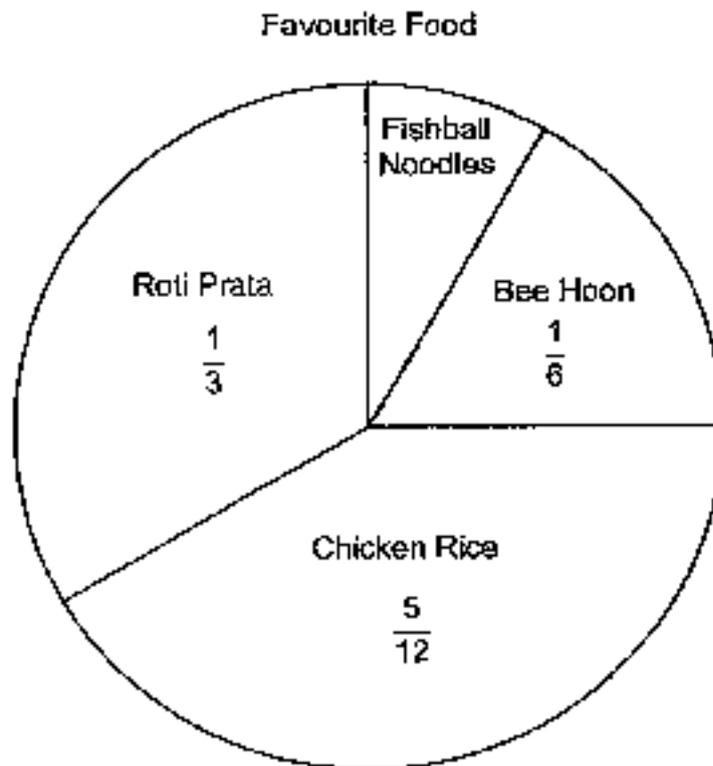
13. The table below shows the number of customers at a drinks stall from Monday to Friday.

Monday	Tuesday	Wednesday	Thursday	Friday
450	300	500	250	450

Which one of the line graphs below best represents the information in the table?



14. The pie chart shows the favourite types of food of a group of 60 children. Which statement best represents the data in the pie chart?



- (1) Chicken rice is the least favourite food among the children.
- (2) The number of children who chose bee hoon is twice the number of children who chose roti prata.
- (3) $\frac{1}{10}$ of the children chose fishball noodles as their favourite food.
- (4) 20 children chose roti prata as their favourite food.

15. The table shows the prices of tickets for a concert.

Type	Monday to Friday	Saturday and Sunday
Adult	\$31.60	\$39.60
Child	\$15.90	\$21.90

How much does a family of 2 adults and 3 children have to pay for the concert that will be held on a Saturday?

- (1) \$110.90
- (2) \$126.60
- (3) \$144.90
- (4) \$162.60



NANYANG PRIMARY SCHOOL

**END-OF-YEAR EXAMINATION
2024**

PRIMARY 4

**MATHEMATICS
(BOOKLET B)**

Total Duration for Booklets A and B: 1 hour 45 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.

Name: _____ ()

Class: Primary 4 ()

Parent's Signature: _____

Booklet A	/ 30
Booklet B	/ 70
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 16 to 35 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. (40 marks)

16. What is the remainder when 1786 is divided by 9?

Ans: _____

17. What fraction of the triangles shown are black in colour?



Ans: _____

18. Express $\frac{9}{12}$ in its simplest form.

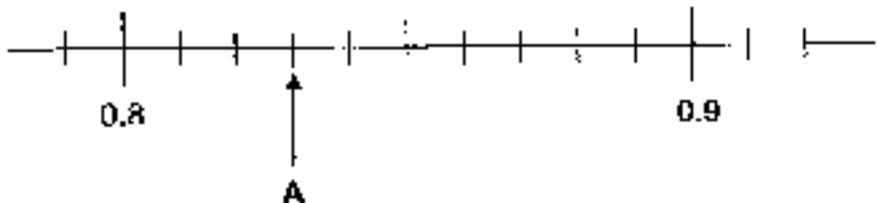
Ans: _____

19. Which two of the fractions below are smaller than $\frac{1}{2}$?

$$\frac{3}{5}, \quad \frac{2}{7}, \quad \frac{4}{8}, \quad \frac{5}{12}$$

Ans: _____ and _____

20. Write the decimal represented by A.



Ans: _____

21. Round 23.45 to the nearest whole number.

Ans: _____

22. Arrange these numbers from the smallest to the greatest.

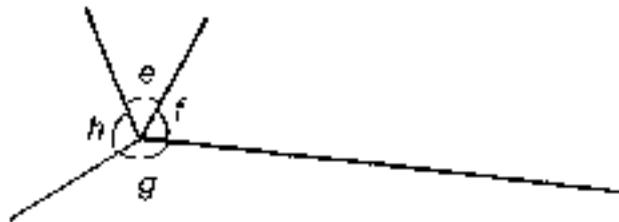
$$\frac{2}{5}, \quad 0.408, \quad 0.048$$

Ans: _____ , _____ , _____
(greatest)

