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# METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

## END OF YEAR EXAMINATION 2024
## PRIMARY 4
## MATHEMATICS

## PAPER 1
## BOOKLET A

Total Time for Booklets A, B and 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: 24 October 2024

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** The value of the digit 2 in 72 543 is _____.

(1) 20
(2) 200
(3) 2000
(4) 20 000

**2** Which number when rounded to the nearest ten becomes 72 400?

(1) 72 353
(2) 72 397
(3) 72 408
(4) 72 445

**3** $7\frac{5}{9} = \frac{\square}{9}$

What is the missing number in the box?

(1) 35
(2) 58
(3) 63
(4) 68

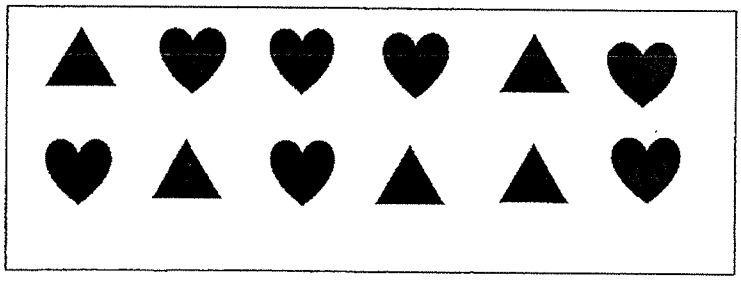
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4 What fraction of the shapes are ♥ ?



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

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

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

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

5 10.74 x 8 = _____

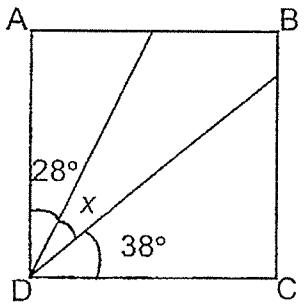
(1) 85.92

(2) 80.92

(3) 80.74

(4) 18.74

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




(1) 66°

(2) 62°

(3) 52°

(4) 24°

7 The sum of 73 tens and _____ is 1000.

(1) 270

(2) 927

(3) 1073

(4) 1730

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8 A number when divided by 4 has a quotient of 84 and a remainder of 3. What is the number?

(1) 21
(2) 24
(3) 333
(4) 339

9 There are 210 children in a school. $\frac{4}{7}$ of them take the school bus to school. $\frac{1}{7}$ of them walk to school. How many more children take the school bus than walk to school?

(1) 30
(2) 60
(3) 90
(4) 120

10 Sarah jogged 4.8 km on Saturday. She jogged 0.35 km more on Sunday than on Saturday. What was the total distance Sarah jogged on both days?

(1) 4.45 km
(2) 5.15 km
(3) 9.25 km
(4) 9.95 km

11 The perimeter of a rectangle is 48 cm. Its length is three times as long as its breadth. What is the length of the rectangle?

(1) 6 cm
(2) 12 cm
(3) 18 cm
(4) 36 cm

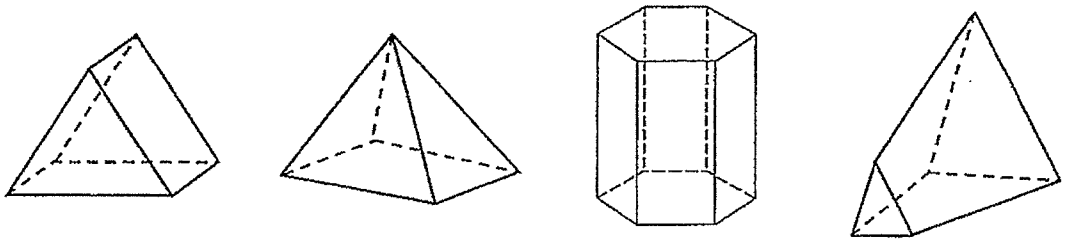
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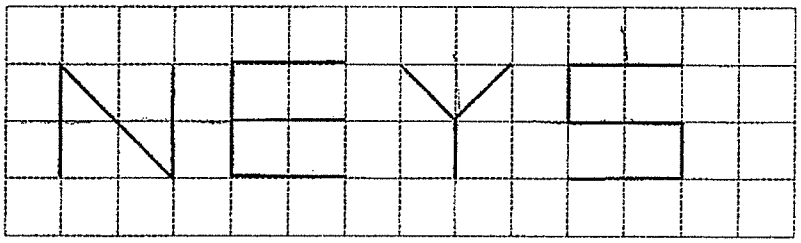
12 Which of the following geometric figures are prisms?



