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 ( )

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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

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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

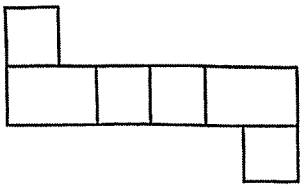
(2) H

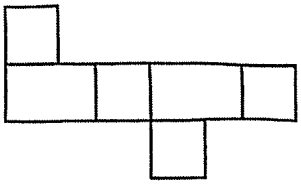
(3) N

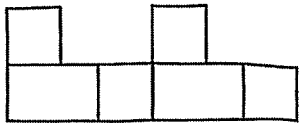
(4) V

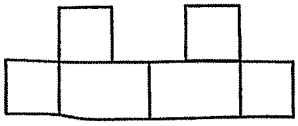
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7. Each figure below is made up of 4 identical squares and 2 identical rectangles. Which one has a line of symmetry?

(1) 

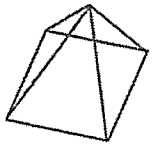
(2) 

(3) 

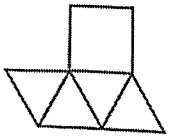
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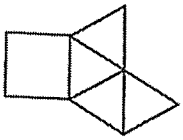
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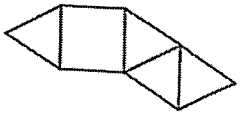
8. The figure shows a pyramid.

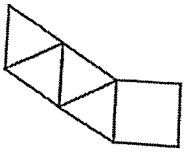


Which of the following is a net of the pyramid?

(1) 

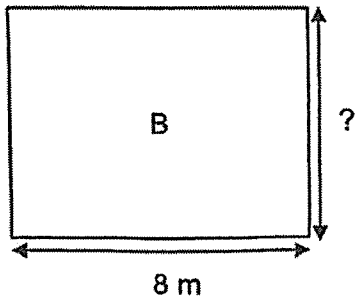
(2) 

(3) 

(4) 

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



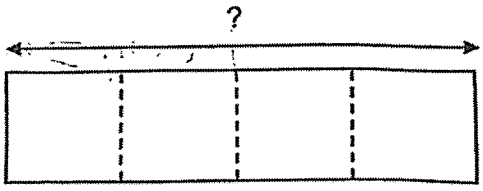
(1) 6 m

(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

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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?

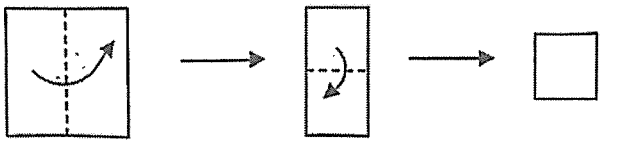


Figure 1 Figure 2 Figure 3

(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

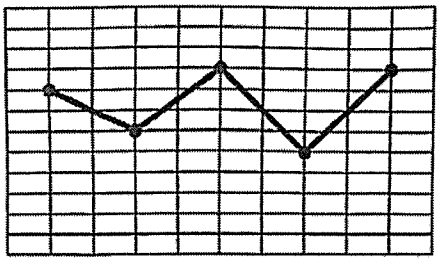
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13. The table below shows the number of customers at a drinks stall from Monday to Friday.

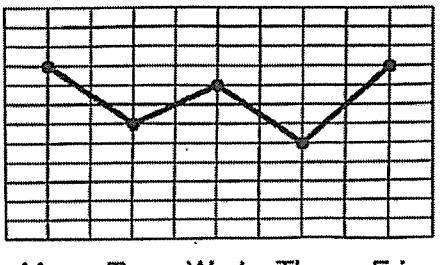
Monday	Tuesday	Wednesday	Thursday	Friday
450	300	500	250	450

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

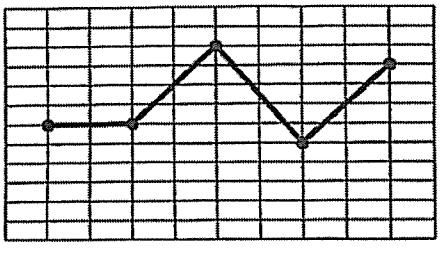
(1)



