# METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

## END OF YEAR EXAMINATION 2023
## PRIMARY 4
## MATHEMATICS

BOOKLET A

Total Time for Booklets A to C: 1 hour 45 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.

Name: _____ (  )

Class: Primary 4. _____

Date: 30 October 2023

This booklet consists of 8 printed pages including this page.

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Questions **1** to **18** 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). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. **(36 marks)**

**1** 43 thousands and 8 tens is the same as _____.

(1) 438
(2) 4380
(3) 43 008
(4) 43 080

**2** Which of the following numbers when rounded to the nearest ten becomes 72 500?

(1) 72 444
(2) 72 496
(3) 72 506
(4) 72 554

**3** What is the missing number in the box?

$$6\frac{5}{9} = \frac{\square}{9}$$

(1) 30
(2) 49
(3) 54
(4) 59

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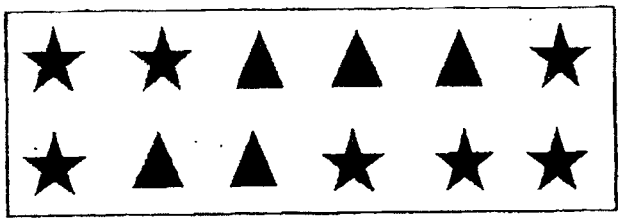
4 What fraction of the shapes in the box are ▲?



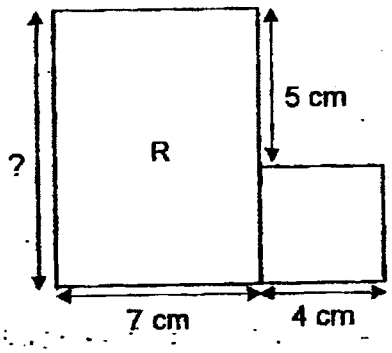
(1) $\frac{5}{12}$

(2) $\frac{5}{7}$

(3) $\frac{7}{12}$

(4) $\frac{7}{5}$

5 The figure shown is made up of a square S of side 4 cm and a rectangle R with breadth 7 cm. What is the length of the rectangle?




(1) 5 cm

(2) 9 cm

(3) 11 cm

(4) 12 cm

(Go on to the next page)

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6 Which number below is 1.5 less than 4.87?

(1) 3.37
(2) 4.72
(3) 5.02
(4) 8.37

7 The volume of water in a tank is 19 000 ℓ when rounded to the nearest thousand litres. Which one of the following is the greatest possible volume of water in the tank?

(1) 18 999 ℓ
(2) 19 099 ℓ
(3) 19 499 ℓ
(4) 19 999 ℓ

8 Which one of the following pairs of numbers have 3 and 9 as their common factors?

(1) 9 and12
(2) 18 and 21
(3) 21 and 27
(4) 27 and 36

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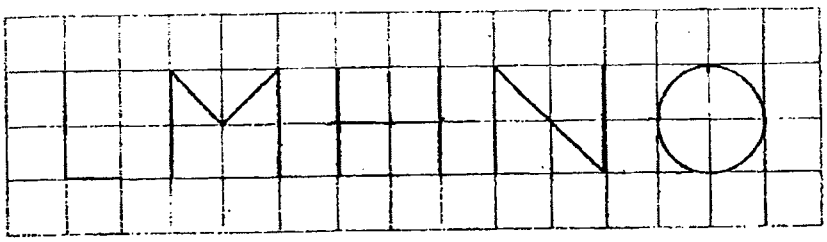
9 How many of the letters in the grid below have **at least** one line of symmetry?



(1) 1

(2) 2

(3) 3

(4) 4

10 Mr Lim bought $\frac{4}{5}$ kg of cherries. He and his sons ate $\frac{3}{10}$ kg of the cherries. What was the mass of cherries left?