23. $6.3 - 0.74 =$ _____

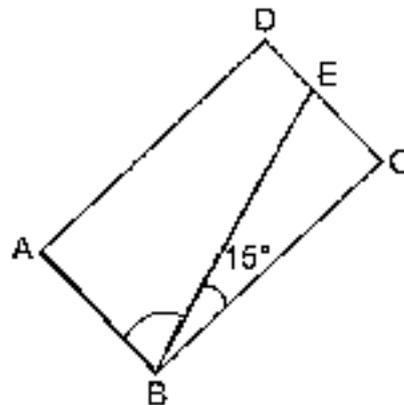
Ans: _____

24. Name the smallest angle.



Ans: \angle _____

25. In the figure below, ABCD is a rectangle. $\angle EBC = 15^\circ$. Find $\angle ABE$.



Ans: _____^o

26. The table shows the number of boys and girls in two Primary 4 classes who took part in two sports events, Long Jump and High Jump.

Class	Number of boys		Number of girls		Total
	Long Jump	High Jump	Long Jump	High Jump	
4A	9	11	?	6	40
4B	10	8	10	14	42

- (a) How many boys in 4B took part in High Jump?

Ans: (a) _____

- (b) How many girls in 4A took part in Long Jump?

Ans: (b) _____

-
27. Use all the digits below to form the smallest 5-digit even number. Each digit can only be used once.

3	0	9	1	8
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Ans: _____

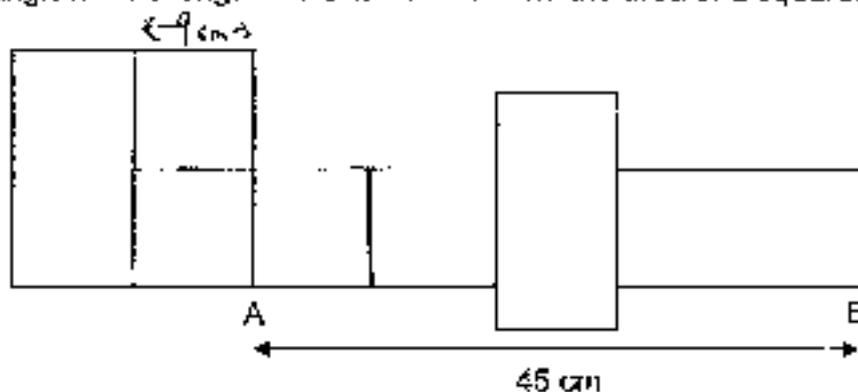
28. The difference between two numbers is 1340. The greater number is 5 times the smaller number. What is the greater number?

Ans: _____

29. Joseph spent \$21.95. He spent \$3.25 more than Muthu. How much did Joseph and Muthu spend altogether?

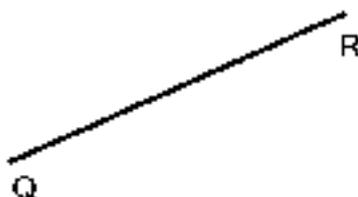
Ans: \$ _____

30. The figure below is made up of 2 identical squares and 4 identical rectangles. The length of AB is 45 cm. Find the area of a square.

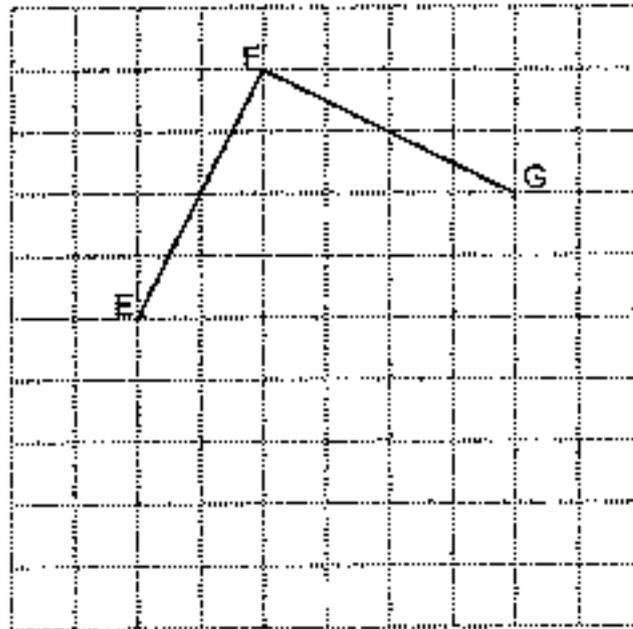


Ans: _____ cm^2

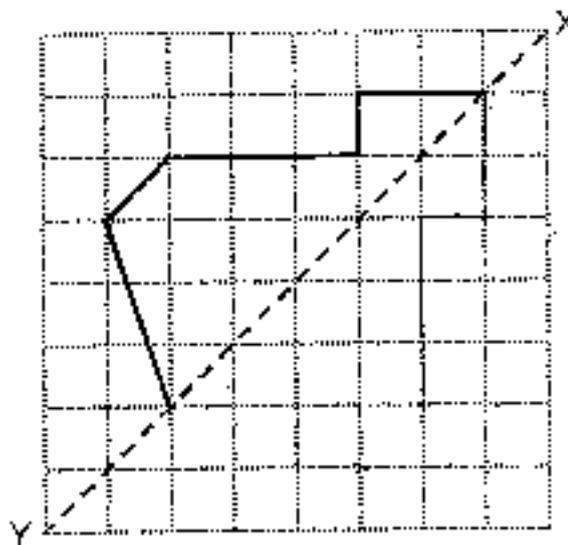
31. Using a protractor and a ruler, draw $\angle PQR = 104^\circ$. Mark and label the angle. The line QR has been drawn for you.



