# PAYA LEBAR METHODIST GIRLS' SCHOOL (PRIMARY)

## END–OF–YEAR EXAMINATION 2023

## PRIMARY FOUR

## MATHEMATICS
**Paper 1**

Name: _____ (  )

Class: Primary 4 _____

Date: 27 October 2023

Total Time for Sections A, B and C: 1 hour 45 minutes

**INSTRUCTIONS TO CANDIDATES**

1. Do not turn over this page until you are told to do so.
2. Follow all the instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.
5. All the figures in this paper are **not drawn to scale** unless stated otherwise.

| | Marks Obtained / Maximum Marks |
|---|---|
| SECTION A | / 32 |
| SECTION B & C | / 68 |
| TOTAL | / 100 |

**PARENT'S SIGNATURE:** _____

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Questions 1 to 16 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. (32 marks)

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1. Which of the following is a factor of both 18 and 27?

(1) 27 (2) 18

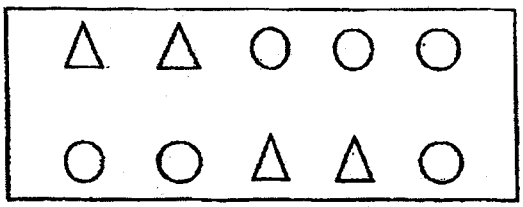
(3) 9 (4) 6 ( )

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

(1) 72 443 (2) 72 495

(3) 72 539 (4) 72 554 ( )

3. What fraction of the shapes in the box are ○?



(1) $\frac{4}{10}$ (2) $\frac{4}{6}$

(3) $\frac{6}{4}$ (4) $\frac{6}{10}$ ( )



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4.

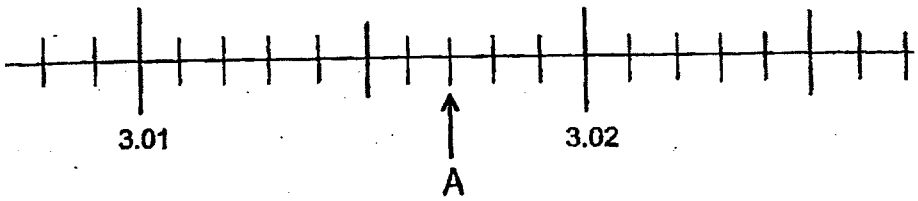
$$6\frac{4}{7} = \frac{\square}{7}$$

What is the missing number in the box?

(1) 24 (2) 38

(3) 42 (4) 46 (  )

5. Which of the following decimals is represented by letter A in the number line?




(1) 3.012 (2) 3.017

(3) 3.023 (4) 3.027 (  )

6. Express 0.05 as a fraction in its simplest form.

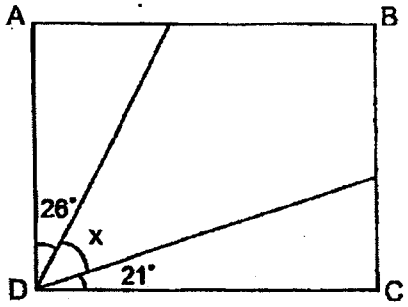
(1) $\frac{1}{20}$ (2) $\frac{1}{2}$

(3) $\frac{1}{10}$ (4) $\frac{1}{5}$ (  )



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7. In the figure shown, ABCD is a rectangle. Find $\angle x$.




(1) 43°
(2) 47°
(3) 64°
(4) 69°
( )

8. The table shows the prices of tickets to a theme park.

| Theme Park | |
|---|---|
| | **Price Per Ticket** |
| Adult | $15 |
| Child | $9 |

Mrs Tan wants to buy tickets for two adults and three children.
How much does she have to pay in total?

(1) $24
(2) $30
(3) $57
(4) $63
( )



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9. The table below shows 4 different types of CCA that 225 children participated in.

Each child participated only in one CCA.

| Type of CCA | Number of Children |
|---|---|
| Rope Skipping | ? |
| Gymnastics | 73 |
| International Dance | 50 |
| Girls' Brigade | 64 |

How many children participated in Rope Skipping?

(1) 38 (2) 40

(3) 162 (4) 187 ( )

10. Which of the following fractions has the value closest to 1?

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

(3) $\frac{5}{6}$ (4) $\frac{7}{8}$ ( )

11. Jamie bought 8 boxes of biscuits. Each box of biscuits cost $1.20.
She gave the cashier $50. How much change did Jamie receive?