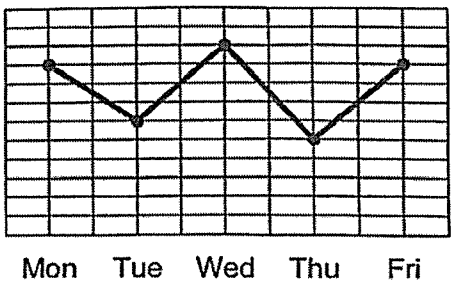
(2)



(3)

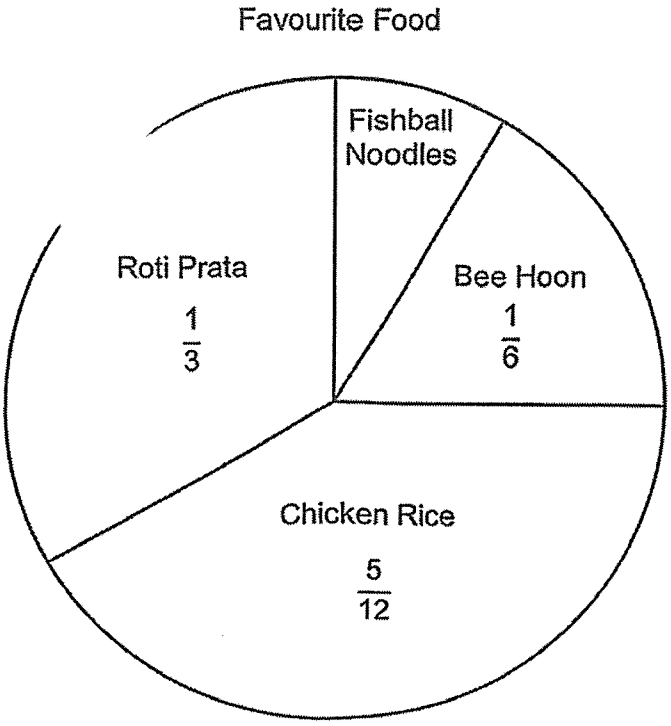


(4)



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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.

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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

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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.

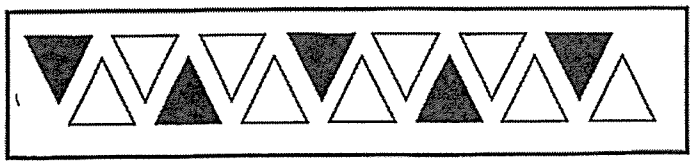
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Questions **16** to **35** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (40 marks)

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: _____

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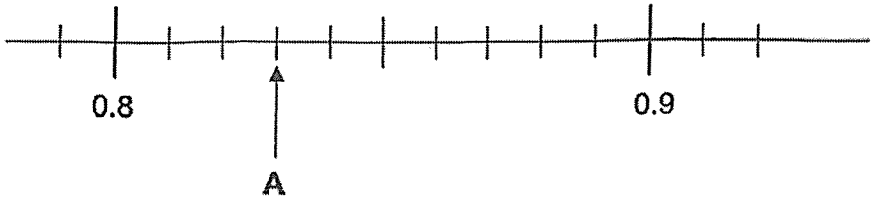
19. Which two of the fractions below are smaller than $\frac{1}{2}$?