A B C D

(1) A and B
(2) A and C
(3) B and D
(4) A and D

13 In the diagram below, the letters N, E, Y, and S are drawn on a square grid.



Which of the letters above have only 1 line of symmetry?

(1) N and E
(2) E and Y
(3) Y and S
(4) N and S

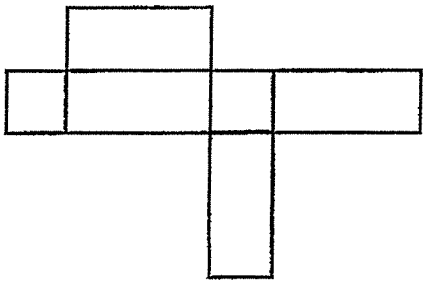
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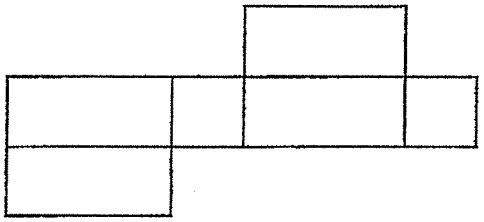
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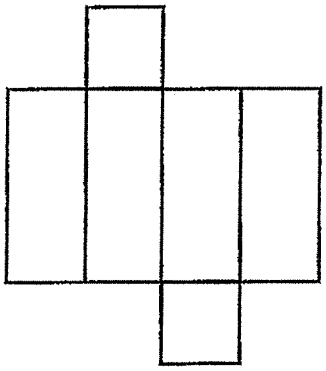
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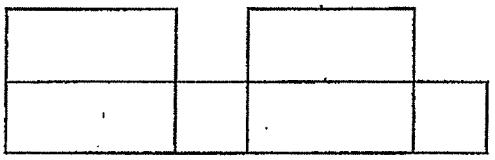


**14** Which one of the following is **not** a net of a cuboid?

(1) 

(2) 

(3) 

(4) 

**15** The table below shows the number of books borrowed by some students from the library.

| Number of books borrowed | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Number of students | 4 | 8 | 13 | 14 | 5 |

How many students borrowed at least 2 books?

(1) 12

(2) 13

(3) 25

(4) 32

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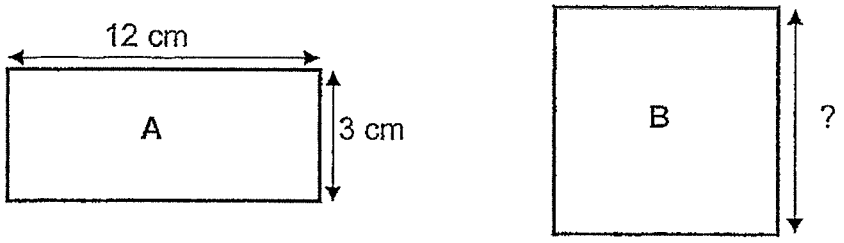
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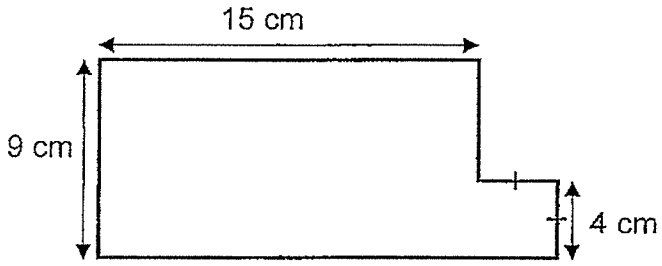


16 The area of Rectangle A is equal to the area of Square B.
Find the length of Square B.




(1) 6 cm
(2) 9 cm
(3) 24 cm
(4) 36 cm

17 The figure below is made up of straight lines that meet at right angles.
Find the perimeter of the figure.




(1) 28 cm
(2) 56 cm
(3) 60 cm
(4) 64 cm

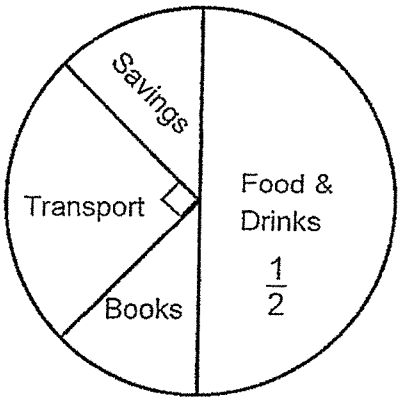
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18 The pie chart shows how Mark used his monthly pocket money. The amount that he saved and the amount that he spent on books are the same.




