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CATHOLIC HIGH SCHOOL

END-OF-YEAR EXAMINATION (2023)

PRIMARY FOUR

MATHEMATICS

Name : _____ ( )

Class : Primary 4 _____

Date : 24 October 2023

Total time : 1 h 45 min

45 questions

100 marks

Parent's signature : _____

SECTION A	40
SECTION B	40
SECTION C	20
Total Marks	100

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.

This booklet consists of 23 printed pages and 1 blank page.

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Section A

Questions 1 to 20 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 oval (1, 2, 3 or 4) on the Optical Answer Sheet. All diagrams are not drawn to scale. (40 marks)

1. In which of the following numbers does the digit 7 stand for 700?

   (1) 4507
   (2) 5470
   (3) 5740
   (4) 7540 ( )

2. 27 358 rounded to the nearest hundred is _____.

   (1) 27 000
   (2) 27 300
   (3) 27 360
   (4) 27 400 ( )

3. In the number 68.59, the digit _____ is in the tenths place.

   (1) 6
   (2) 8
   (3) 5
   (4) 9 ( )

4. Which of the following is **not** a factor of 56?

   (1) 6
   (2) 2
   (3) 8
   (4) 4 ( )

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5. $5\frac{2}{9} = \frac{\square}{9}$

What is the missing number in the box?

(1) 10

(2) 43

(3) 45

(4) 47 ( )

---

6. Find the value of $\frac{5}{12} - \frac{1}{4}$

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

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

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

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

---

7. Express $\frac{3}{4}$ as a decimal.

(1) 0.34

(2) 0.43

(3) 0.75

(4) 0.075 ( )

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8. Which of the following is a multiple of both 3 and 7?

(1) 10

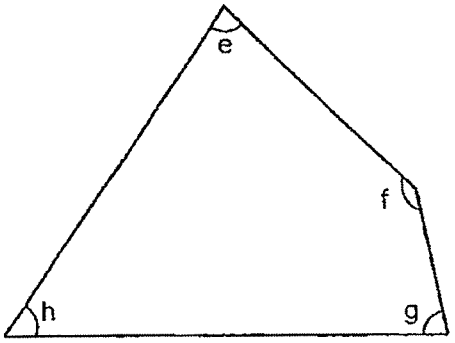
(2) 27

(3) 35

(4) 42 ( )

---

9. In the figure below, which angle is greater than a right angle?



(1) ∠e

(2) ∠f

(3) ∠g

(4) ∠h ( )

---

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

0.204 , 0.402 , 0.24 , 0.42

(1) 0.204 , 0.24 , 0.402 , 0.42

(2) 0.204 , 0.42 , 0.24 , 0.402

(3) 0.42 , 0.402 , 0.24 , 0.204

(4) 0.402 , 0.42 , 0.204 , 0.24 ( )

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11. Julia bought a book for $18.90 and a pencil box for $7.50. She gave the cashier $50. How much change did she get?

(1) $11.40

(2) $23.60

(3) $26.40

(4) $31.10 ( )

---

12. The table below shows the duration of different activities held at a children's workshop.

Activity	Duration
Art Jamming	2 h 45 min
Build-A-Bear	1 h 45 min
Creative Music	1 h 15 min
Dino Dash	2 h 15 min

Rachel started an activity at 09 35 and ended at 11 50. Which activity did she participate in at the workshop?

(1) Art Jamming

(2) Build-A-Bear

(3) Creative Music

(4) Dino Dash ( )

---

13. Henry has some stamps. John has 3 times as many stamps as Henry. They have 2700 stamps altogether. How many stamps does Henry have?

(1) 675

(2) 900

(3) 1350

(4) 2025 ( )

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14. The table below shows the number of chicken wings eaten by a group of children at a party.

Number of chicken wings eaten by each child	0	1	2	3
Number of children	5	3	8	12

What was the total number of chicken wings eaten by the children at the party?

(1) 23

(2) 28

(3) 55

(4) 60 ( )

---

15. Thomas went for a movie which ended at 18 00. The movie lasted 2 h 15 min. What time did the movie start?

(1) 15 45

(2) 16 15

(3) 20 15

(4) 20 45 ( )

---

16. The length of a bus is 12.1 m when rounded to 1 decimal place. Which of the following is the greatest possible length of the bus?

(1) 12.05 m

(2) 12.09 m

(3) 12.14 m

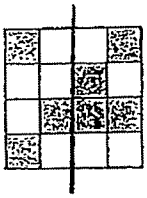
(4) 12.19 m ( )

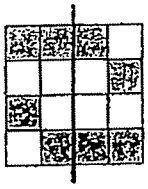
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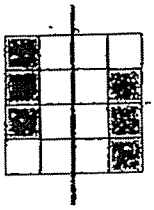
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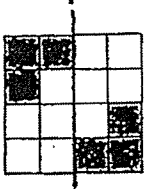
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17. The following figures are made up of identical squares. Which of the following figures is symmetrical?

