Rosyth School
End-of-Year Examination 2023
Mathematics
Primary 4

Name : _____ ( ) Total 100

Class : Pr 4 - Duration: 1 h 45 min

Date : 24 October 2023 Parent's Signature: _____

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. This paper consists of 3 parts: Sections A, B and C.
5. For questions 1 to 15 in Section A, shade your answers in the Optical Answer Sheet (OAS).

	Maximum Marks	Marks Obtained
Section A	30	
Section B	42	
Section C	28	
Total	100	

* This paper **consists of 26 printed pages** altogether (including this cover page).

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Section A (30 marks)

Questions 1 to 15 carry 2 marks each. For questions 1 to 15, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct ovals (1, 2, 3 or 4) onto the Optical Answer Sheet provided.

All diagrams in this paper are not drawn to scale unless stated otherwise.

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1. Forty-six thousand and sixteen in figures is _____.

   (1) 46 160
   (2) 46 106
   (3) 46 016
   (4) 4616

2. In which of the following numbers does the digit 8 stands for 80?

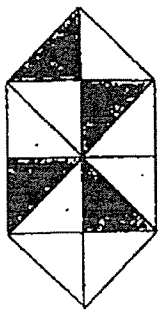
   (1) 3028
   (2) 3082
   (3) 3820
   (4) 8032

3. 13 429 rounded to the nearest hundred is _____.

   (1) 13 500
   (2) 13 430
   (3) 13 400
   (4) 13 000

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4. The figure shown is made up of identical triangles. What fraction of the figure is shaded?



(1) $\frac{4}{12}$

(2) $\frac{8}{12}$

(3) $\frac{4}{11}$

(4) $\frac{4}{8}$

5. $\frac{1}{3} + \frac{1}{9} =$ _____

(1) $\frac{1}{27}$

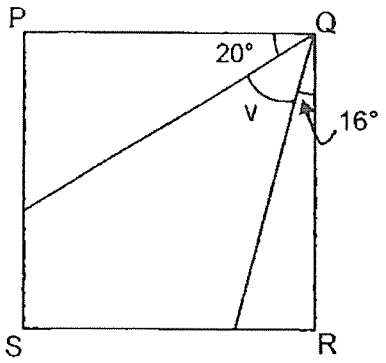
(2) $\frac{2}{12}$

(3) $\frac{3}{9}$

(4) $\frac{4}{9}$

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6. In the figure shown, PQRS is a square. Find $\angle$ v.



(1) 36°
(2) 54°
(3) 70°
(4) 74°

7. What is the number when 17.54 is rounded to 1 decimal place?

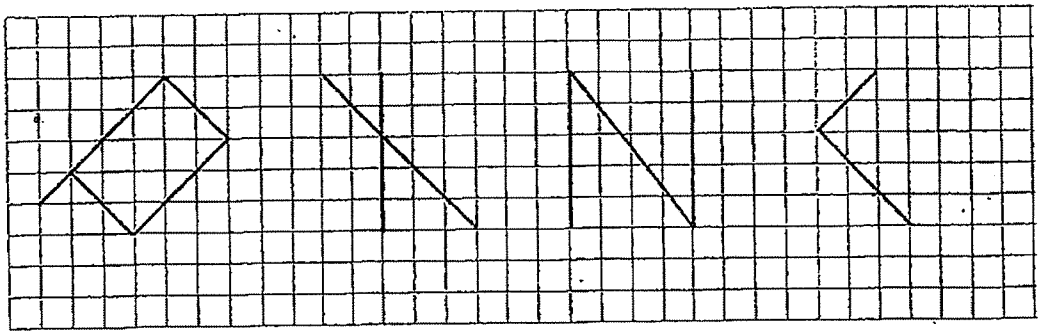
(1) 17.0
(2) 17.5
(3) 17.6
(4) 18.0

8. Abby started cleaning her room at 13 30. She took 1 h 30 min to clean her room. What time did she finish cleaning her room?