(1) $\frac{1}{5}$ kg

(2) $\frac{1}{2}$ kg

(3) $\frac{7}{15}$ kg

(4) $1\frac{1}{10}$ kg

11 James bought 1.27 kg of sweets. His sister bought 0.18 kg more than him. What was the total mass of sweets they bought altogether?

(1) 1.09 kg

(2) 1.45 kg

(3) 2.36 kg

(4) 2.72 kg

(Go on to the next page)

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12 Janet's age is a multiple of 7 this year. Next year, her age will be a multiple of 6. Which one of the following is Janet's age this year?

(1) 14
(2) 35
(3) 42
(4) 49

13 The table below shows the favourite colour of some children.

| Colour | Black | Blue | Purple | Red |
|---|---|---|---|---|
| Number of children | 30 | 19 | 12 | ? |

The number of children who like red is three times the number of children who like purple. How many children are there altogether?

(1) 36
(2) 61
(3) 65
(4) 97

14 When it is 09 00 in Singapore, it is 10 30 in Australia.
Mr Kim makes a call at 14 50 from Singapore to his wife who is in Australia.
What is the time in Australia when Mr Kim calls his wife?

(1) 04 20
(2) 13 20
(3) 15 50
(4) 16 20

(Go on to the next page)

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15 A bus departed from Singapore and arrived in Kuala Lumpur at 13 40.
The bus ride took 5 hours and 30 minutes.
At what time did the bus depart from Singapore?

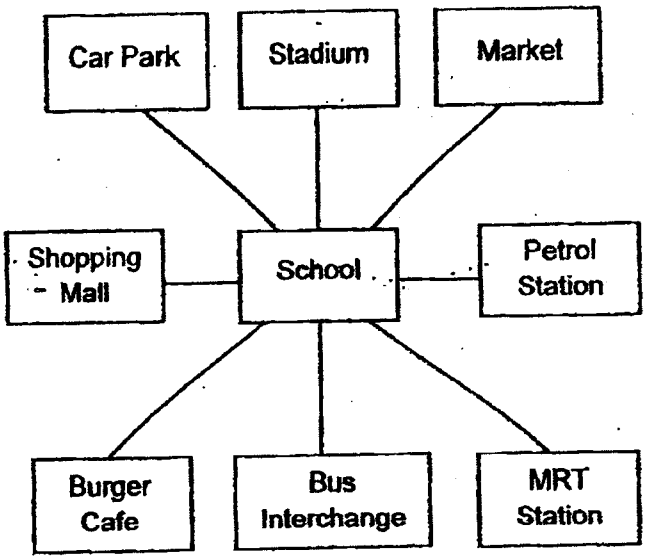
(1) 07 10

(2) 07 40

(3) 08 10

(4) 08 40

16 The diagram below shows the different locations near Siti's school.




Siti is at the school and faces the MRT station.
Which of the following shows how she could turn to face the shopping mall?

(1) 90° clockwise

(2) 135° anti-clockwise

(3) 180° clockwise

(4) 225° anti-clockwise

(Go on to the next page)

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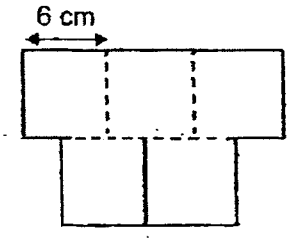
17 The figure below is made up of 5 identical squares. The length of one side of the square is 6 cm. What is the perimeter of the figure?