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

Ans: _____ and _____

---

20. Write the decimal represented by A.



Ans: _____

---

21. Round 23.45 to the nearest whole number.

Ans: _____

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

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

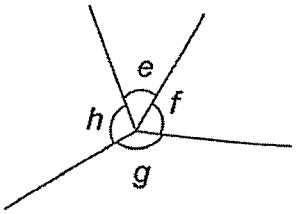
Ans: _____ , _____ , _____
(smallest) *(greatest)*

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23. $6.3 - 0.74 =$ _____

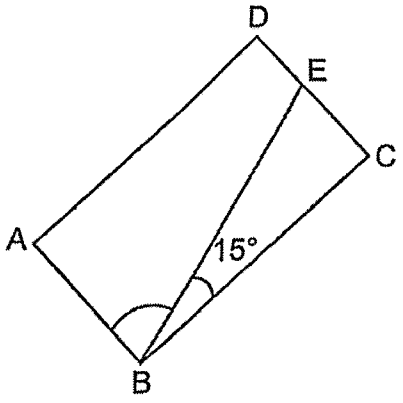
Ans: _____

24. Name the smallest angle.



Ans: ∠ _____

25. In the figure below, ABCD is a rectangle. ∠EBC = 15°. Find ∠ABE.



Ans: _____°

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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) _____

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

Ans: _____

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

Ans: _____

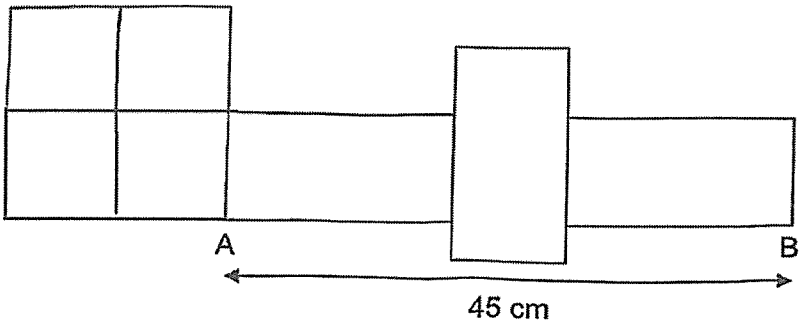
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29. Joseph spent $21.95. He spent $3.25 more than Muthu. How much did Joseph and Muthu spend altogether?

Ans: $_____

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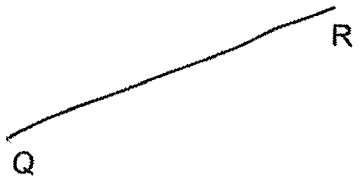
30. The figure below is made up of 2 identical squares and 4 identical rectangles. The length of AB is 45 cm. Find the area of a square.



Ans: _____ cm^2

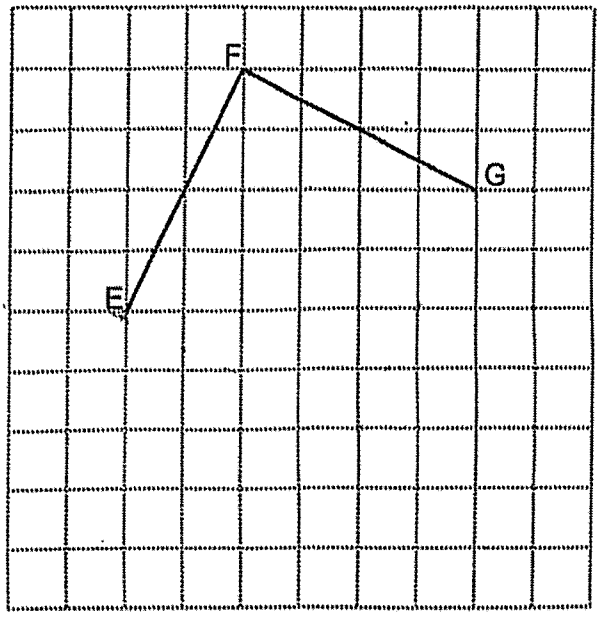
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3 Using a protractor and a ruler, draw $\angle PQR = 104°$. Mark and label the angle. The line QR has been drawn for you.