(1) 12 00
(2) 12 30
(3) 14 30
(4) 15 00

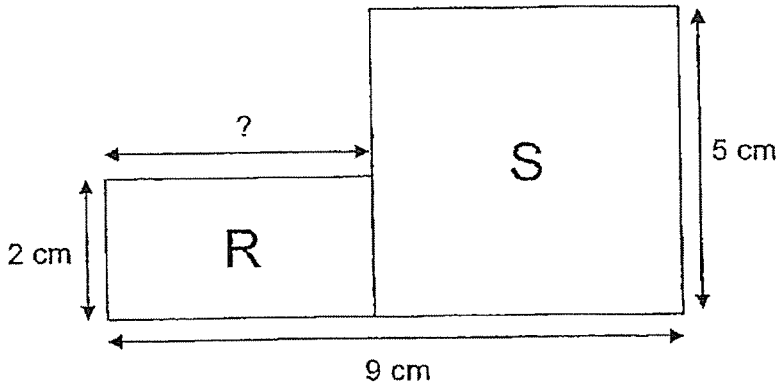
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9. Which of the following figures in the square grid below has both parallel lines and perpendicular lines?



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

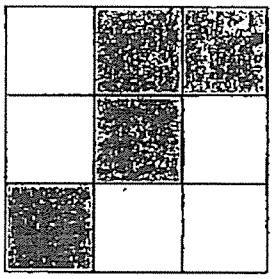
10. The figure shown is made up of a square S of side 5 cm and a rectangle R with breadth 2 cm. What is the length of rectangle R?

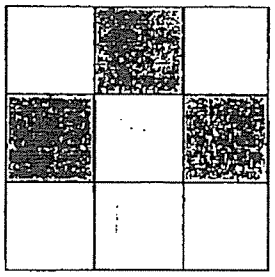


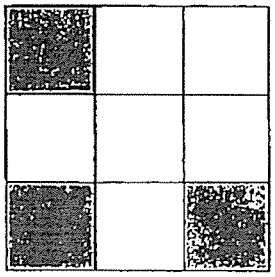
(1) 7 cm
(2) 9 cm
(3) 3 cm
(4) 4 cm

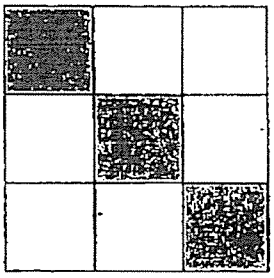
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11. Which of the following does **not** have a line of symmetry?

(1) 

(2) 

(3) 

(4) 

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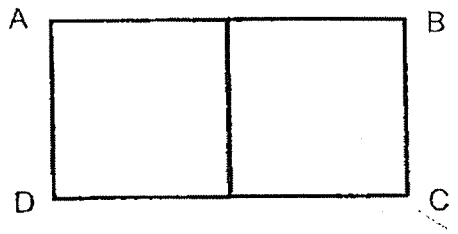
12. The following table shows the number of students who visited the Makerspace from Monday to Friday.

Day	Mon	Tue	Wed	Thu	Fri
Number of students	13	23	26	19	28

What is the total number of students who visited the Makerspace from Monday to Wednesday?

(1) 39
(2) 62
(3) 81
(4) 109

13. The following rectangle ABCD is made up of 2 squares. The perimeter of a square is 80 cm. Find the perimeter of rectangle ABCD.



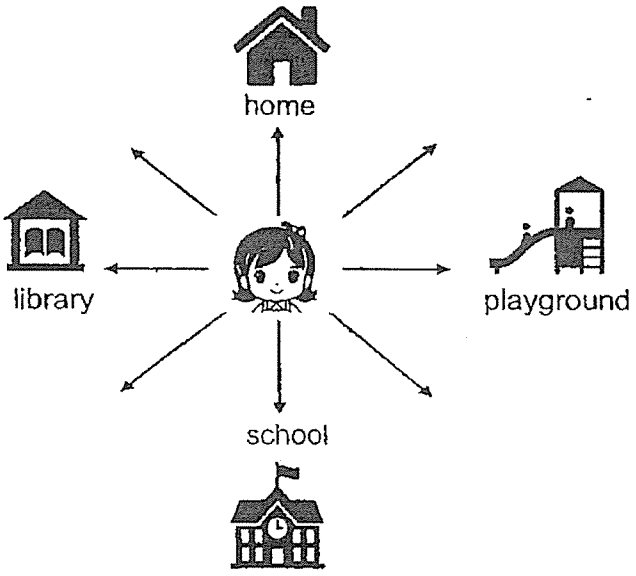
(1) 20 cm
(2) 40 cm
(3) 120 cm
(4) 160 cm

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14. Jason spent \$55 on 2 identical shirts and a pair of pants. A pair of pants cost \$25 more than a shirt. How much did he spend on 1 shirt?