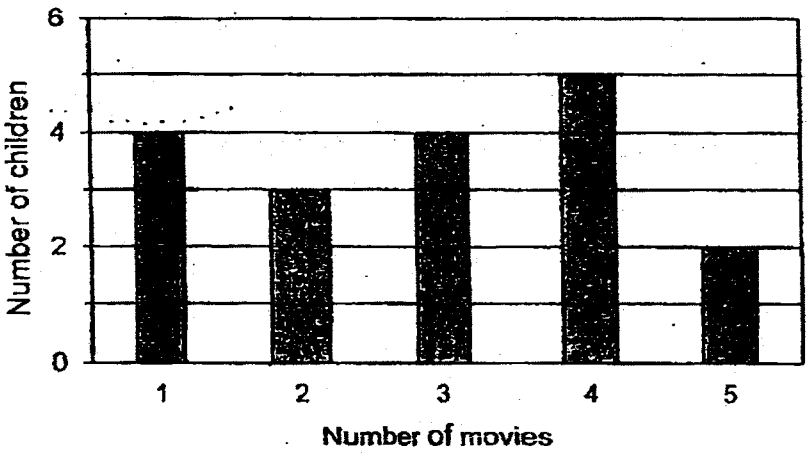

(1) 54 cm

(2) 60 cm

(3) 72 cm

(4) 90 cm

18 The bar graph shows the number of movies watched by a group of children during the holidays.




What fraction of the children watched at least 2 movies?

(1) $\frac{3}{18}$

(2) $\frac{7}{18}$

(3) $\frac{11}{18}$

(4) $\frac{14}{18}$

(Go on to Booklet B)

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# METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

## END OF YEAR EXAMINATION 2023
## PRIMARY 4
## MATHEMATICS

## BOOKLET B

Total Time for Booklets A to C: 1 hour 45 minutes

**INSTRUCTIONS TO CANDIDATES**

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.

Name: _____ (  )

Class: Primary 4. _____

Date: 30 October 2023

Parent's Signature: _____

| | |
|---|---|
| BOOKLET A | 36 |
| BOOKLET B | 36 |
| BOOKLET C | 28 |
| TOTAL | 100 |

This booklet consists of 9 printed pages including this page.

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Questions **19** to **36** 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. **(36 marks)**

Do not write in this space

**19** Write fifteen thousand and thirty-six in figures.

Ans: _____

**20** Write the missing number in the number pattern below.

14 000, 13 400, 12 800, 12 200, _____, 11 000

Ans: _____

**21** Some factors of 32 are 1, 2, 4 and 32.
What are the other two factors of 32?

Ans: _____ and _____

(Go on to the next page)

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Do not write in this space

22 What is the missing number in the box?

$$\frac{4}{7} = \frac{\square}{49}$$

Ans: _____

23 Arrange the following fractions from the greatest to the smallest.

$$\frac{1}{2} \quad , \quad \frac{2}{3} \quad \frac{7}{12}$$

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

24 Express 0.6 as a fraction.

Ans: _____

(Go on to the next page)

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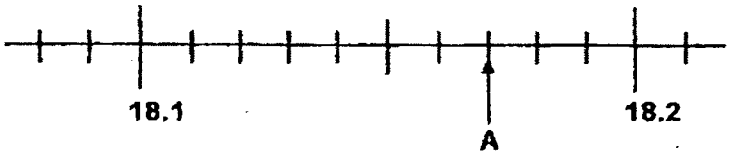
25 Write the decimal represented by A.




Do not write in this space

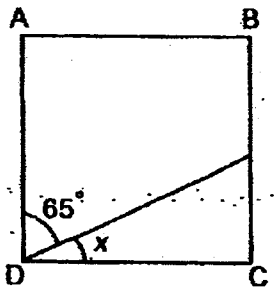
Ans: _____

26 What is the value of $\frac{5}{8} + \frac{3}{4}$?

Express your answer as a mixed number.

Ans: _____

27 ABCD is a square. Find $\angle x$.




Ans: _____

(Go on to the next page)

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28. Find the value of $20.7 \div 7$.
Round your answer to the nearest hundredths.