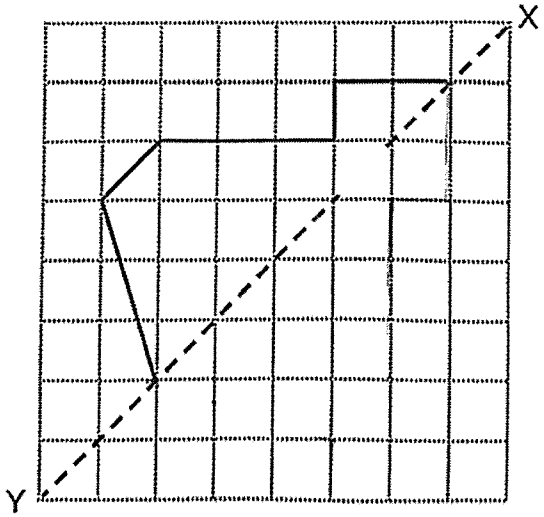


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32. In the square grid below, line EF and line FG form two sides of a square EFGH. Complete the drawing of square EFGH.

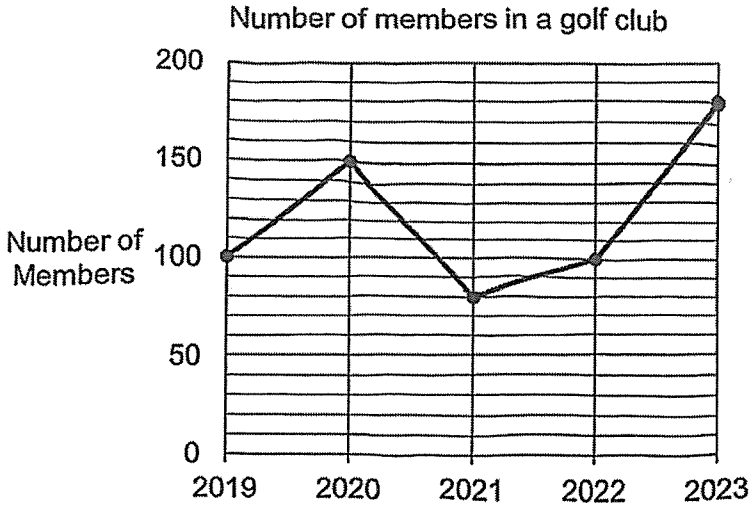


33. Complete the symmetric figure with XY as the line of symmetry.



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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?

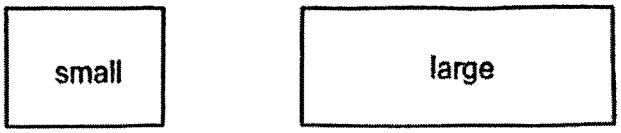
Ans: (a) Year _____ to Year _____

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

Ans: (b) _____

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



$3 $5

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

Ans: _____

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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)

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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]

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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]

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16 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?

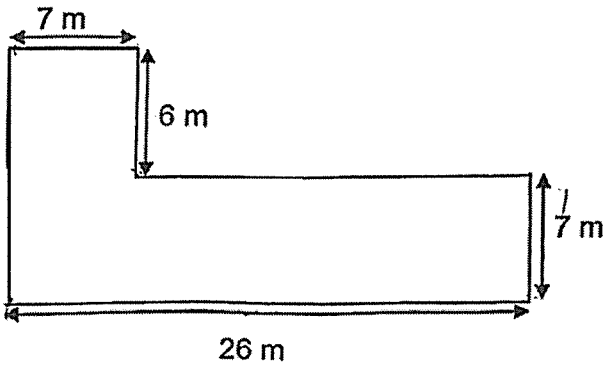
Ans: (a) _____ [3]

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

Ans: (b) _____ [1]

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



(a) Find the perimeter of the figure.