(1) \$10
(2) \$15
(3) \$30
(4) \$80

15. Alicia is facing her school. She makes a $\frac{1}{2}$ turn anticlockwise. She then makes a 270° turn clockwise. Where is she facing now?



(1) home
(2) library
(3) playground
(4) school

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Section B (42 marks)

Questions **16** to **36** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

All diagrams in this paper are not drawn to scale unless stated otherwise.

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16. 83 905 = 80 000 + 3000 + ____?____ + 5

What is the missing number?

Ans: _____

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

13 000 , 12 600 , 12 200 , 11 800 , _____ , 11 000

Ans: _____

18. Express $\frac{10}{15}$ in its simplest form.

Ans: _____

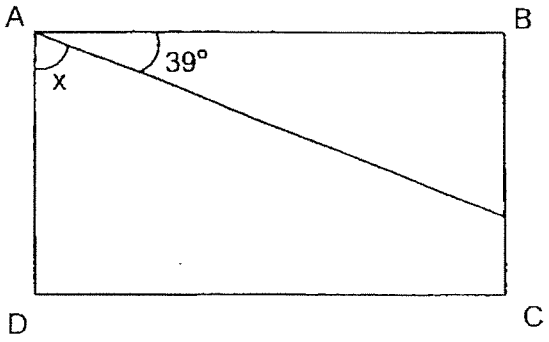
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19. Write $\frac{15}{7}$ as a mixed number.

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Ans: _____

20. In the figure, ABCD is a rectangle. Find the value of ∠x.



Ans: _____ °

21. Write 5 thousandths as a decimal.

Ans: _____

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22. Write $\frac{85}{100}$ as a decimal.

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Ans: _____

23. Arrange the following numbers in order from the greatest to the smallest.

3.909, 3.093, 3.099

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

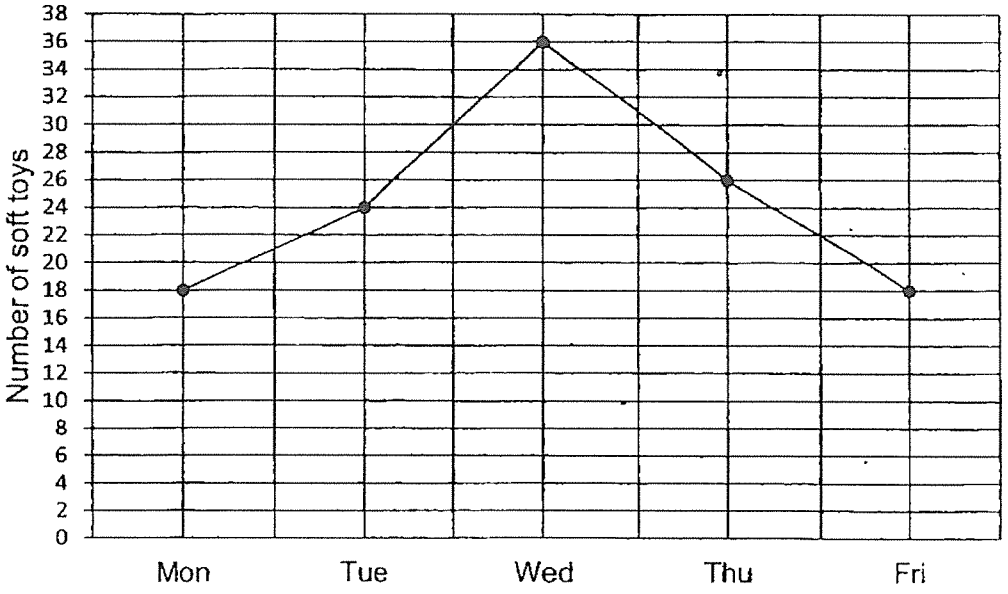
24. Express 0.4 as a fraction.

Ans: _____

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25. The following line graph shows the number of soft toys sold at the Care Carnival.

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Each soft toy was sold at $12.

(a) Which day has the greatest number of soft toys sold?

Ans: (a) _____

(b) How much money was collected from the sales on that day?