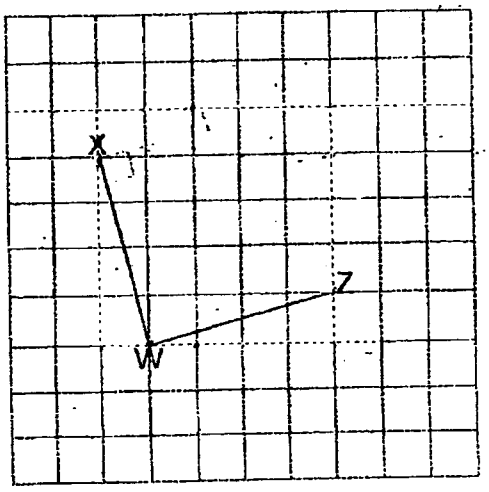
Do not write in this space

Ans: _____

29 A movie started at 11 35 and ended at 14 10.
How long was the movie?

Ans: _____ h _____ min

30 The square grid shows two lines, WX and WZ.
WX and WZ are also the sides of a square WXYZ.
Draw square WXYZ and label point Y.




(Go on to the next page)

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31 Mr Lee cuts a 5-m rope into three pieces, A, B and C.
Rope A measures 2.88 m and it is twice as long as rope B.
What is the length of rope C?

Do not write in this space

Ans: _____ m

32 A rectangle has a perimeter of 32 cm. The length is 3 times as long as its breadth. Find the area of the rectangle.

Ans: _____ $cm^2$

(Go on to the next page)

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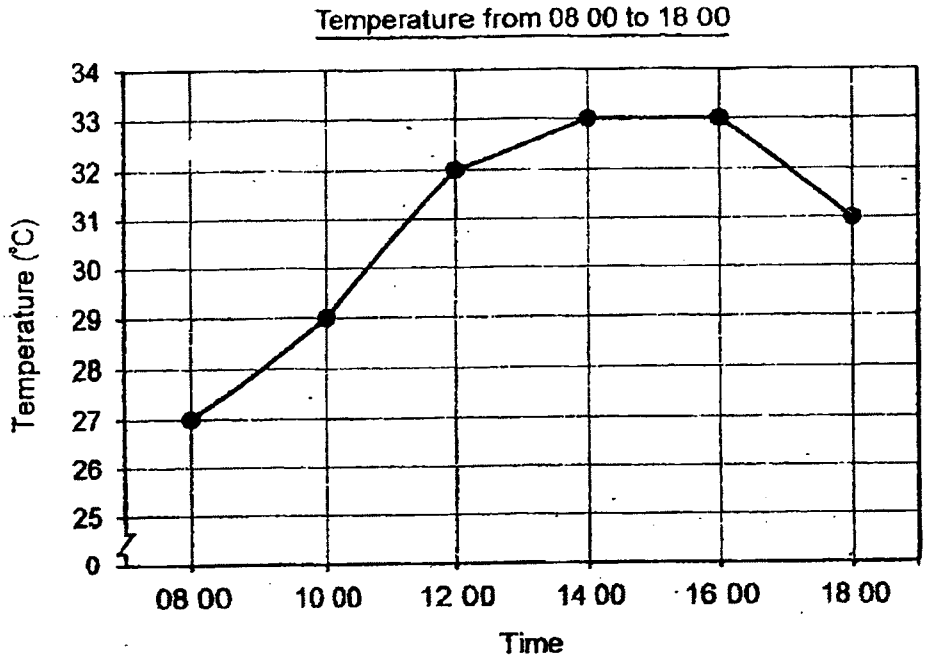
33 The line graph below shows the temperature from 08 00 to 18 00 last Friday.

Do not write in this space




(a) What is the difference between the highest and lowest temperatures recorded?

Ans: _____ °C [1]

(b) In which two-hour period was the change in temperature the greatest?

Ans: _____ to _____ [1]

(Go on to the next page)

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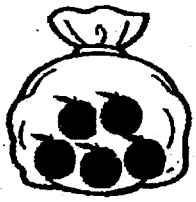
34 At a fruit stall, there were 150 more apples than pears.
After 46 pears were sold, there were 5 times as many apples as pears.
How many pears were there at first?