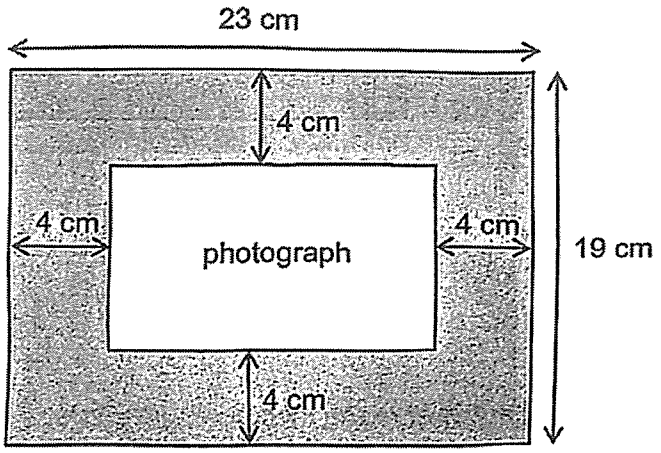
Ans: (a) _____ [2]

(b) Find the area of the figure.

Ans: (b) _____ [2]

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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]

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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]

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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]

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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

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NANYANG PRIMARY SCHOOL

END-OF-YEAR EXAMINATION 2024

PRIMARY 4

MATHEMATICS (BOOKLET A)

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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. 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 75328 is _____.

(1) 50 — thousands
(2) 500
(3) 5000 (3)
(4) 50 000

2. 36 258 rounded to the nearest hundred is _____.

(1) 36 300
(2) 36 260 — 36 258 ≈ 36 300
(3) 36 200 (1)
(4) 36 000

3. 3 and 4 are factors of _____.

(1) 8
(2) 18 — 24 ÷ 3 = 8
(3) 24 — 24 ÷ 4 = 6 (3)
(4) 34

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

(1) 12 — 1 whole = $\frac{3}{3}$
(2) $\frac{3}{4}$
(3) $1\frac{1}{3}$ — Since 1 whole has three-thirds, 4 wholes will have twelve-thirds.
(4) 4 — 4 × 3 = 12 (1)

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

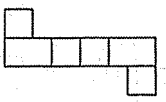
0.7

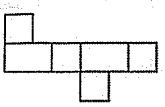
(1) 13.75
(2) 37.68
(3) 45.37 (1)
(4) 71.54

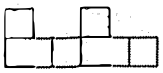
6. Which figure has perpendicular lines?

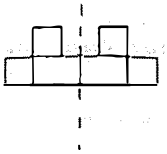
(1) A
(2) H
(3) N (2)
(4) V

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

(1)


(2)


(3)


(4)


(4)

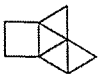
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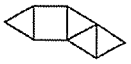
8. The figure shows a pyramid.

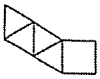


Which of the following is a net of the pyramid?

(1) 

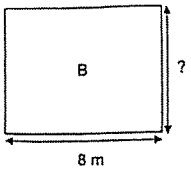
(2) 

(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

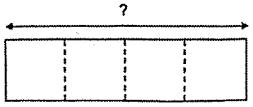
(3) 8 m

(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

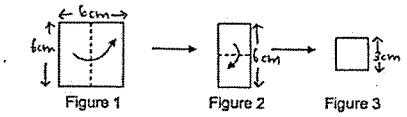
(4) 64 cm

$80 \div 10 = 8$

$8 \times 4 = 32$

(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 3 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

(2) 18 cm

(3) 24 cm

(4) 36 cm

$3 \times 3 = 9$

$3 \times 2 = 6$

$6 \times 4 = 24$ cm

(3)

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

$\$130 \times 14 = \$1820$

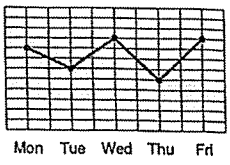
$$\begin{array}{r} {}^{1} \\ 130 \\ \times\ 14 \\ \hline 520 \\ +\ 1300 \\ \hline 1820 \end{array}$$

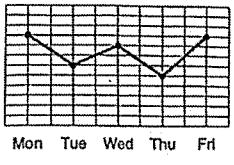
(4)

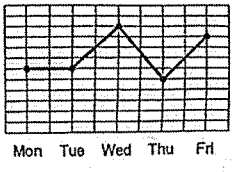
13. The table below shows the number of customers at a drinks stall from Monday to Friday.