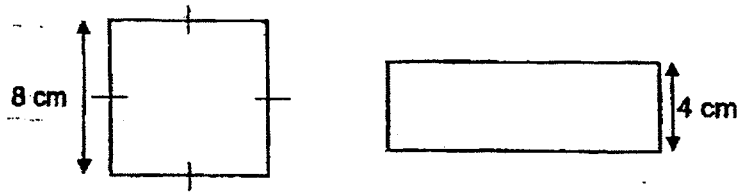
(1) $9.20 (2) $9.60

(3) $40.40 (4) $41.60 ( )



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12. Both the square and rectangle have the same area.
Find the perimeter of the rectangle given that its breadth is 4 cm.




(1) 16 cm (2) 20 cm

(3) 40 cm (4) 64 cm ( )

13. Harun and Ming Hui started reading their storybooks at 9.45 a.m..
Harun took 1 h 20 min to finish reading his storybook. He took 25 min longer than Ming Hui. At what time did Ming Hui finish reading his storybook?

(1) 10.20 a.m. (2) 10.40 a.m.

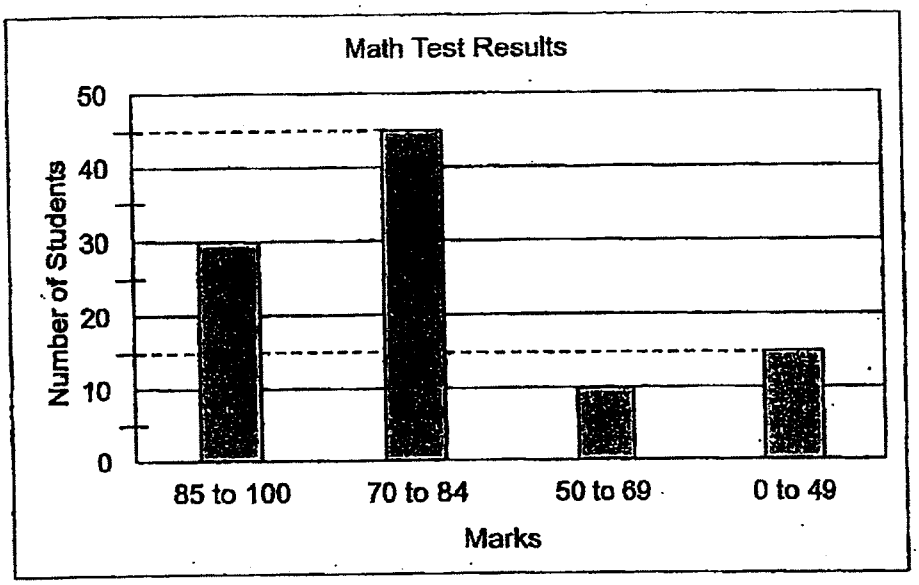
(3) 11.05 a.m. (4) 11.30 a.m. ( )



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*Use the information below to answer Question 14.*

The graph below shows the Math test results of 100 students.

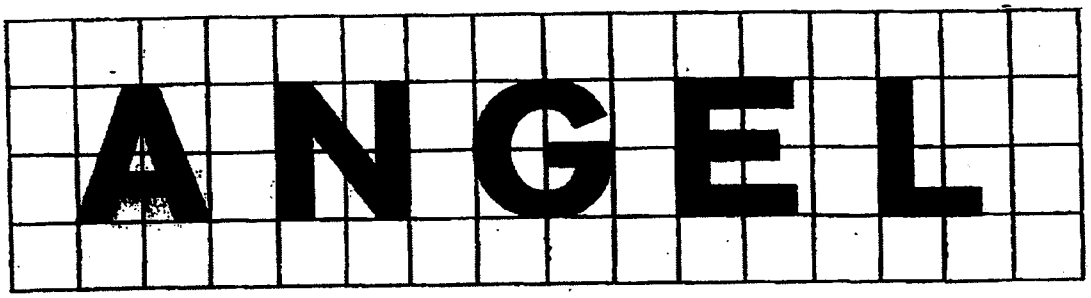



14. How many students scored below 70 marks?

(1) 10 (2) 15

(3) 25 (4) 45 ( )

15. How many letters in the following word have a line of symmetry?



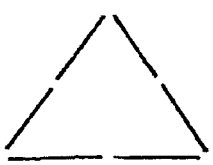

(1) 5 (2) 2

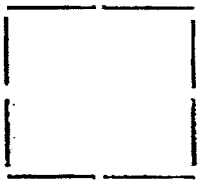
(3) 3 (4) 4 ( )



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16. Olivia used sticks to make triangles and squares.
She used 6 sticks for each triangle and 8 sticks for each square as shown below.