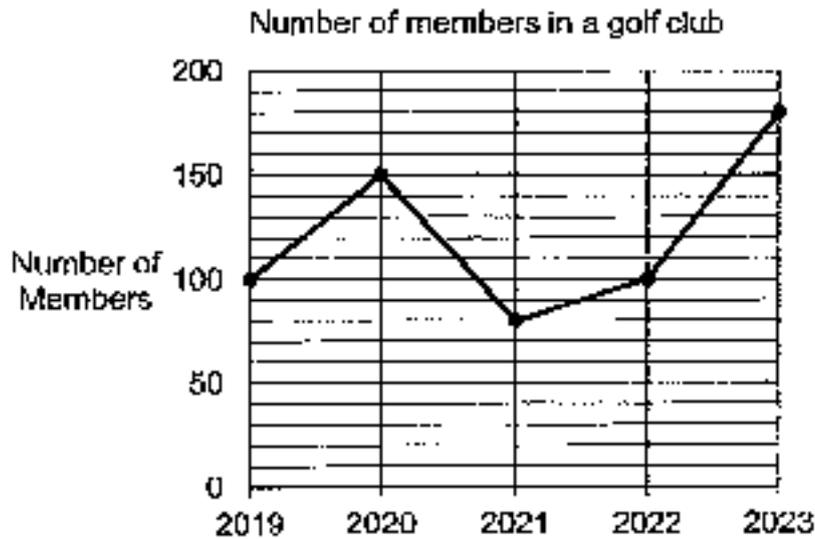
32. In the square grid below, line EF and line FG form two sides of a square EFGH. Complete the drawing of square EFGH.



33. Complete the symmetric figure with XY as the line of symmetry.



34. The line graph shows the number of members in a golf club from 2019 to 2023.



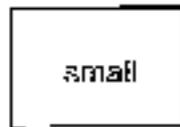
- (a) During which 1-year period was there a greatest increase in the number of members in the golf club?

Ans: (a) Year _____ to Year _____

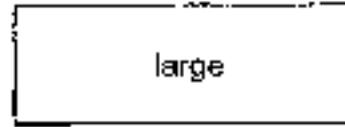
- (b) How many fewer members were there in 2021 than 2020?

Ans: (b) _____

36. Two types of cardboard are sold at the prices shown.



\$3



\$5

Mailing bought a total of 23 cardboards. She paid \$85 altogether. How many small cardboards did she buy?

Ans: _____

For questions 36 to 43, 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. (30 marks)

36. The table shows the number of pancakes and tarts sold in a cafe from Friday to Sunday.

Day	Pancakes	Tarts
Friday	45	42
Saturday	52	33
Sunday	48	51

- (a) On which day were there more tarts sold than pancakes?

Ans: (a) _____ [1]

- (b) Each pancake was sold at \$3. How much more money was collected from the sale of the pancakes on Saturday than on Friday?

Ans: (b) _____ [2]

37. The mass of a box with 5 identical cubes weighed 31.7 kg. 2 cubes were removed from the box. The mass of the box with the remaining number of cubes weighed 20.3 kg. What was the mass of the empty box?

Ans: _____ [3]

38. James bought an equal number of muffins and cookies for a group of friends. When he gave them 5 muffins each, he had 6 muffins left. When he gave them 7 cookies each, he was short of 4 cookies.

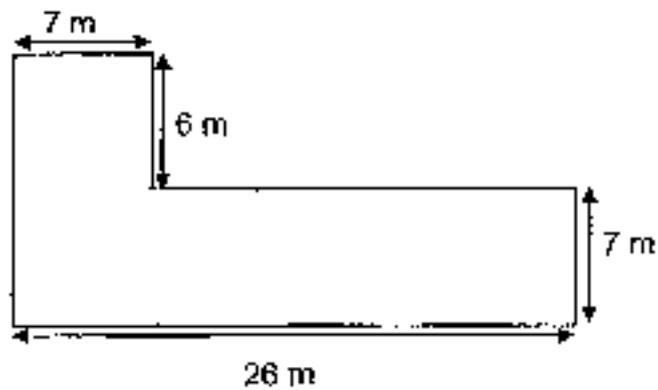
(a) How many muffins and cookies did James buy altogether?

Ans: (a) _____ [3]

(b) How many friends did James give the muffins and cookies to?