What fraction of Mark's monthly pocket money did he save?

(1) $\frac{1}{8}$

(2) $\frac{1}{6}$

(3) $\frac{1}{4}$

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

(Go on to Booklet B)

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# METHODIST GIRLS' SCHOOL (PRIMARY)

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## END OF YEAR EXAMINATION 2024
## PRIMARY 4
## MATHEMATICS

## BOOKLET B

Total Time for Booklets A, B and 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: 24 October 2024

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

Parent's Signature: _____

This booklet consists of **10** 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 thirteen thousand and forty-three in numerals.

Ans: _____

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

2538 , 2688 , 2838 , _____ , 3138

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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22 Which two of the fractions below are greater than $\frac{1}{2}$?

$\frac{2}{3}$ , $\frac{3}{6}$ , $\frac{4}{9}$ , $\frac{6}{11}$

Ans: _____ and _____

Do not write in this space

23 What is the value of $\frac{5}{6} + \frac{7}{12}$?

Express your answers as a mixed number.

Ans: _____

24 Express $\frac{86}{100}$ as a decimal.

Ans: _____

(Go on to the next page)

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25 Arrange these numbers from the greatest to the smallest.

Do not write in this space

0.078 , 0.807 , 0.708

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

26 8.4 – 0.95 = _____

Ans: _____

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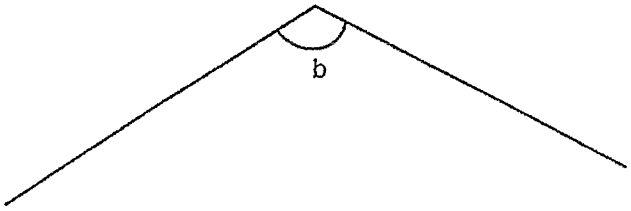
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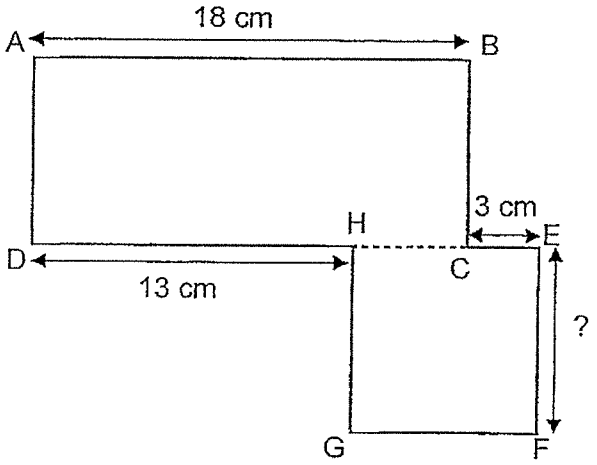
27 Measure and write down the size of ∠b.

Do not write in this space




Ans: _____ °

28 The figure is made up of rectangle ABCD and square EFGH.




Find the length of EF.

Ans: _____ cm

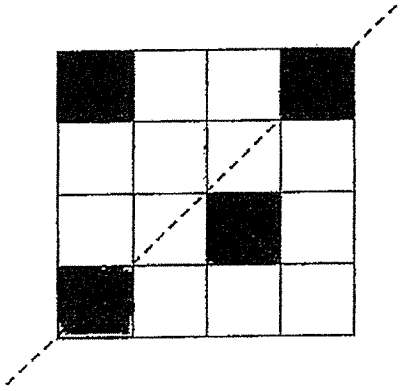
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29 The dotted line is the line of symmetry.
Shade 2 squares to make the figure symmetric.



Do not write in this space

30 At a cinema, an adult ticket costs $6 more than a child ticket. Mr Lim and his family bought 2 adult tickets and 4 child tickets for $51. How much does an adult ticket cost?