Ans: (b) $ _____

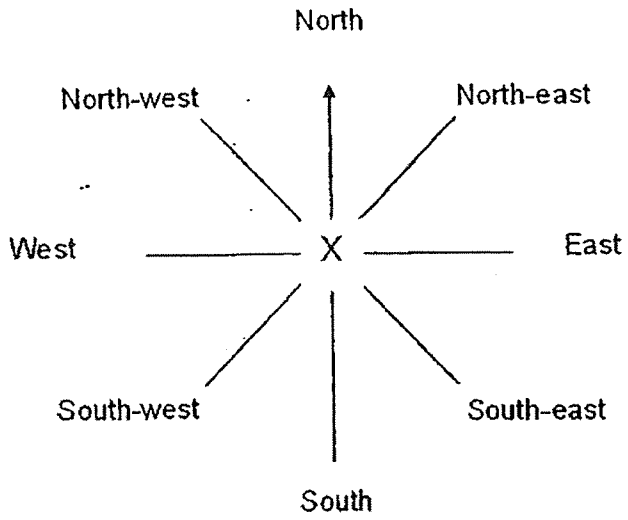
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26. Mrs Wong wants to pack 36 blueberry cupcakes and 54 chocolate cupcakes into boxes with no remainder. The total number of cupcakes packed into each box is the same. The number of blueberry cupcakes in each box is the same. What is the greatest number of boxes that Mrs Wong can pack?

Do not write in this space

Ans: _____

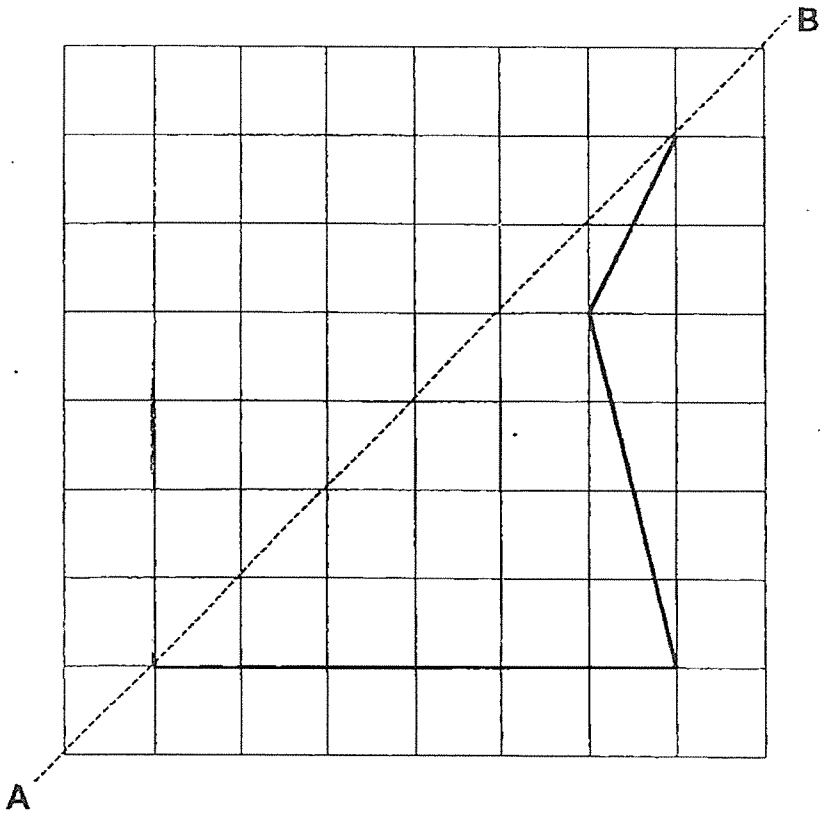
27. Emily and Guo Chuan are standing at point X facing the same direction. After Emily makes a 270° turn clockwise, she faces south-east. Where will Guo Chuan face after he makes a 135° anticlockwise turn from the original position?



Ans: _____

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28. Complete the following symmetric figure with line AB as the line of symmetry.