Do not write in this space

Ans: _____

35 Oranges are sold in bags of 5 at $6 for each bag or $1.50 for each orange.



5 oranges for $6

1 orange for $1.50

Mrs Rahim buys 28 oranges.
What is the least amount of money that she has to pay?

Ans: $ _____

(Go on to the next page)

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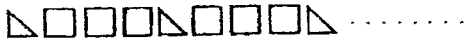
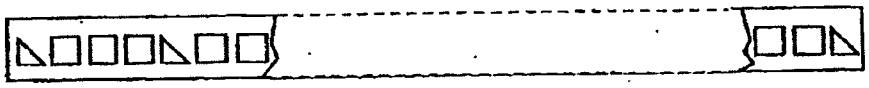
36 A pattern is formed by drawing 3 squares between every 2 triangles as shown below.



Tom used the pattern and drew a total of 81 shapes on a strip of paper from end to end. Part of it was torn off by accident.



How many squares were on the part that was torn off?

Do not write in this space

Ans: _____

(Go on to Booklet C)

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# METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

## END OF YEAR EXAMINATION 2023
## PRIMARY 4
## MATHEMATICS

## BOOKLET C

**Total Time for Booklets A to C: 1 hour 45 minutes**

**INSTRUCTIONS TO CANDIDATES**

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.

Name: _____ (  )

Class: Primary 4._____

Date: 30 October 2023

28

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Show your working clearly in the space provided for each question and write your answers in the space provided. The number of marks available is shown in the brackets [ ] at the end of each question or part question.

**(28 marks)**

Do not write in this space

37 Weijian had three times as much money as Xavier.
After Weijian bought 8 erasers at $1.30 each he had $3.85 left.

(a) How much money did Weijian have at first?

Ans: (a) _____ [2]

(b) How much money did Xavier have?

Ans: (b) _____ [2]

(Go on to the next page)

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38 A water container had 1 ℓ of water. Mr Muthu used $\frac{2}{5}$ ℓ of it to make a drink and $\frac{1}{4}$ ℓ of it to water his plants.

Do not write in this space

(a) How much water did Mr Muthu use altogether?

Ans: (a) _____ [2]

(b) How much water was left?

Ans: (b) _____ [1]

(Go on to the next page)

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39 Mrs Raja baked some cookies. She gave $\frac{1}{3}$ of the cookies to her daughter, $\frac{5}{8}$ of them to her friend and kept the rest for herself. Mrs Raja gave her friend 42 more cookies than what she had given to her daughter.

How many cookies did Mrs Raja bake?

Do not write in this space

Ans: _____ [3]

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40 The following patterns are made up of dots, stars and lines.

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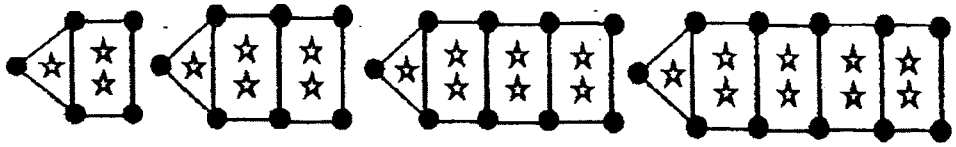

Pattern 1 Pattern 2 Pattern 3 Pattern 4

(a) Complete the table below to find the number of dots and lines in Pattern 5.

| Pattern | Total number of dots | Total number of stars | Total number of lines |
|---|---|---|---|
| 1 | 5 | 3 | 6 |
| 2 | 7 | 5 | 9 |
| 3 | 9 | 7 | 12 |
| 4 | 11 | 9 | 15 |
| 5 | (i) _____ | 11 | (ii) _____ |

[1]

(b) How many more lines than dots are there in Pattern 50?

Ans: (b) _____ [1]

(c) Which pattern number has 175 stars?

Ans: (c) _____ [2]

(Go on to the next page)

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41 The table below shows the prices and number of tickets sold for an art exhibition over 5 days.