Ans: $ _____

(Go on to the next page)

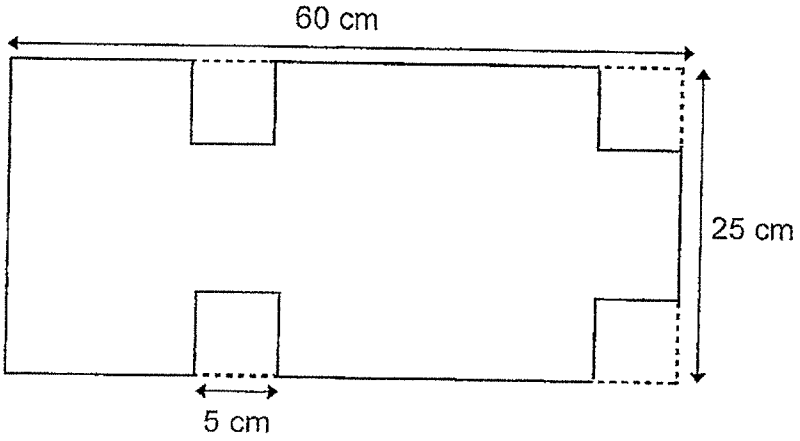
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31 Four identical 5–cm squares were cut out from a rectangular piece of paper measuring 60 cm by 25 cm as shown below. Find the perimeter of the remaining piece of paper.

Do not write in this space




Ans: _____ cm

32 Grace has some yellow and blue balls. Balls of the same colour have the same mass. The mass of 1 blue ball and 1 yellow ball is 1.25 kg. The mass of 1 blue ball and 3 yellow balls is 2.85 kg.
What is the mass of one yellow ball?

Ans: _____ kg

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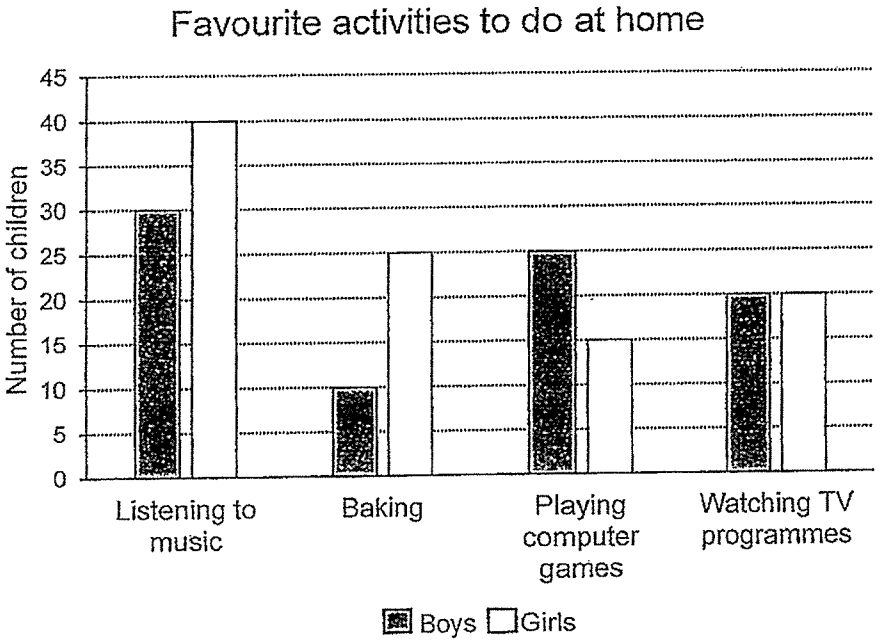
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**33** The bar graph shows some children's favourite activities to do at home.

Do not write in this space




(a) Complete the table below.

| Activities | Boys | Girls |
|---|---|---|
| Listening to music | (i)_____ | 40 |
| Baking | 10 | 25 |
| Playing computer games | 25 | 15 |
| Watching TV programmes | 20 | (ii)_____ |

(b) Which activity is liked by more boys than girls?

Ans: _____

(Go on to the next page)

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34 The first 14 letters of a pattern are given below.

**M G S P M G S P M G S P M G**

1st 14th

What is the letter in the 30th position?

Ans: _____

35 Torch A flashes every 4 minutes.
Torch B flashes every 6 minutes.
Torch A and Torch B flashed together at 7.30 a.m.
At what time would both torches next flash together?