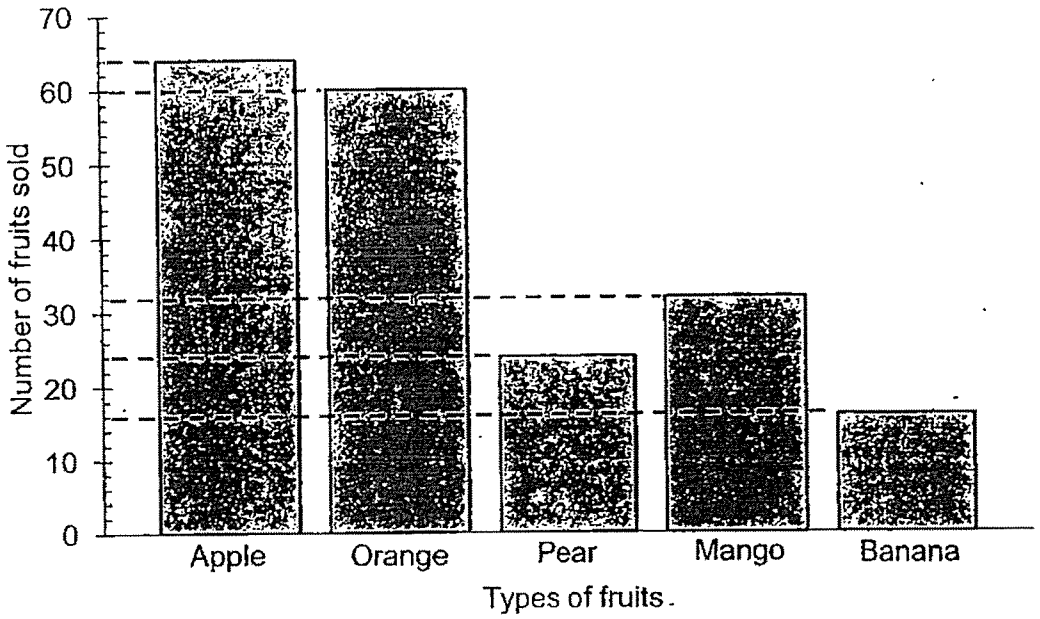


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29. The graph below shows the number of fruits sold in the first week of August.

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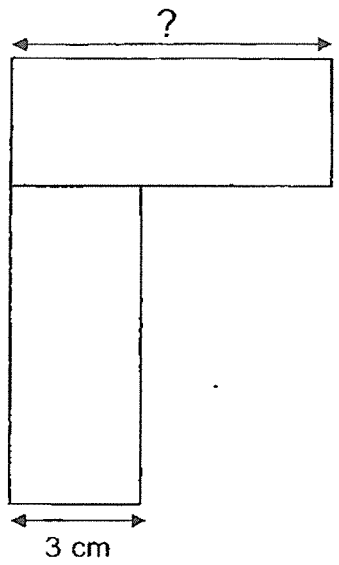
Which fruit was sold twice as many as mangoes?

Ans: _____

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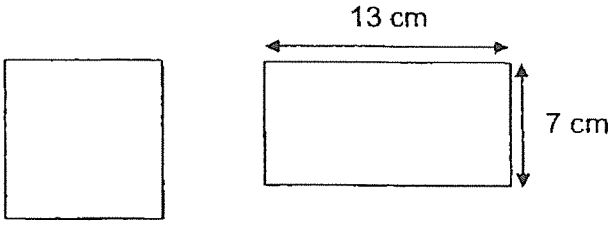
30. The figure is made up of 2 identical rectangles. The total area of the figure is 48 cm^2. Find the length of one rectangle.