Olivia made the same number of triangles and squares. She used 14 more sticks to make the squares than the triangles. How many triangles did she make?

(1) 7 (2) 8

(3) 3 (4) 4 ( )

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**End of Booklet A**



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# PAYA LEBAR METHODIST GIRLS' SCHOOL (PRIMARY)

## END–OF–YEAR EXAMINATION 2023

## PRIMARY FOUR

## MATHEMATICS
**Paper 2**

Name: _____ (  )

Class: Primary 4 _____

Date: 27 October 2023

Total Time for Sections A, B and C: 1 hour 45 minutes

## INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all the instructions carefully.
3. Answer all questions.
4. All the figures in this paper are **not drawn to scale** unless stated otherwise.

| | Marks Obtained / Maximum Marks |
|---|---|
| SECTION B | / 40 |
| SECTION C | / 28 |
| TOTAL | / 68 |

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## SECTION B

Questions 17 to 36 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

**(40 marks)**

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17. Write thirteen thousand and twenty-six in figures.

Ans: _____

18. Write the missing number in the number pattern below.

14 100, 13 200, 12 300, 11 400, _____, 9600

Ans: _____

19. What is the remainder when 1536 is divided by 7?

Ans: _____



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20. Which two of the fractions below are equivalent to $\frac{6}{8}$ ?

| | | | |
|---|---|---|---|
| $\frac{12}{16}$ | $\frac{5}{7}$ | $\frac{4}{5}$ | $\frac{3}{4}$ |

Ans: _____ and _____

21. What is the value of $\frac{5}{6} + \frac{2}{3}$ ?

Express your answer as a mixed number.

Ans: _____

22. Write 5 thousandths as a decimal.

Ans: _____

23. Round 23.51 to the nearest whole number.

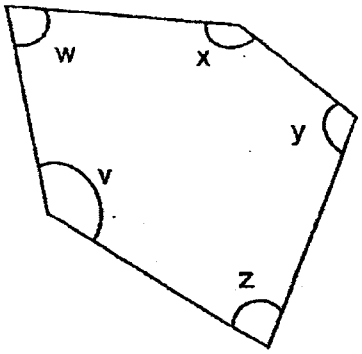
Ans: _____



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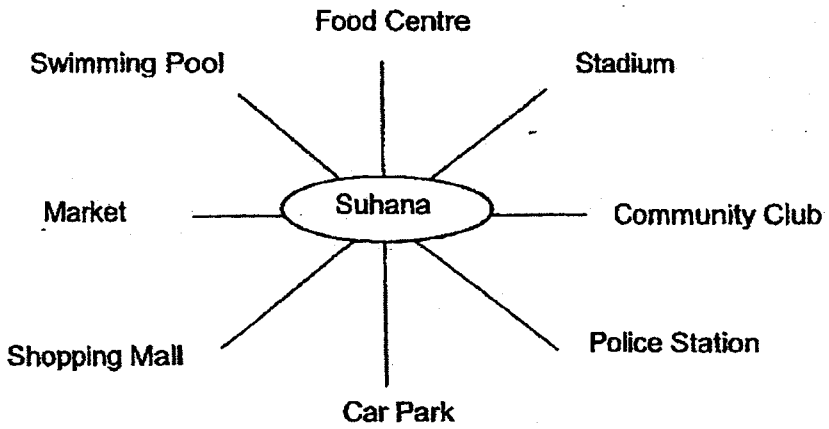
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24. In the figure below, name the two angles that are smaller than 90°.