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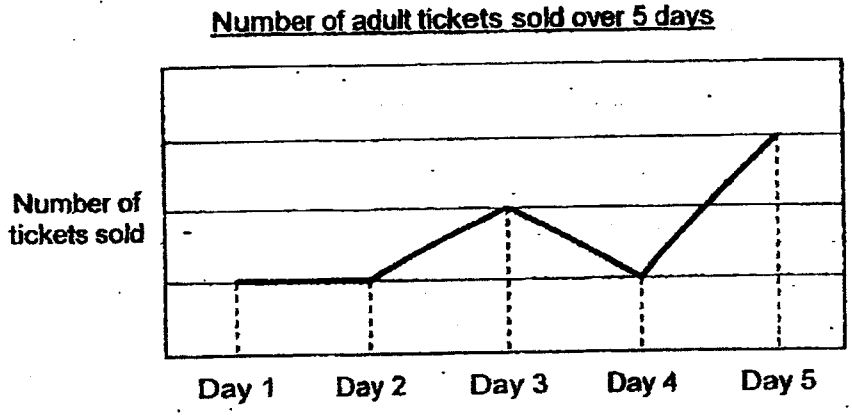
| Type | Total number of tickets sold | Price of a ticket |
|---|---|---|
| Adult | 168 | $11 |
| Child | ? | $5 |

(a) The total number of child tickets sold was $\frac{2}{3}$ of the total number of adult tickets. How many child tickets were sold over the 5 days?

Ans: (a) _____ [2]

(b) The line graph below shows the number of adult tickets sold over the 5 days.




How much money was collected from the sale of adult tickets on Day 4?

Ans: (b) _____ [2]

(Go on to the next page)

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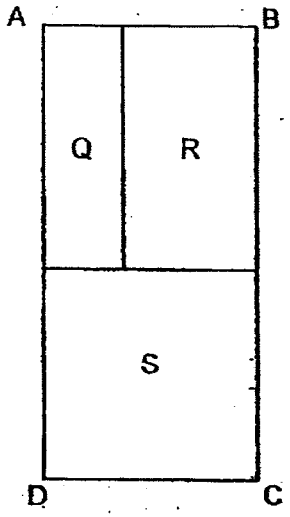
42 Rectangle ABCD is made up of square S and rectangles Q and R.
The area of rectangle Q is 27 $m^2$ and the area of rectangle R is 45 $m^2$.
The breadth of rectangle R is 2 m more than the breadth of rectangle Q.
Find the perimeter of rectangle ABCD.

Do not write in this space




Ans: _____ [3]

(Go on to the next page)

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43 Cynthia had two times as many $2 notes as $5 notes.
The total amount of money that Cynthia had was $243.
How many $2 notes did Cynthia have?

Do not write in this space

Ans: _____ [3]

(Go on to the next page)

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44 A figure is formed by overlapping 2 identical rectangles, ABCD and WXYZ. The total area of the 5 identical shaded squares is 245 $cm^2$. ZC is a straight line.

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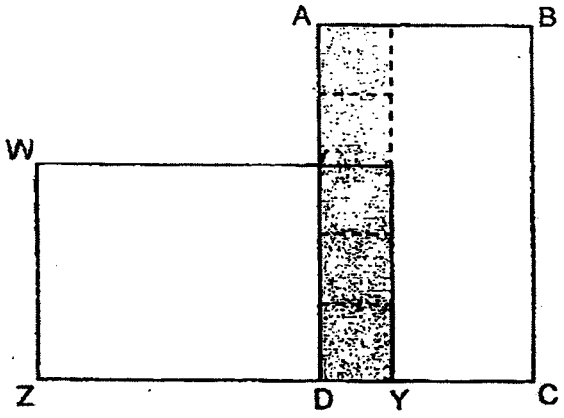


(a) What is the length of one side of a shaded square?

Ans: (a) _____ [2]

(b) Find the total area of the figure.