Ans: _____

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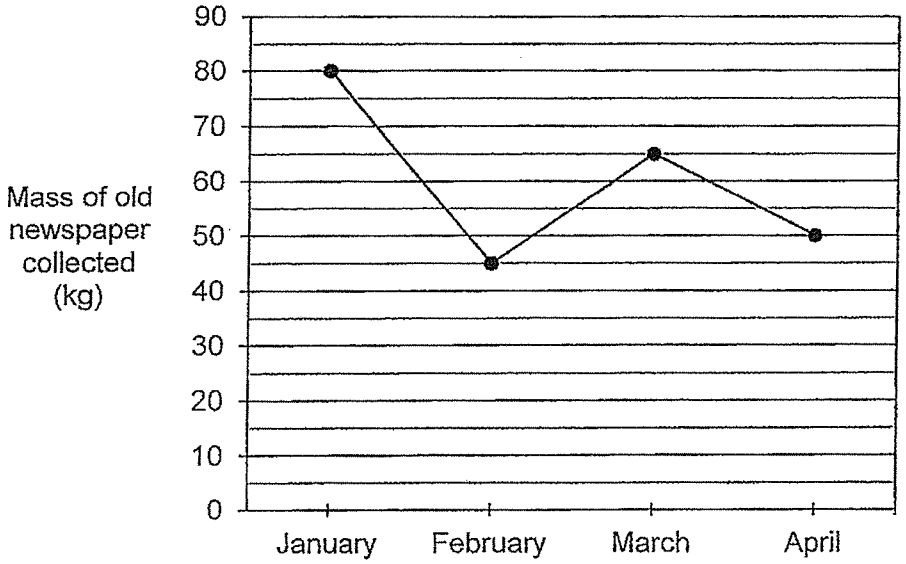
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36 The line graph below shows the mass of old newspapers collected from an estate from January to April.

Do not write in this space




(a) Between which 2 months was the decrease in the mass of the old newspapers collected the greatest?

Ans: _____ and _____

(b) How much was the increase in mass of the old newspapers collected from February to March?

Ans: _____ kg

(Go on to Booklet C)

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METHODIST GIRLS' SCHOOL (PRIMARY)
Founded in 1887

# END OF YEAR EXAMINATION 2024
# PRIMARY 4
# MATHEMATICS

## BOOKLET C

Total Time for Booklets A, B and 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 : 24 October 2024

| |
|---|
| 28 |

Parent's Signature: _____

This booklet consists of **9** printed pages including this page.

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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** Mrs Lee bought 2 m of cloth. She gave $\frac{2}{5}$ m of the cloth to Mrs Lim and $\frac{1}{4}$ m of the cloth to Mrs Teo. What was the length of cloth Mrs Lee had left?

Ans: _____ [3]

(Go on to the next page)

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38 The table shows the number of different types of flowers in a shop.

Do not write in this space

| Type of flowers | Quantity |
|---|---|
| Roses | ? |
| Tulips | 15 |
| Orchid | 20 |

(a) $\frac{1}{3}$ of the tulips were sold for $42. Each tulip was sold at the same price. What was the cost of 1 tulip?

Ans: (a) _____ [2]

(b) $\frac{1}{4}$ of all the flowers in the shop were orchids. How many roses were there in the shop?

Ans: (b) _____ [2]

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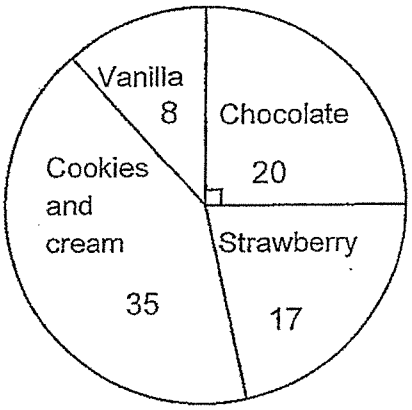
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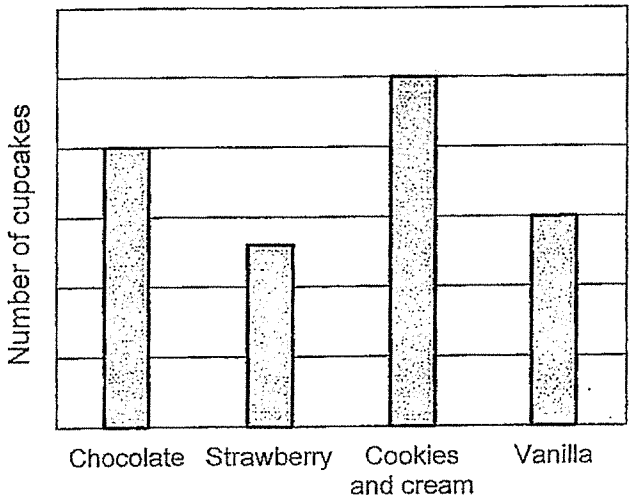
**39** The pie chart shows the number of the different flavours of cupcakes sold in Shop A. The bar graph shows the same flavours sold in Shop B.