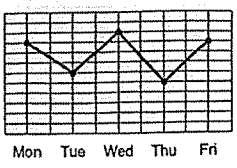
Monday	Tuesday	Wednesday	Thursday	Friday
450	300	500	250	450

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

(1) 

(2) 

(3) 

(4) 

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

★ Wednesday
- Highest point on the line graph

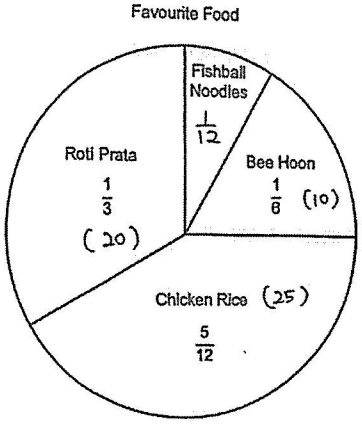
★ Tuesday
- In between 250 and 450
- In between data points of Mon/Fri and Thurs

★ Thursday
- Lowest point on the line graph.

(4)

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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?



X

(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. 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 ⟶ $60 \div 6 = 10$

Roti prata ⟶ $60 \div 3 = 20$

Chicken Rice ⟶ $60 \div 12 = 5$

$5 \times 5 = 25$

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

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

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

$1 - \frac{11}{12} = \frac{1}{12}$ (fishball noodles)

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

$\$39.60 \times 2 = \$79.20$

$\$21.90 \times 3 = \$65.70$

$\$65.70 + \$79.20 = \$144.90$

(3)

$$\begin{array}{r} {}^{1}\,{}^{1} \\ 39.6 \\ \times\ \ 2 \\ \hline 79.2 \end{array} \qquad \begin{array}{r} 2 \\ 21.9 \\ \times\ \ 3 \\ \hline 65.7 \end{array}$$

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

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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?

$$9 \overline{)1786} = 198 \text{ R } 4$$

Ans: 4

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



Ans: $\frac{5}{14}$

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

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

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

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

$\frac{3}{5}$. $\frac{2}{7}$ ✓ . $\frac{4}{8}$. $\frac{5}{12}$ ✓

$\frac{3}{5} = \frac{6}{10}$, $\frac{1}{2} = \frac{5}{10}$, $\frac{3}{5} > \frac{1}{2}$

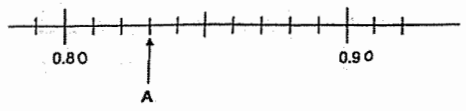
$\frac{1}{2} = \frac{7}{14}$, $\frac{2}{7} = \frac{4}{14}$, $\frac{1}{2} > \frac{2}{7}$

$\frac{1}{2} = \frac{4}{8}$

$\frac{1}{2} = \frac{6}{12}$, $\frac{1}{2} > \frac{5}{12}$

Ans: $\frac{2}{7}$ and $\frac{5}{12}$

20. Write the decimal represented by A.



Ans: 0.83

21. Round 23.45 to the nearest whole number.

Ans: 23

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

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

$\frac{2}{5} \times 2 = \frac{4}{10} = 0.4$

$\frac{2}{5}$ must be written, not 0.4

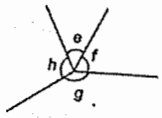
Ans: 0.048 (smallest) , $\frac{2}{5}$, 0.408 (greatest)

23. 6.3 − 0.74 = _____

$$\begin{array}{r} {}^{5}\cancel{6}.{}^{1}3{}^{1}0 \\ -\ 0.74 \\ \hline 5.56 \end{array}$$

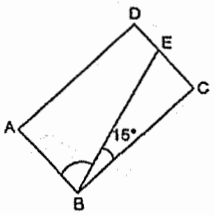
Ans: 5.56

24. Name the smallest angle.



Ans: ∠e

25. In the figure below, ABCD is a rectangle. ∠EBC = 15°. Find ∠ABE.



$90° - 15° = 75°$

Ans: 75

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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	6	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.

3	0	9	1	8

Digit in ones place must be even.