Ans: ∠_____ and ∠_____

25. Suhana is facing the Police Station after making a $\frac{3}{4}$ anti-clockwise turn. Where was she facing at first?




Ans: _____

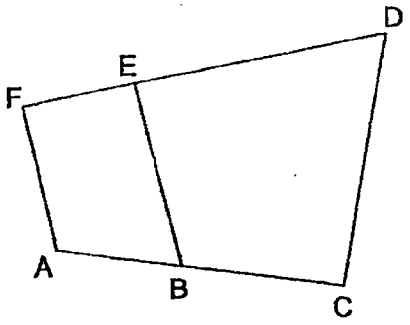


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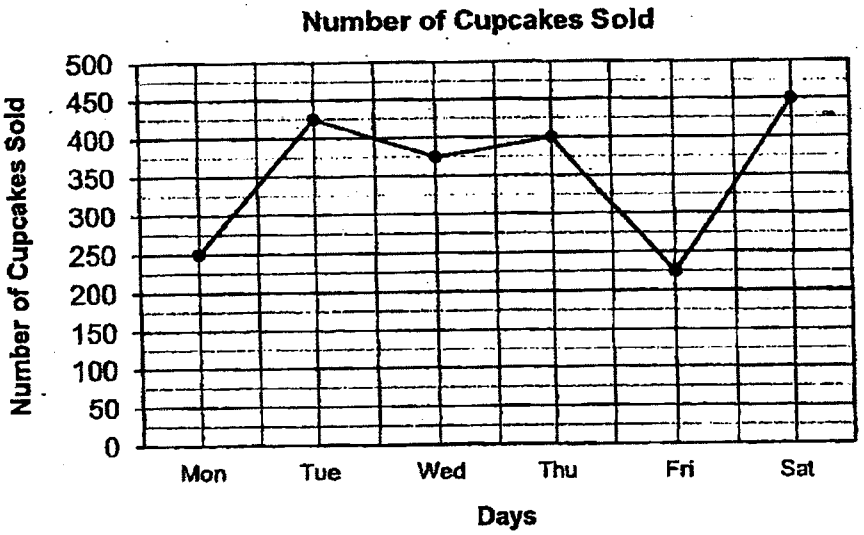
26. In the figure, one of the lines is parallel to BE.

Which line is parallel to BE?




Ans: _____

27. The line graph below shows the number of cupcakes sold in a shop over a period of 6 days.




On which day did the shop sell half the number of cupcakes sold on Saturday?

Ans: _____



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28. At a funfair, $\frac{5}{12}$ of the people were children, $\frac{1}{3}$ of the people were men and the rest were women. What fraction of the people were women? Express your answer as a fraction in its simplest form.

Do not write in this space

Ans: _____

29. Express $3 \div 7$ as a decimal. Round your answer to the nearest hundredth.

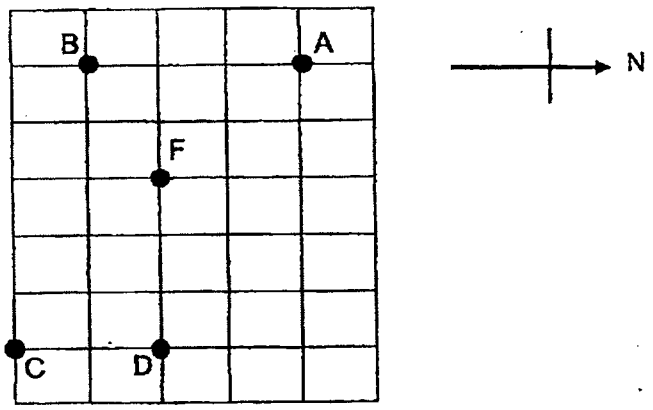
Ans: _____



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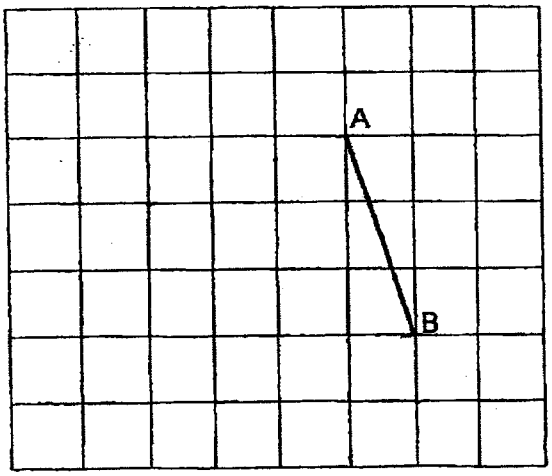
30. Eliza is standing at Point F and facing south.
She makes a 135° clockwise turn.
Which point (A, B, C or D) would she be facing?

Do not write in this space




Ans: _____

31. One side of Square ABCD is drawn in the square grid.
Draw three straight lines to complete the square and label the missing points.

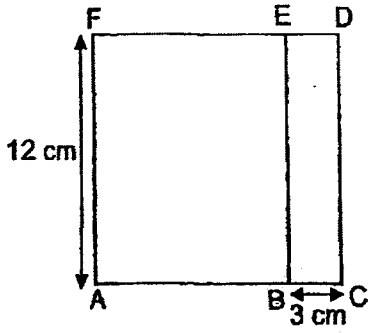





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32. In the figure below, ACDF is a square. ABEF and BCDE are rectangles. AF is 12 cm and BC is 3 cm. Find the area of rectangle ABEF.