Ans: (b) _____ [1]

39. The figure below is made up of straight lines that meet at right angles.



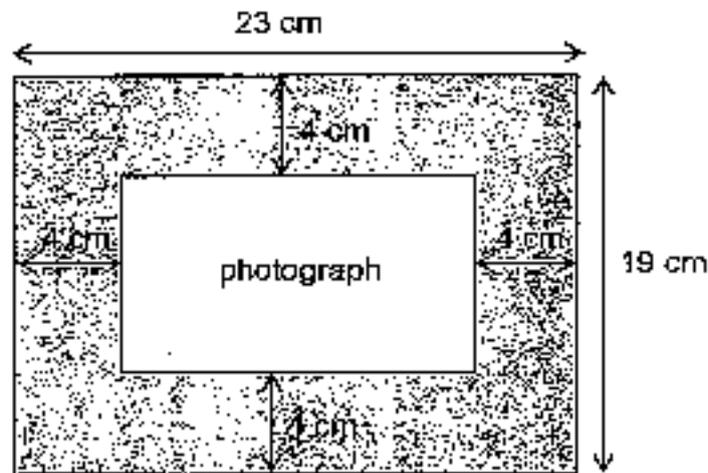
(a) Find the perimeter of the figure.

Ans: (a) _____ [2]

(b) Find the area of the figure.

Ans: (b) _____ [2]

40. There is a rectangular piece of cardboard measuring 23 cm by 19 cm. Danissa pasted a photograph at the centre of the cardboard, leaving a border of 4 cm all around it.



- (a) What is the perimeter of the photograph?

Ans: (a) _____ [2]

- (b) What is the area of the photograph?

Ans: (b) _____ [2]

41. Mrs Singh baked some cupcakes for a party. $\frac{2}{7}$ of them were chocolate cupcakes, $\frac{4}{7}$ of them were strawberry cupcakes and the rest were vanilla cupcakes. There were 56 strawberry cupcakes.

(a) How many chocolate cupcakes did Mrs Singh bake?

Ans: (a) _____ [2]

(b) How many more strawberry cupcakes than vanilla cupcakes did Mrs Singh bake?

Ans: (b) _____ [2]

42. Cassie and Eli had some orange juice at first. Cassie gave $\frac{3}{4}$ ℓ of orange juice to Dayan. Eli then gave Cassie $\frac{5}{8}$ ℓ of orange juice. Cassie had $\frac{9}{10}$ ℓ of orange juice in the end.
- (a) How much orange juice did Cassie have at first? Express your answer as a mixed number.

Ans: (a) _____ [2]

- (b) Each of the statements is either true (T), false (F), or not possible to tell (NPTT) from the information given. For each statement, put a tick (✓) to indicate your answer.

Statement	T	F	NPTT
Eli had $\frac{3}{8}$ ℓ of orange juice left.			
The amount of orange juice Eli gave to Cassie was less than the amount of orange juice Cassie gave to Dayan.			
Cassie poured the amount of orange juice she had in the end into 2 cups. The amount of orange juice she poured into each cup was more than $\frac{1}{2}$ ℓ.			

[2]

43. There were 76 more belts than caps at first. After 158 belts and 30 caps were sold, there were 3 times as many caps as belts left.

(a) How many belts were there in the end?

Ans: (a) _____ [2]

(b) How many caps were there at first?

Ans: (b) _____ [2]

End of Paper



NANYANG PRIMARY SCHOOL
END-OF-YEAR EXAMINATION
2024

PRIMARY 4
MATHEMATICS
(BOOKLET A)

Total Duration for Booklets A and B: 1 hour 45 minutes

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Name: _____

Class: Primary 4 ()

Questions 1 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Mark your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.

1. The value of digit 6 in 76 800 is _____.

- (1) 60
(2) 600
(3) 6000
(4) 60 000

$\begin{array}{c} 1 \\ \text{thousand} \end{array}$

(3)

2. 28 258 rounded to the nearest hundred is _____.

- (1) 28 300
(2) 28 200
(3) 28 200
(4) 28 000

$28 \overline{) 28258} \approx 28300$

(1)

3. 3 and 4 are factors of _____.

- (1) 8
(2) 18
(3) 24

$\begin{array}{l} 36 \div 3 = 12 \\ 36 \div 4 = 9 \end{array}$

(3)

12644, 9, 36

4. How many one-thirds are there in 4 wholes?

- (1) 12
(2) $\frac{3}{4}$
(3) $1\frac{1}{3}$
(4) 4

1 whole = $\frac{3}{3}$

Since 1 whole has 3 one-thirds,
4 wholes will have $4 \times 3 = 12$ one-thirds.



5. In which of the following does the digit 7 stand for 7 tenths?

- (1) 53.75
(2) 37.89
(3) 46.97
(4) 71.84



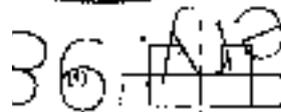
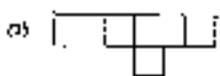
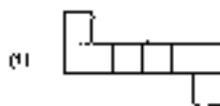
(1)

6. Which figure has perpendicular lines?

- (1) A
(2) H
(3) N
(4) V

(2)

7. Each figure below is made up of 4 identical squares and 2 identical rectangles. Which one has a line of symmetry?



(4)

8. The figure shows a pyramid.

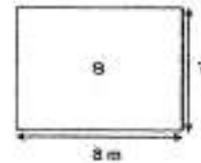


Which of the following is a net of the pyramid?