1 0 3 9 8

Ten Thousands | Thousands | Hundreds | Tens | Ones

Ans: 10 398

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

Greater

Smaller 1340

1340 ÷ 4 = 335

335 × 5 = 1675

$$\begin{array}{r} 335 \\ \times\ 5 \\ \hline 1675 \end{array}$$

$$4\overline{)1340}\quad 12 \quad 14 - 12 = 2 \quad 20 - 20 = 0$$

Ans: 1675

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

$21.95 − $3.25 = $18.70

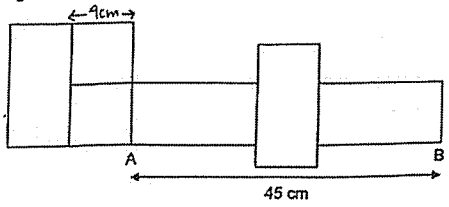
$21.95 + $18.70 = $40.65

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

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

Ans: $ 40.65

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.

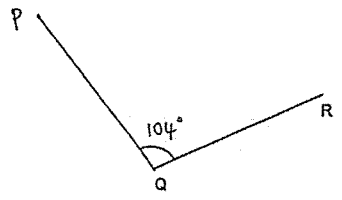


45 ÷ 5 = 9

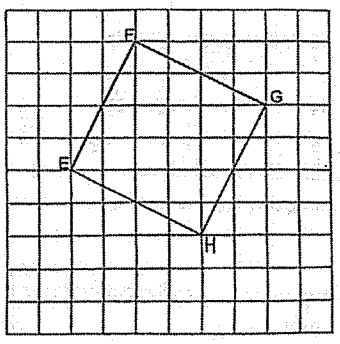
9 × 9 = 81

Ans: 81 cm²

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

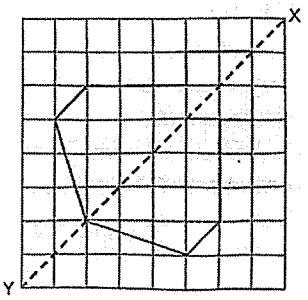


32. In the square grid below, line EF and line FG form two sides of a square EFGH. Complete the drawing of square EFGH.



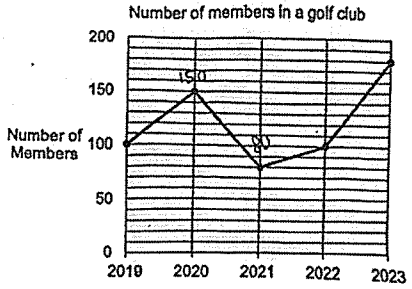
Point H must be labelled.

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



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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?

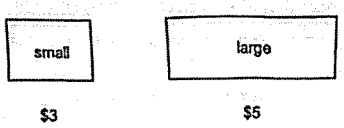
Ans: (a) Year 2022 to Year 2023

(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 the prices shown.



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

No. of small cardboards	Price of small cardboards	No. of large cardboards	Price of large cardboards	Total no. of card-boards	Total price of cardboards	
11	11 × $3 = $33	12	12 × $5 = $60	11 + 12 = 23	$60 + $33 = $93	✓
13	13 × $3 = $39	10	10 × $5 = $50	13 + 10 = 23	$39 + $50 = $89	✗
15	15 × $3 = $45	8	8 × $5 = $40	15 + 8 = 23	$45 + $40 = $85	✓

Alternative solution:

Assume all cardboards are small cardboards.

23 × $3 = $69
$85 − $69 = $16
$5 − $3 = $2
$16 ÷ $2 = 8
23 − 8 = 15

OR

Assume all cardboards are large cardboards.

23 × $5 = $115
$115 − $85 = $30
$5 − $3 = $2
$30 ÷ $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.

$3

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) 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?