Do not write in this space




Ans: _____ $cm^2$

33. A train took 2 h 25 min to travel from Station A to Station B. It arrived at Station B at 23 45. What time did the train leave Station A? Express your answer using the 24-hour clock.

Ans: _____



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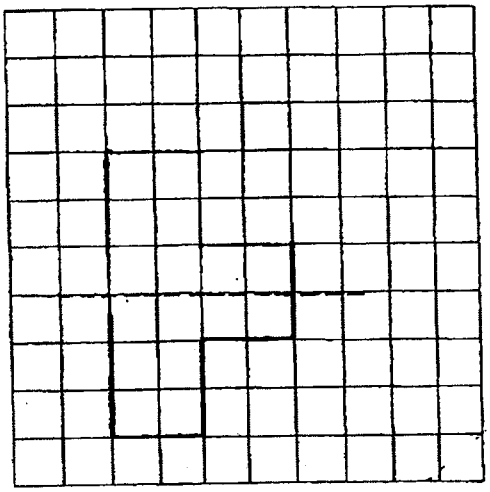
34. The table below shows the number of stickers collected by each pupil in a group. Part of the table is covered by an ink blot. There were 87 pupils who collected at least 70 stickers.

| Number of stickers | 50 | 60 | 70 | 80 | 90 |
|---|---|---|---|---|---|
| Number of pupils | 25 | 34 | 19 | | |

How many pupils in total collected 80 and 90 stickers?

Ans: _____

35. Complete the figure on the grid such that it has **only** one line of symmetry. The completed figure is made up of a square and a rectangle.

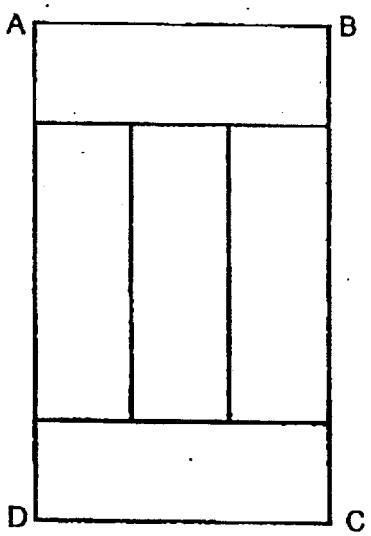




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36. The figure below is made up of 5 identical rectangles. The perimeter of each rectangle is 48 cm. Find the length of AD.

Do not write in this space




Ans: _____ cm



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## SECTION C

Do not write in this space

For questions **37** 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.

**(28 marks)**

37. A pair of trousers cost $132. It cost $27 more than a shirt.
Mr Lee bought a pair of trousers and 4 shirts.

(a) How much did a shirt cost?

Ans: (a) _____ [2]

(b) How much did Mr Lee pay for a pair of trousers and 4 shirts altogether?

Ans: (b) _____ [2]



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38. Study the figures below carefully.

Do not write in this space



Figure 1 Figure 2 Figure 3 Figure 4

| Figure Number | Grey squares | White squares | Total number of squares |
|---|---|---|---|
| 1 | 3 | 1 | 4 |
| 2 | 4 | 2 | 6 |
| 3 | 5 | 3 | 8 |
| 4 | 6 | 4 | 10 |
| 5 | 7 | (a) (i)_____ | (a) (ii)_____ |

[1]

(a) Complete the table for Figure 5.

(b) How many grey squares will there be in Figure 8?

Ans: (b) _____ [1]

(c) How many squares are needed to form Figure 15?

Ans: (c) _____ [2]



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Do not write in this space

39. There were some stickers in a box. Mariam took $\frac{3}{8}$ of the stickers and Amy took the rest. Mariam took 36 fewer stickers than Amy.

(a) What fraction of the stickers did Amy take?

Ans: (a) _____ [1]

(b) How many stickers were in the box in total?

Ans: (b) _____ [3]



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40: Peter has a string of 130.5 cm long. He tied stars on the string. Part of the string is as shown below. The distance between 2 stars is 9 cm.

Do not write in this space




(a) What is the length of the string between the 1st and 6th star?

Ans: (a) _____ [1]

(b) Find the most number of stars Peter can tie on the string.

Ans: (b) _____ [3]



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41. Ahmad and Jack had the same amount of money at first. After Ahmad had spent $37 and Jack had received $15, Jack had 3 times as much money as Ahmad in the end.