Do not write in this space

Shop A




Shop B




(a) What fraction of the cupcakes sold in Shop A is cookies and cream flavour? Express your answer in the simplest form.

Ans: _____ [1]

(b) Both Shop A and Shop B sold the same number chocolate cupcakes. How many vanilla cupcakes did Shop B sell?

Ans: _____ [2]

(Go on to the next page)

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40 Lily baked some muffins for sale.
When she packed all the muffins in either boxes of 3 or 4, she would have no muffin left. When she packed all the muffins in boxes of 5, she would have 1 muffin left. What was the least number of muffins that she had baked?

Do not write in this space

Ans: _____ [3]

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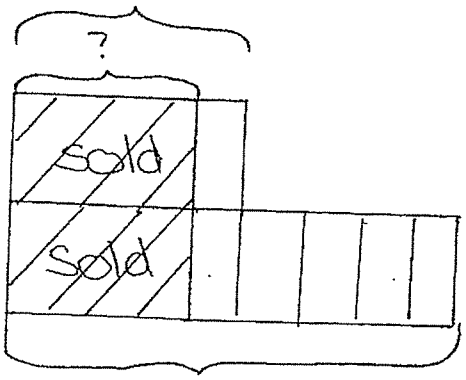
41 A fruit seller had 2374 mangoes and 1538 pears at first. After selling the same number of mangoes and pears, he had 5 times as many mangoes as pears left.

Do not write in this space

(a) How many more mangoes than pears did he have at first?

Ans: (a) _____ [1]

(b) How many pears did he sell?




Ans: (b) _____ [2]

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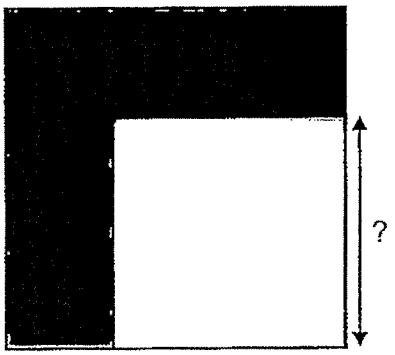
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42 The figure is made up of 2 squares. The perimeter of the shaded part is 72 cm and the area of the shaded part is 180 cm².

Do not write in this space




(a) What is the area of the bigger square?

Ans: (a) _____ [2]

(b) What is the length of one side of the unshaded square?

Ans: (b) _____ [2]

(Go on to the next page)

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43 Xiu Li bought 3 files and 2 pens for $18.
The cost of a file is twice the cost of a pen.

Do not write in this space

(a) What was the cost of each pen?

Ans: (a) _____ [2]

(b) What was the total cost of the 3 files?

Ans: (b) _____ [2]

(Go on to the next page)

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44 Rectangle PQRS in Figure A is made up of 4 smaller identical rectangles. PQ is 20 cm. The 4 identical rectangles are rearranged to form figure B.