Saturday → 52 × $3 = $156

Friday → 45 × $3 = $135

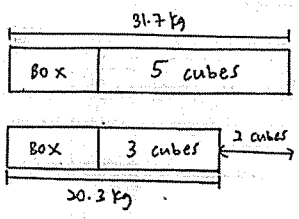
$156 − $135 = $21

52 × 3 = 156

45 × 3 = 135

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?



Mass of 2 cubes → 31.7 − 20.3 = 11.4

Mass of 1 cube → 11.4 ÷ 2 = 5.7

Mass of 3 cubes → 5.7 × 3 = 17.1

Mass of empty box → 20.3 − 17.1 = 3.2

31.7 − 20.3 = 11.4

11.4 ÷ 2 = 5.7

5.7 × 3 = 17.1

20.3 − 17.1 = 3.2

Ans: 3.2 kg [3]

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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?

muffins	Multiples of 5	5	10	15	20	25	30	35	40
	+ 6	11	16	21	26	(31)	36	41	46
cookies	Multiples of 7	7	14	21	28	35			
	−4	3	10	17	24	(31)			

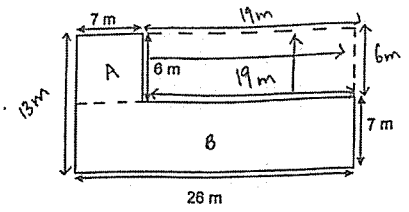
31 + 31 = 62

Ans: (a) 62 [3]

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

Ans: (b) 5 [1]

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



(a) Find the perimeter of the figure.

(26 + 13) × 2 = 78

OR

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

Ans: (a) 78m [2]

(b) Find the area of the figure.

Area of A → 7 × 6 = 42

Area of B → 26 × 7 = 182

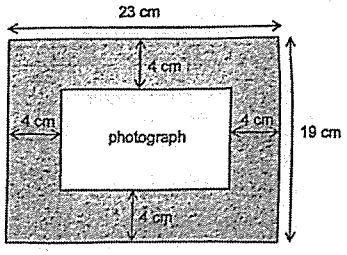
Total area → 182 + 42 = 224

426 × 7 = 182

1 182 + 42 = 224

Ans: (b) 224 m^2 [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?

23 − 4 − 4 = 15

19 − 4 − 4 = 11

(15 + 11) × 2 = 52

Ans: (a) 52cm [2]

(b) What is the area of the photograph?

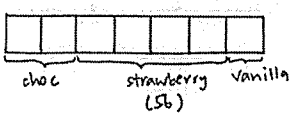
15 × 11 = 165

15 × 11 = 15 + 150 = 165

Ans: (b) 165 cm^2 [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?



56 ÷ 4 = 14

14 × 2 = 28

Ans: (a) 28 [2]

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

1 unit → 14

3 units → 14 × 3 = 42

OR

56 − 14 = 42

Ans: (b) 42 [2]

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42. Cassie and Eli had some orange juice at first. Cassie gave $\frac{3}{4}\ell$ of orange juice to Dayan. Eli then gave Cassie $\frac{5}{8}\ell$ of orange juice. Cassie had $\frac{9}{10}\ell$ of orange juice in the end.

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

$\frac{9\times4}{10\times4} - \frac{5\times5}{8\times5} = \frac{36}{40} - \frac{25}{40}$

$= \frac{11}{40}$

$\frac{11}{40} + \frac{3\times10}{4\times10} = \frac{11}{40} + \frac{30}{40} = \frac{41}{40}$

$= 1\frac{1}{40}$

Ans: (a) $1\frac{1}{40}\ell$ [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.

All correct (2 marks)

2 questions correct (1 mark)

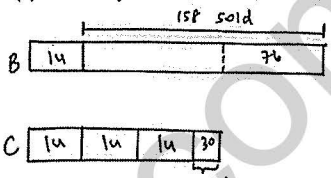
Less than 2 questions correct (1 mark)

Statement	T	F	NPTT
Eli had $\frac{3}{8}\ell$ 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 $\frac{1}{2}\ell$.		✓	

[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?



$158 - 30 - 76 = 52$

$52 \div 2 = 26$.

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

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