(1) 

(2) 

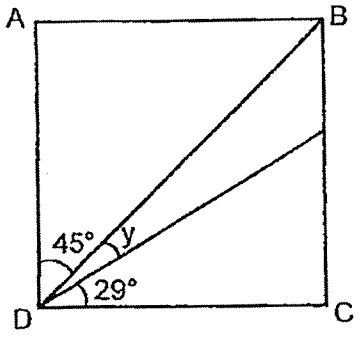
(3) 

(4) 

( )

---

18. In the figure shown, ABCD is a square. Find $\angle y$.



(1) 16°

(2) 45°

(3) 61°

(4) 74°

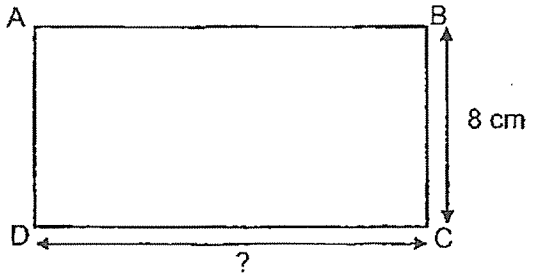
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19. The perimeter of rectangle ABCD is 50 cm. Its breadth is 8 cm. What is the length of rectangle ABCD?



(1) 16 cm

(2) 17 cm

(3) 21 cm

(4) 34 cm ( )

---

20. Aaron and Brandon had a total of $567 at first. After Aaron gave Brandon $33, Aaron had twice as much money as Brandon. How much money did Brandon have at first?

(1) $156

(2) $189

(3) $222

(4) $255 ( )

END OF SECTION A

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Section B

Questions 21 to 40 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. All diagrams are not drawn to scale. (40 marks)

Do not write in this space

21. Write six thousand and twenty in figures.

Ans: _____

22. What is the missing number in the number pattern below?

85 211, 85 251, 85 291, ____?____, 85 371

Ans: _____

23. When a number is divided by 6, it has a quotient of 1006 and remainder of 3. What is the number?

Ans: _____

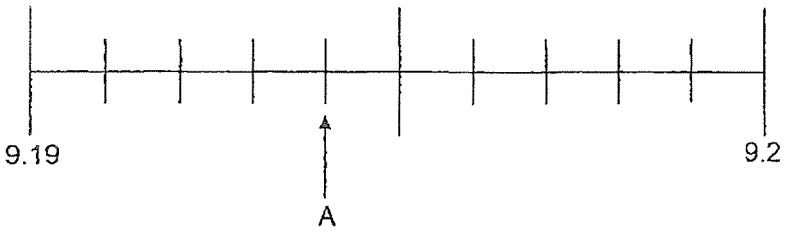
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24. In the number line, what is the decimal represented by A?

Do not write in this space



Ans: _____

25. Use all the digits 3, 4, 6, 9 to form the largest even number. Each digit can only be used once.

Ans: _____

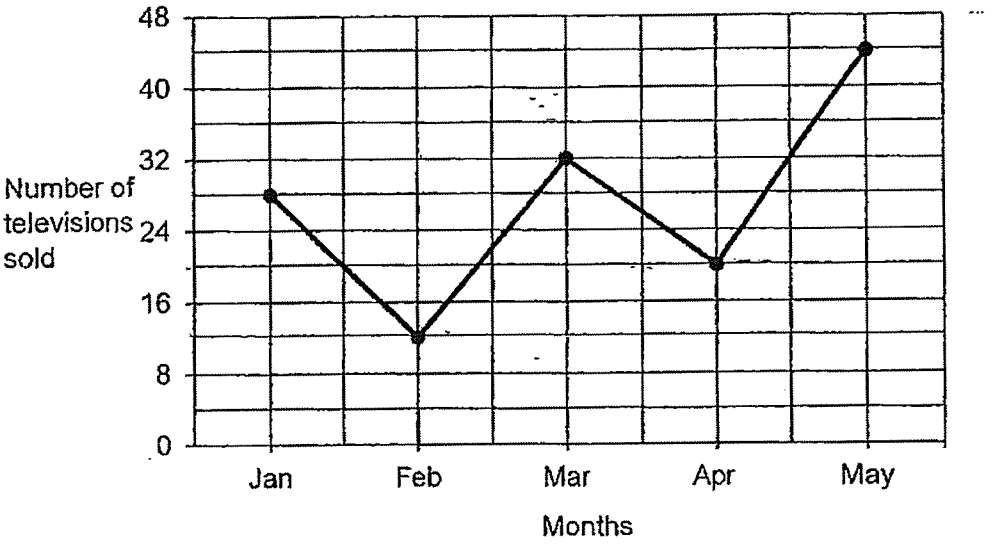
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The line graph shows the number of televisions sold at a shop for the months of January to May. Study the graph carefully and use it to answer questions 26 and 27.