- (1) (2) (3) (4)

(2)

9. The area of rectangle B is 56 m². Its length is 8 m. Find the breadth of rectangle B.

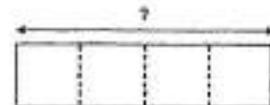


- (1) 6 m
(2) 7 m
(3) 8 m
(4) 9 m

$$56 \div 8 = 7$$

(2)

10. A rectangle is divided into 4 identical squares as shown below. The perimeter of the rectangle is 80 cm. What is the length of the rectangle?



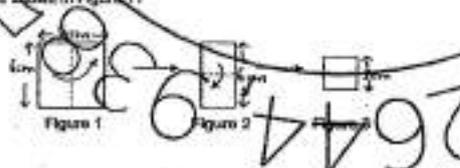
- (1) 16 cm
(2) 32 cm
(3) 48 cm
(4) 64 cm

$$80 \div 10 = 8$$

$$8 \times 4 = 32$$

(2)

11. A square piece of paper as shown in Figure 1 is folded twice into the shape of a smaller square as shown in Figure 2 below. The area of the smaller square is 9 cm². What is the perimeter of the square piece of paper as shown in Figure 1?



- (1) 12 cm $3 \times 3 = 9$
(2) 18 cm $3 \times 3 = 6$
(3) 24 cm $6 \times 4 = 24 \text{ cm}$
(4) 36 cm

(3)

12. Jun Kai earned \$130 for a day of work. How much did Jun Kai earn for 14 days of work?

- (1) \$580 $\$130 \times 14 = \1820
(2) \$680
(3) \$1720
(4) \$1820

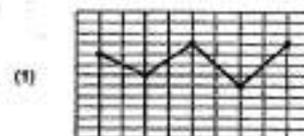
$$\begin{array}{r} 130 \\ \times 14 \\ \hline 520 \\ + 1300 \\ \hline 1820 \end{array}$$

(4)

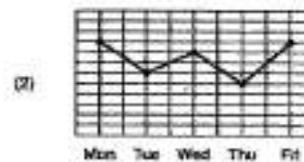
13. The table below shows the number of customers of a drinks stall from Monday to Friday.

Monday	Tuesday	Wednesday	Thursday	Friday
450	300	500	250	450

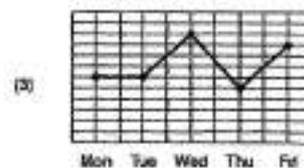
Which one of the line graphs below best represents the information in the table?



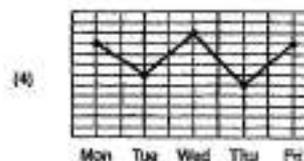
* Monday and Friday
- same data (450)
- same point on the line graph.



* Wednesday
- highest point on the line graph.



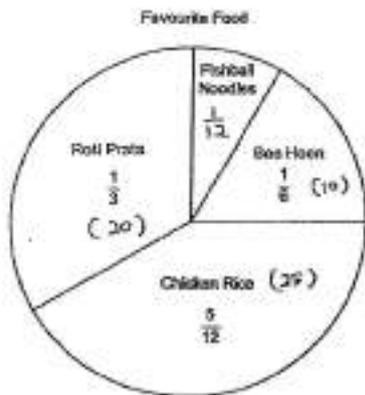
* Tuesday
- in between 200 and 450
- in between with point at Mon/Fri and Thu



* Thursday
- lowest point on the line graph.

(4)

14. The pie chart shows the favourite types of food of a group of 60 children. Which statement best represents the data in the pie chart?



- (1) Chicken rice is the least favourite food among the children. X
- (2) The number of children who chose bee hoon is twice the number of children who chose roti prata. X
- (3) $\frac{1}{10}$ of the children chose fishball noodles as their favourite food. X
- (4) 20 children chose roti prata as their favourite food. ✓ (4)

Bee Hoon $\rightarrow 60 \div 6 = 10$

Roti Prata $\rightarrow 60 \div 3 = 20$

Chicken Rice $\rightarrow 60 \div 12 = 5$
 $5 \times 5 = 25$

$\frac{1}{3} = \frac{4}{12}$

$\frac{1}{6} = \frac{2}{12}$

$\frac{4}{12} + \frac{2}{12} + \frac{5}{12} = \frac{11}{12}$

$1 - \frac{11}{12} = \frac{1}{12}$ (Fishball Noodles)

Child	\$15.00	\$21.00
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How much does a family of 2 adults and 3 children have to pay for the concert that will be held on a Saturday?