Do not write in this space



Ans: _____ cm

31. The following square and rectangle have the same perimeter. Find the area of the square.

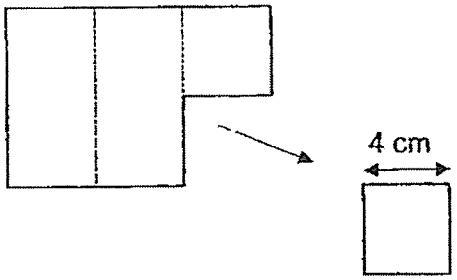


Ans: _____ cm^2

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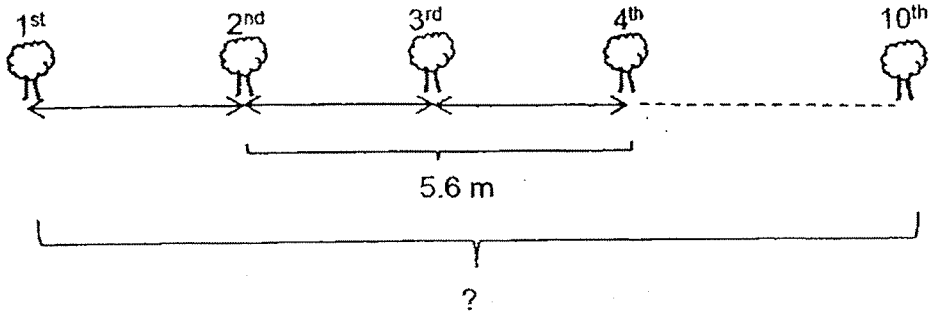
32. A square of side 4 cm has been cut out from a rectangular piece of paper as shown below. Exactly 6 such squares can be cut out from the paper without any leftover. Find the perimeter of the piece of paper now.

Do not write in this space



Ans: _____ cm

33. 10 trees were planted along a road at equal distance. The distance between the 2nd and the 4th tree was 5.6 m. What was the distance between the 1st and the 10th tree?



Ans: _____ m

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34. Aini prepared 6 ℓ of fruit punch for a party. She poured them equally into 4 bottles. What is the volume of the fruit punch in each bottle?

Do not write in this space

Ans: _____ ℓ

35. Kelvin is 1.81 m tall. He is 0.35 m taller than Jonathan. Jonathan is 0.29 m shorter than Elson. What is Elson's height?

Ans: _____ m

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36. Leela's watch is 15 minutes slower. The time shown on her watch is 1.35 p.m. Find the actual time using the 24-hour clock.

Do not write in this space

Ans: _____

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Section C (28 marks)

Questions **37** to **40** carry 3 marks each. Questions **41** to **44** carry 4 marks each. 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.

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37. When I open my storybook, two pages face me. The sum of these two page numbers is 667. What is the page number of the smaller number?

Ans. _____ [3]

38. Mark bought some sweets. He gave his friends $\frac{1}{7}$ of the sweets and gave his brother $\frac{3}{4}$ of the sweets. All the remaining sweets were eaten by him.

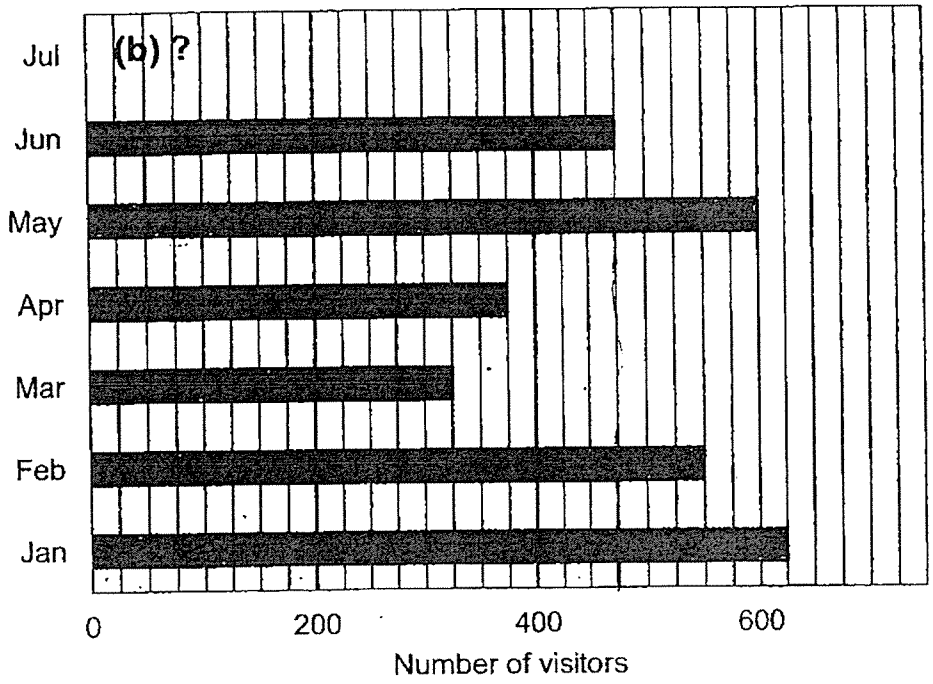
What fraction of the sweets did Mark eat?

Ans: _____ [3]

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39. The following graph shows the number of visitors who went to the museum over seven months.