Do not write in this space



26. What was the difference between the highest and lowest sale of televisions recorded on the graph?

Ans: _____

27. During which 1-month interval was the increase in the sale of televisions recorded the greatest?

Ans: From _____ to _____

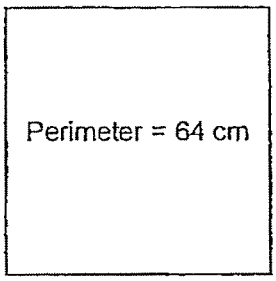
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28. The perimeter of the square is 64 cm. Find the area of the square.

Do not write in this space



Ans: _____ cm^2

29. Mr. Ben bought some flour. He used 250 g of it and packed the remaining flour equally into 6 packets. The mass of 1 such packet of flour was 175 g. How much flour did Mr. Ben buy?

Ans: _____ g

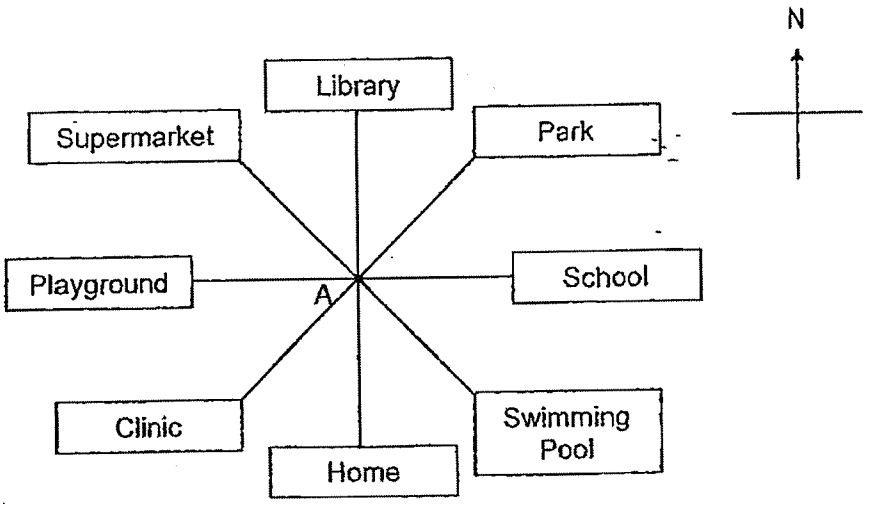
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30. Study the following diagram. Penny is standing at point A, facing the park. She turns through an angle of 135° in an anti-clockwise direction. What will she be facing?

Do not write in this space



Ans: _____

31. Eunice bought $\frac{3}{5}$ m of ribbon to tie a present. Sarah bought $\frac{1}{2}$ m more ribbon than Eunice to make bows. How much ribbon did they buy altogether?

Ans: _____ m

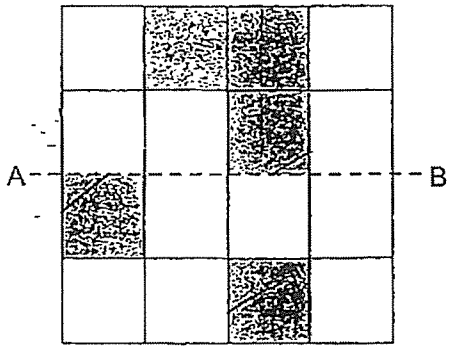
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32. The figure below is made up of 16 identical squares. Line AB is the line of symmetry. Shade three more squares to make the figure symmetrical.

Do not write in this space



33. $\frac{3}{4}$ of a number is 21. What is the number?

Ans: _____

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34. Henry paid $4 for 8 identical erasers. What was the cost of 1 such eraser?

Do not write in this space

Ans: $_____

35. A big box contains twice as many tarts as a small box. There are a total of 136 tarts in 3 big boxes and 2 small boxes. How many tarts are there in a big box?

Ans: _____

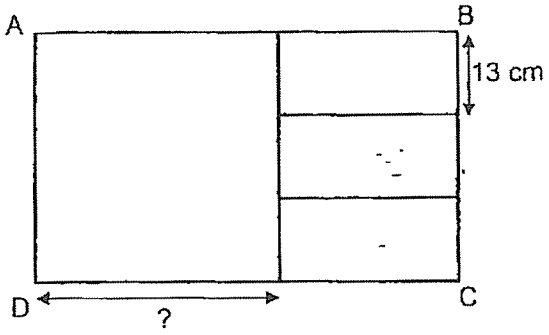
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36. Rectangle ABCD is made up of a square and 3 smaller identical rectangles. The breadth of 1 smaller rectangle is 13 cm. Find the length of the square.