- (1) \$110.00
- (2) \$120.00
- (3) \$144.00
- (4) \$102.00

$$\begin{array}{r}
 1 \quad 1 \\
 39.6 \\
 \times \quad 2 \\
 \hline
 79.2
 \end{array}
 \qquad
 \begin{array}{r}
 2 \\
 21.9 \\
 \times \quad 3 \\
 \hline
 65.7
 \end{array}
 \qquad
 (3)$$

$$\begin{array}{r}
 1 \\
 79.20 \\
 + 65.70 \\
 \hline
 144.90
 \end{array}$$



NANYANG PRIMARY SCHOOL
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2024

PRIMARY 4
MATHEMATICS
(BOOKLET B)

Total Duration for Booklets A and B: 1 hour 45 minutes

INSTRUCTIONS TO PUPILS

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Name: _____
Class: Primary 4 ()
Parent's Signature: _____

Booklet A	/ 39
Booklet B	/ 70
Total	/ 109

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

Questions 16 to 25 carry 2 marks each. For questions which require units, give your answers in the units stated. (40 marks)

16. What is the remainder when 1786 is divided by 27?

$$\begin{array}{r} 65 \text{ R } 4 \\ 27 \overline{) 1786} \\ \underline{162} \\ 86 \\ \underline{81} \\ 56 \\ \underline{54} \\ 26 \\ \underline{22} \\ 4 \end{array}$$

Ans: 4

17. What fraction of the triangles shown are black in colour?



Ans: $\frac{5}{10}$

18. Express $\frac{9}{12}$ in its simplest form.

$$\frac{9}{12} = \frac{3}{4}$$

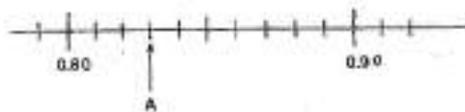
Ans: $\frac{3}{4}$

19. Which two of the fractions below are smaller than $\frac{1}{2}$?

$\frac{3}{5} < \frac{1}{2}$ ✓
 $\frac{1}{2} = \frac{1}{2}$ ✗
 $\frac{1}{4} < \frac{1}{2}$ ✓
 $\frac{3}{4} > \frac{1}{2}$ ✗
 $\frac{2}{3} > \frac{1}{2}$ ✗
 $\frac{4}{8} = \frac{1}{2}$ ✗
 $\frac{3}{12} < \frac{1}{2}$ ✓

Ans: $\frac{3}{5}$ and $\frac{3}{12}$

20. Write the decimal represented by A.



Ans: 0.83

21. Round 23.46 to the nearest whole number.

Ans: 23

22. Arrange these numbers from the smallest to the greatest.

$\frac{2}{5} \times 2 = \frac{4}{10} = 0.4$
 $\frac{3}{5}$ must be written as 0.6
 0.12 , 0.408 , 0.048

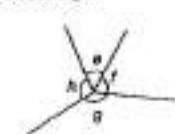
Ans: 0.048 (smallest), 0.12 , 0.408 (greatest)

23. $5.56 - 0.74 =$ _____

$$\begin{array}{r} 5.56 \\ - 0.74 \\ \hline 5.56 \end{array}$$

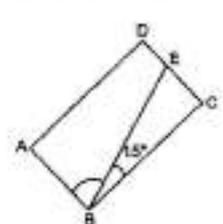
Ans: 5.56

24. Name the smallest angle.



Ans: ∠ b

25. In the figure below, ABCD is a rectangle. $\angle EBC = 15^\circ$. Find $\angle ADE$.



$$90^\circ - 15^\circ = 75^\circ$$

Ans: 75

26. The table shows the number of boys and girls in two Primary 4 classes who took part in two sports events, Long Jump and High Jump.

Class	Number of boys		Number of girls		Total
	Long Jump	High Jump	Long Jump	High Jump	
4A	9	11	7	8	40
4B	10	8	10	14	42

- (a) How many boys in 4B took part in High Jump?

Ans: (a) 8

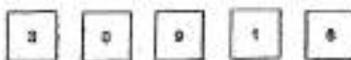
- (b) How many girls in 4A took part in Long Jump?

$$9 + 11 + 6 = 26$$

$$40 - 26 = 14$$

Ans: (b) 14

27. Use all the digits below to form the smallest 5-digit even number. Each digit can only be used once.

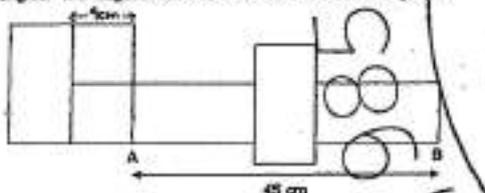


digit in end place must be even.

1 0 3 9 8
 Ten Hundred Thousand Tens ones
 thousand

Ans: 10398

30. The figure below is made up of 2 identical squares and 4 identical rectangles. The length of AB is 45 cm. Find the area of a square.

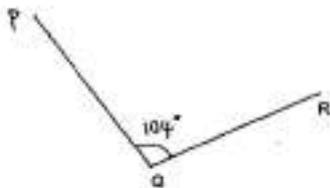


$$45 \div 5 = 9$$

$$9 \times 9 = 81$$

Ans: 81 cm²

31. Using a protractor and a ruler, draw $\angle PQR = 104^\circ$. Mark and label the angle. The line QR has been drawn for you.