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(a) Between January to June, which month has the least number of visitors?

Ans: (a) _____ [1]

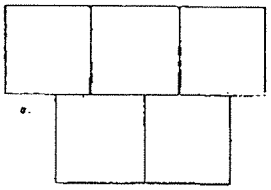
(b) The total number of visitors who went to the museum in May, June and July is 1500. How many visitors went to the museum in July?

Ans: (b) _____ [2]

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40. The figure below is made up of 5 identical squares.

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The area of a square is 25 cm^2. What is the perimeter of the figure above?

Ans: _____ [3]

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41. Nicole had baked five times as many cookies as Joey at first. After Nicole gave away 235 cookies and Joey gave away 19 cookies, they had the same number of cookies left.

Do not write in this space

(a) How many cookies did Nicole bake at first?

Ans: (a) _____ [2]

(b) How many cookies did each of them have in the end?

Ans: (b) _____ [2]

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42. Mrs Devi and Mdm Tan baked an equal number of muffins for sale. Mrs Devi sold 49 muffins and had $\frac{2}{9}$ of the muffins left.

Do not write in this space

(a) How many muffins did Mrs Devi have left?

Ans: (a) _____ [2]

(b) How many muffins did Mrs Devi and Mdm Tan bake in all?

Ans: (b) _____ [2]

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43. Charlie had twice as marbles as Sally. After Sally lost 45 marbles, Charlie had 5 times as many marbles as Sally. How many marbles did Charlie have?

Do not write in this space

Ans: _____ [4]

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44. Three children shared some money. Alice and Benny received $100 altogether. Benny and Catherine received $450 in all. Catherine received five times as much money as Alice. How much money did Alice receive?

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Ans: _____ [4]

End of Paper

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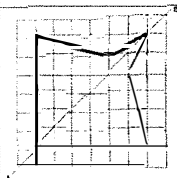
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SCHOOL : ROSYTH SCHOOL
LEVEL : PRIMARY 4
SUBJECT : MATHEMATICS
TERM : 2023 SA2

BOOKLET A

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

BOOKLET B

Q16	900
Q17	11400
Q18	$\frac{2}{3}$
Q19	$2\frac{1}{7}$
Q20	51°
Q21	0.005
Q22	0.85
Q23	3.909, 3.099, 3.093
Q24	$\frac{4}{10}$
Q25a	Wed
Q25b	**$432**
Q26	Common factors of 36 and 54: 1, 2, 3, 6, 9, **18** Greatest number of boxes → take biggest common factor: **18**
Q27	East
Q28	
Q29	Apple
Q30	48 ÷ 2 = 24 cm^2 24 ÷ 3 = **8 cm**

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Q31	13 + 13 + 7 + 7 = 40cm Length of one side of square = 40 ÷ 4 = 10cm Area of square = 10 x 10 = 100cm^2
Q32	Length of paper = 3 x 4 = 12cm Breadth of paper = 2 x 4 = 8cm Perimeter = 12 + 12 + 8 + 8 = 40cm
Q33	5.6 ÷ 2 = 2.8 2.8 x 9 = 25.2m
Q34	6L ÷ 4 = 1.5L
Q35	1.81 – 0.35 = 1.46 1.46 + 0.29 = 1.75m
Q36	15 min after 1.25pm -> 1.50pm -> 13 50
Q37	Extra page = 667 – 1 = 666 666 ÷ 2 = 333
Q38	$\frac{1}{7} + \frac{3}{4} = \frac{4}{28} + \frac{21}{28} = \frac{25}{28}$ Mark ate = $\frac{28}{28} - \frac{25}{28} = \frac{3}{28}$
Q39a	Mar
Q39b	May + Jun = 600 + 475 = 1075 1500 – 1075 = 425
Q40	Length of one side of square = 5cm Perimeter = 10 x 5 = 50cm
Q41a	4u = 216 1u = 54 5u = 5 x 54 = 270
Q41b	54 – 19 = 35
Q42a	7u = 49 1u = 7 7 + 7 = 14
Q42b	9u = 9 x 7 = 63 63 x 2 = 126
Q43	3u = 45 + 45 = 90 1u = 30 5u = 5 x 30 = 150
Q44	450 – 100 = 350 4u = 350 1u = 350 ÷ 4 = $87.50

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