Ans: (b) _____ [2]

**END OF PAPER**

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SCHOOL : CATHOLIC HIGH SCHOOL
LEVEL : PRIMARY 4
SUBJECT : MATHEMATICS
TERM : 2023 SA2

CONTACT :

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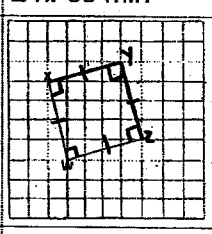
**BOOKLET A**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Q1 | 4 | Q2 | 2 | Q3 | 4 | Q4 | 1 | Q5 | 2 |
| Q6 | 1 | Q7 | 3 | Q8 | 4 | Q9 | 3 | Q10 | 2 |
| Q11 | 4 | Q12 | 2 | Q13 | 4 | Q14 | 4 | Q15 | 3 |
| Q16 | 4 | Q17 | 2 | Q18 | 4 | | | | |

**BOOKLET B**

| | |
|---|---|
| Q19 | 15036 |
| Q20 | 11600 |
| Q21 | 16 and 8 |
| Q22 | 28 |
| Q23 | $\frac{2}{3}$ , $\frac{7}{12}$ , $\frac{1}{2}$ |
| Q24 | $\frac{3}{5}$ |
| Q25 | 18.17 |
| Q26 | $1\frac{3}{8}$ |
| Q27 | 25° |
| Q28 | 2.96 |
| Q29 | 2 hr 35 min |
| Q30 |  |
| Q31 | 2u = 2.88<br>1u = 1.44<br>3u = 3 x 1.44 = 4.32 m<br>5 m - 4.32 m = **0.68 m** |



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| | |
|---|---|
| Q32 | 8u = 32 cm<br>1u = 4 cm<br>3u = 3 x 4 = 12 cm<br>12 x 4 = **48 cm²** |
| Q33a | 33 - 27 = **6°C** |
| Q33b | 10 00 to 12 00 |
| Q34 | 4u = 46 + 150 = 196<br>1u = 196 ÷ 4 = 49<br>Peas at first = 49 + 46 = **95** |
| Q35 | 28 ÷ 5 = 5 R 3 → 3 oranges, 5 packet bags<br>Least amount = 5 x $6 + 3 x $1.50 = **$34.50** |
| Q36 | 81 - 10 = 71<br>71 ÷ 4 = 17 R 3<br>17 x 3 + 2 = **53** |
| Q37a | $1.30 x 8 = $10.40<br>$10.40 + $3.85 = **$14.25** |
| Q37b | $14.25 ÷ 3 = **$4.75** |
| Q38a | $\frac{8}{20}\ell + \frac{5}{20}\ell = \frac{\mathbf{13}}{\mathbf{20}}\ell$ |
| Q38b | $1\ell - \frac{13}{20} = \frac{\mathbf{7}}{\mathbf{20}}\ell$ |
| Q39 | 15 - 8 = 7<br>7u = 42<br>1u = 6<br>24u = 24 x 6 = **144** |
| Q40a | i) 13 ii) 18 |
| Q40b | No. of lines = 3 + 3 x 50 = 153<br>No. of dots = 3 + 2 x 50 = 103<br>153 - 105 = **50** |
| Q40c | 175 - 1 = 174<br>174 ÷ 2 = **87** |
| Q41a | 168 ÷ 3 = 56<br>56 x 2 = **112** |
| Q41b | 168 ÷ 8 = 21<br>21 x $11 = **$231** |
| Q42 | 5 + 3 + 9 + 9 + 8 + 8 + 8 = **50 cm** |



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| | |
|---|---|
| Q43 | \$2 + \$2 + \$5 = \$9<br>\$243 ÷ \$9 = 27<br>27 x \$2 = **\$54** |
| Q44a | 245 $cm^2$ ÷ 5 = 49 $cm^2$<br>7 x 7 = 49<br>Ans: 7 cm |
| Q44b | 27 x 49 = **1323 $cm^2$** |



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