28. The difference between two numbers is 1340. The greater number is 5 times the smaller number. Wh

Greater 1340

Smaller 1340

$$1340 \div 4 = 335$$

$$335 \times 5 = 1675$$

$$\begin{array}{r} 335 \\ 4 \overline{) 1340} \\ \underline{12} \\ 14 \\ \underline{12} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

Ans: 1675

29. Joseph spent \$21.95. He spent \$3.25 more than Mathu. How much did Joseph and Mathu spend altogether?

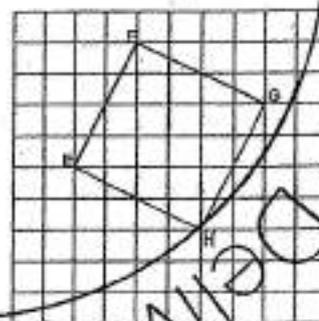
$$\$21.95 - \$3.25 = \$18.70$$

$$\$21.95 + \$18.70 = \$40.65$$

$$\begin{array}{r} 21.95 \\ - 3.25 \\ \hline 18.70 \end{array}$$

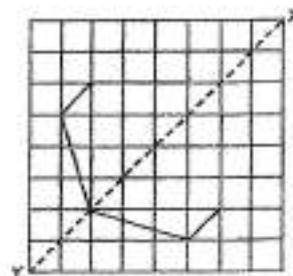
$$\begin{array}{r} 21.95 \\ + 18.70 \\ \hline 40.65 \end{array}$$

32. In the square grid below, line EF and line FG form two sides of a square EFGH. Complete the drawing of square EFGH.

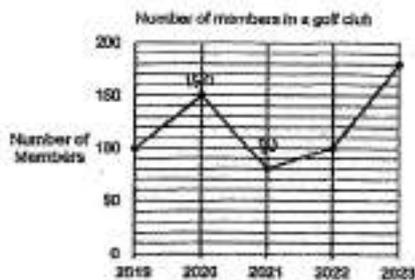


Point H must be marked.

86. Alvin
 Complete the symmetric figure with XY as the line of symmetry.



34. The line graph shows the number of members in a golf club from 2019 to 2023.



- (a) During which 1-year period was there a greatest increase in the number of members in the golf club?

- (b) How many fewer members were there in 2021 than 2020?

$$150 - 80 = 70$$

Ans: (b) 70

35. Two types of cardboard are sold at

small	large
\$3	\$5

Melley bought a total of 23 cardboard. She paid \$86 altogether. How many small cardboard did she buy?

No. of small cardboard	Price of small cardboard	No. of large cardboard	Price of large cardboard	Total no. of cardboard	Total price of cardboard
11	$11 \times \$3 = \33	12	$12 \times \$5 = \60	$11 + 12 = 23$	$\$33 + \$60 = \$93$
13	$13 \times \$3 = \39	10	$10 \times \$5 = \50	$13 + 10 = 23$	$\$39 + \$50 = \$89$
15	$15 \times \$3 = \45	8	$8 \times \$5 = \40	$15 + 8 = 23$	$\$45 + \$40 = \$85$

Alternative solution:

Assume all cardboard are small cardboard.

$$23 \times \$3 = \$69$$

$$\$85 - \$69 = \$16$$

$$\$5 - \$3 = \$2$$

$$\$16 \div \$2 = 8$$

$$23 - 8 = 15$$

OR

Assume all cardboard are large cardboard.

$$23 \times \$5 = \$115$$

$$\$115 - \$85 = \$30$$

$$\$5 - \$3 = \$2$$

$$\$30 \div \$2 = 15$$

Ans: 15

For questions 36 to 43, 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. (30 marks)

36. The table shows the number of pancakes and tarts sold in a cafe from Friday to Sunday.

Day	Pancakes	Tarts
Friday	45	43
Saturday	52	33
Sunday	48	51

- (a) On which day were there more tarts sold than pancakes?

Ans: (a) Sunday (1)

- (b) Each pancake was sold at \$3. How much more money was collected from the sale of the pancakes on Saturday than on Friday?

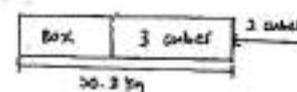
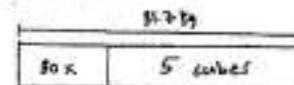
$$\text{Saturday} \rightarrow 52 \times \$3 = \$156$$

$$\text{Friday} \rightarrow 45 \times \$3 = \$135$$

$$\$156 - \$135 = \$21$$

Ans: (b) \$21 (2)

37. The mass of a box with 5 identical cubes weighed 31.7 kg. 2 cubes were removed from the box. The mass of the box with the remaining number of cubes weighed 20.3 kg. What was the mass of the empty box?



$$\text{Mass of 2 cubes} \rightarrow 31.7 - 20.3 = 11.4$$

$$\text{Mass of 1 cube} \rightarrow 11.4 \div 2 = 5.7$$

$$\text{Mass of 3 cubes} \rightarrow 5.7 \times 3 = 17.1$$

$$\text{Mass of empty box} \rightarrow 20.3 - 17.1 = 3.2$$

Ans: 3.2 kg (2)

38. James bought an equal number of muffins and cookies for a group of friends. When he gave them 5 muffins each, he had 5 muffins left. When he gave them 7 cookies each, he was short of 4 cookies.

(a) How many muffins and cookies did James buy altogether?