Do not write in this space

(a) How much more money did Jack have than Ahmad in the end?

Ans: (a) _____ [2]

(b) How much money did Jack have at first?

Ans: (b) _____ [2]



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42. Tina saved some money from Monday to Friday. Each day, she saved $1 more than the previous day. At the end of Wednesday, she saved a total of $38.70.

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(a) How much money did Tina save on Wednesday?

Ans: (a) _____ [2]

(b) How much money did she save on Friday?

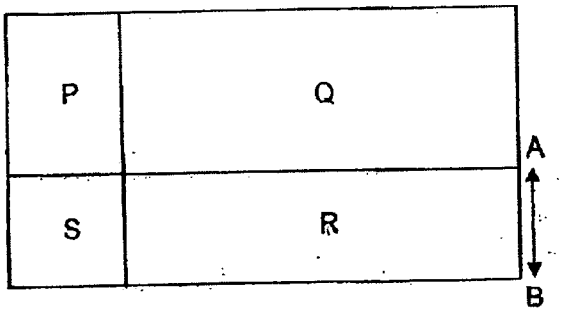
Ans: (b) _____ [2]



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43. The figure below is made up of Rectangle P, Rectangle Q, Rectangle R and Square S. The perimeter of Rectangle Q is 40 cm.
The perimeter of the figure is 72 cm.

Do not write in this space




(a) Find the length of AB.

Ans: (a) _____ [3]

(b) Find the area of Square S.

Ans: (b) _____ [1]

**End of Paper 2**



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LEVEL : PRIMARY 4
SUBJECT : MATHEMATICS
TERM : 2023 SA2

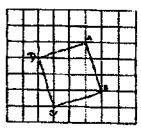
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**BOOKLET A**

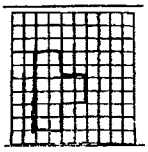
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Q1 | 3 | Q2 | 2 | Q3 | 4 | Q4 | 4 | Q5 | 2 |
| Q6 | 1 | Q7 | 1 | Q8 | 3 | Q9 | 1 | Q10 | 4 |
| Q11 | 3 | Q12 | 3 | Q13 | 2 | Q14 | 3 | Q15 | 2 |
| Q16 | 1 | | | | | | | | |

**BOOKLET B**

| | |
|---|---|
| Q17 | 13026 |
| Q18 | 10500 |
| Q19 | 3 |
| Q20 | $\frac{12}{16}$ *and* $\frac{3}{4}$ |
| Q21 | $1\frac{1}{2}$ |
| Q22 | 0.005 |
| Q23 | 24 |
| Q24 | W and Z |
| Q25 | Stadium |
| Q26 | FA |
| Q27 | Friday |
| Q28 | $1 - \frac{5}{12} \frac{1}{3} = 1 - \frac{5}{12} - \frac{4}{12} = \frac{3}{12} = \frac{1}{4}$ |
| Q29 | 3 ÷ 7 = 0.43 |
| Q30 | A |
| Q31 |  |



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| | |
|---|---|
| Q32 | 12x9=108 $cm^2$ |
| Q33 | 21 20 |
| Q34 | 87-19=68 |
| Q35 |  |
| Q36 | 3u + 3u + 1u + 1u = 8u<br>8u → 48 cm<br>1u → 48 ÷ 8 = 6<br>5u → 6 x 5 = 30 (Ans : 30 cm) |
| Q37 | (a) $132-$127=$105<br>(b) $132+(4x$105)=$552 |
| Q38 | (a) (i) 5 (ii) 12<br>(b) 8+2=10<br>(c) (15+2) +15 = 32 |
| Q39 | (a) $1 - \frac{3}{8} = \frac{5}{8}$<br>*(b) 2u → 36*<br>*8u → 36x4=144* |
| Q40 | (a) (6-1) x 9 =45<br>(b) 130.5 ÷ 9 = 14.5<br>14+1=15 |
| Q41 | (a) $37+$15=$52<br>(b) 2u → $52 ÷ 2 = $26<br>3u → $26 x 3 = $78<br>$78 - $15 = $63 (Ans) |
| Q42 | (a) $1+$2=$3<br>$38.70 - $3 = $35.70<br>$35.70 ÷ 3 = $11.90<br>$11.90 +$2=$13.90<br>(b) ($13.90+$1)+$1=$15.90 |
| Q43 | (a) 72 - 40 = 32<br>32 ÷ 4 = 8 (Ans : 8 cm)<br>(b) 8 cm x 8cm = 64 $cm^2$ |



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