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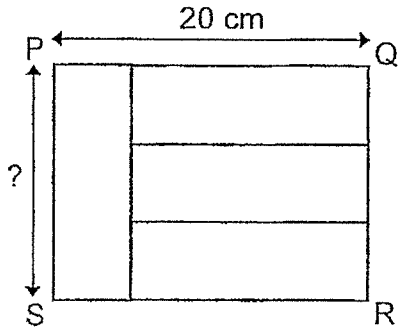



Figure A

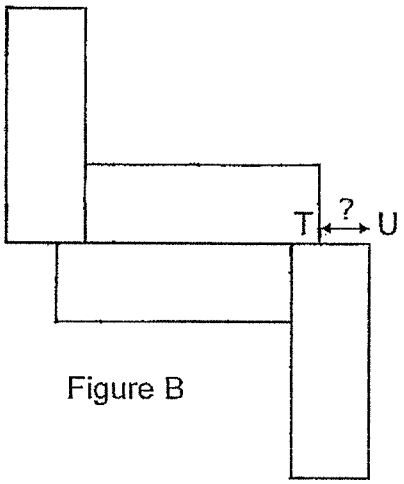



Figure B

(a) What is the length of PS?

Ans: (a) _____ [2]

(b) The perimeter of figure B is 106 cm. What is the length of TU?

Ans: (b) _____ [2]

END OF PAPER

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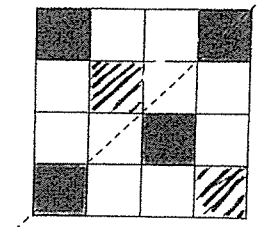
# ANSWER KEY

YEAR : 2024
LEVEL : PRIMARY 4
SCHOOL : MGS
SUBJECT : MATHEMATICS
TERM : EOY

## BOOKLET A

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

## BOOKLET B

| | | | |
|---|---|---|---|
| Q19 | 13043 | Q20 | 2988 |
| Q21 | 16 and 8 | Q22 | $\frac{2}{3}$ and $\frac{6}{11}$ |
| Q23 | $\frac{5}{6}+\frac{7}{12}=\frac{10}{12}+\frac{7}{12}=\frac{17}{12}=1\frac{5}{12}$<br>$1\frac{5}{12}$ | Q24 | 0.86 |
| Q25 | 0.807 , 0.708 , 0.078 | Q26 | 7.45 |
| Q27 | 120° | Q28 | 18 – 13 = 5<br>5 + 3 = 8cm |
| Q29 |  | Q30 | A+A+C+C+C+C=$51<br>$51 - $6 - $6 = $39<br>39÷ 6 = $6.50<br>$6.50 + 6.00 =$12.50 |
| Q31 | 60 + 25 + 60 + 25 = 170<br>170 + 5 + 5 = 180<br>180 + 5 + 5 = 190cm | Q32 | 1B + 1Y = 1.25<br>1B + 3Y = 2.85<br>2.85 – 1.25 = 1.60<br>1.60 ÷ 2 = 0.80kg |
| Q33 | a) i. 30<br>ii. 20<br>b) playing computer games | Q34 | 30 ÷ 4 = 7R2<br>ANS : G |
| Q35 | 7.42am | Q36 | a) January and February<br>b) 65 – 45 = 20kg |



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## BOOKLET C

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|---|---|---|---|
| Q37 | $\frac{2}{5}+\frac{1}{4}=\frac{8}{20}+\frac{5}{20}=\frac{13}{20}$<br>1- $\frac{13}{20}=\frac{7}{20}$<br>$\frac{7}{20}+1=1\frac{7}{20}$ m | Q38 | a) 15 ÷ 3 = 5<br>42 ÷ 5 = $8.40<br>b) 20 x 4 = 80<br>15 + 20 = 35<br>80 – 35 = 45 |
| Q39 | a) 8 + 20 = 28<br>28 + 17 = 45<br>45 + 35 = 80<br>$\frac{35}{80}=\frac{7}{16}$<br>b) 5 x 3 = 15 | Q40 | 36 |
| Q41 | a) 2374 – 1538 = 836<br>b) 2374 – X = 5(1538 – X)<br>2374 – X = 7690 – 5X<br>2374 + 4X = 7690<br>4X = 7690 – 2374 = 5316<br>X = 1329 | Q42 | a) Area of bigger square<br>$18^2$ = 324<br>b) $x^2 - y^2 = 180$<br>$324 - y^2 = 180$<br>$y^2 = 144$<br>$y = 12$ |
| Q43 | a) 18 ÷ 8 = $2.25<br>b) 2.25 x 6 = $13.50 | Q44 | a) 20 ÷ 4 = 5<br>5 x 3 = 15cm<br>b) 2TU + 5 +10 +15 +5 + 15 +5 +10 +15 +5 +15 =106cm<br>2TU = 6<br>TU = 3 |

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END

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