Multiplier of 5	5	10	15	20	25	30	35	40
+ 6	11	16	21	26	31	36	41	46
Multiplier of 7	7	14	21	28	35			
- 4	3	10	17	24	31			

$$31 + 31 = 62$$

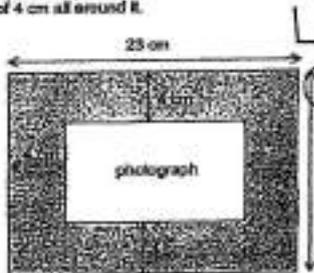
Ans: (a) 62 [3]

(b) How many friends did James give the muffins and cookies to?

Ans: (b) 5 [1]

12

40. There is a rectangular piece of cardboard measuring 23 cm by 19 cm. Danessa pasted a photograph at the centre of the cardboard, leaving a border of 4 cm all around it.



(a) What is the perimeter of the photograph?

$$23 - 4 - 4 = 15$$

$$19 - 4 - 4 = 11$$

$$(15 + 11) \times 2 = 52$$

Ans: (a) 52 cm [2]

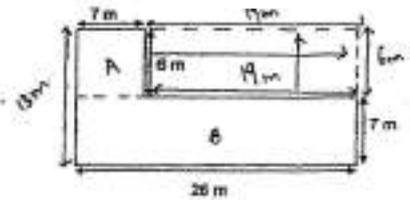
(b) What is the area of the photograph?

$$15 \times 11 = 165$$

$$\begin{array}{r} 15 \\ \times 11 \\ \hline 15 \\ + 150 \\ \hline 165 \end{array}$$

Ans: (b) 165 cm² [2]

39. The figure below is made up of six



(a) Find the perimeter of the figure.

$$(26 + 13) \times 2 = 78$$

OR

$$26 + 13 + 7 + 6 + 19 + 7 = 78$$

Ans: (a) 78 m [2]

(b) Find the area of the figure.

$$\text{Area of A} \rightarrow 7 \times 6 = 42$$

$$\text{Area of B} \rightarrow 10 \times 7 = 70$$

$$\text{Total area} \rightarrow 42 + 70 = 112$$

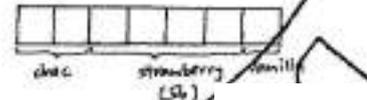
$$\begin{array}{r} 426 \\ \times 7 \\ \hline 182 \\ \hline 182 \\ + 42 \\ \hline 224 \end{array}$$

Ans: (b) 112 m² [2]

13

41. Mrs Singh baked some cupcakes for a party. $\frac{2}{7}$ of them were chocolate cupcakes, $\frac{4}{7}$ of them were strawberry cupcakes and the rest were vanilla cupcakes. There were 56 strawberry cupcakes.

a) How many chocolate cupcakes did Mrs Singh bake?



$$56 \div 4 = 14$$

$$14 \times 2 = 28$$

Ans: (a) 28 [2]

b) How many more strawberry cupcakes than vanilla cupcakes did Mrs Singh bake?

$$1 \text{ unit} \rightarrow 14$$

$$3 \text{ units} \rightarrow 14 \times 3 = 42$$

OR

$$56 - 14 = 42$$

Ans: (b) 42 [2]

7

42. Cassie and Eli had some orange juice at first. Cassie gave $\frac{3}{4}$ t of orange

juice to Deyan. Eli then gave Cassie $\frac{5}{8}$ t of orange juice. Cassie had

$\frac{9}{10}$ t of orange juice in the end.

(a) How much orange juice did Cassie have at first? Express your answer as a mixed number.

$$\frac{9}{10} + \frac{5}{8} - \frac{3}{4} = \frac{36}{40} + \frac{25}{40} - \frac{30}{40} = \frac{31}{40}$$

$$\frac{31}{40} + \frac{3 \times 10}{4 \times 10} = \frac{31}{40} + \frac{30}{40} = \frac{61}{40} = 1\frac{21}{40}$$

(b) Each of the statements below is true (T), false (F), or not possible to tell (NPTT) from the information given. For each statement, put a tick (✓) to indicate your answer.

All correct
(3 marks)

2 correct
(1 mark)

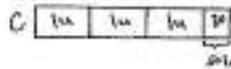
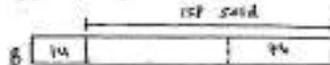
Let them 2
quintant correct
(1 mark)

Statement	T	F	NPTT
Eli had $\frac{3}{4}$ t of orange juice left.			✓
The amount of orange juice Eli gave to Cassie was less than the amount of orange juice Cassie gave to Deyan.	✓		
Cassie poured the amount of orange juice she had in the end into 2 cups. The amount of orange juice she poured into each cup was more than $\frac{1}{2}$ t.		✓	

(2)

43. There were 78 more belts than caps at first. After 30 belts and 30 caps were sold, there were 3 times as many caps as belts left.

(a) How many belts were there in the end?



$$158 - 30 = 128 = 52$$

$$52 \div 2 = 26$$

Ans: (a) 26 (2)

(b) How many caps were there at first?

$$26 \times 3 = 78$$

$$78 + 30 = 108$$

Ans: (b) 108 (2)

End of Paper

8
END