Do not write in this space



Ans: _____ cm

37. There are 135 pies at a party. $\frac{2}{9}$ of the pies are chicken pies and the rest are mushroom pies. How many more mushroom pies than chicken pies are there at the party?

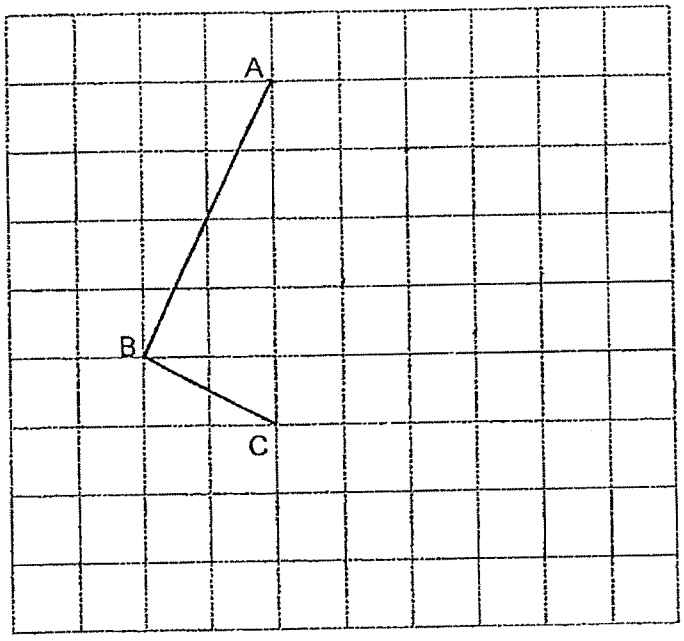
Ans: _____

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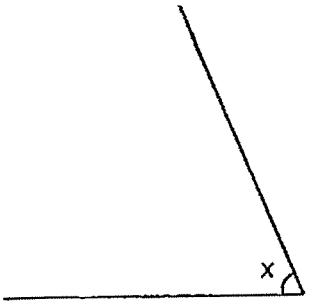
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38. In the square grid below, line AB and line BC form half a rectangle. Draw the missing lines to complete the rectangle.

Do not write in this space



39. Measure and write down the size of ∠x.



Ans: _____ °

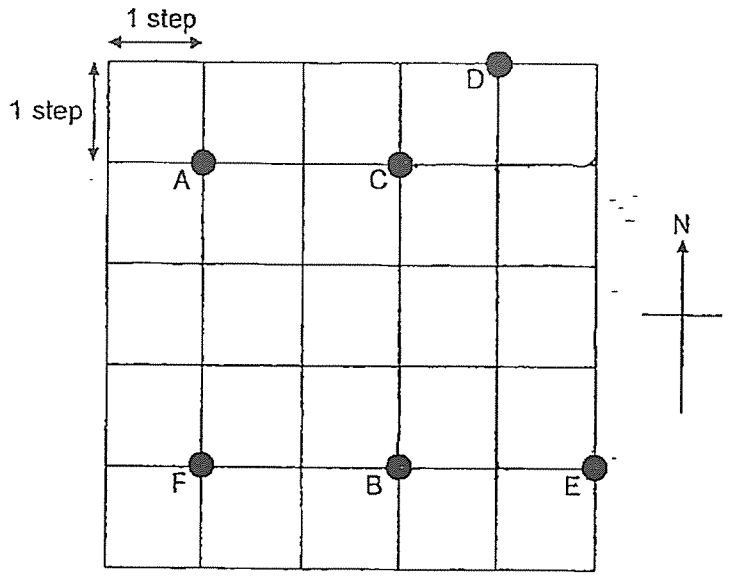
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40. Look at the square grid below.

Do not write in this space



Alice was at one of the points shown in the grid at first. She walked 2 steps to the east, 3 steps to the south and 2 steps to the West. She was at point B in the end. Which point was she at at first?

Ans: _____

Total marks for question 21 to 40

40

END OF SECTION B

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Section C

For Questions 41 to 45, 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. All diagrams are not drawn to scale.

(20 marks)

Do not write in this space

41. Dora, Erica and Felicia had $4300 altogether. Dora had $980 more than Erica. Felicia had $340 less than Erica. How much money did Felicia have?

Ans: _____ [4]

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42. Julian read $\frac{2}{9}$ of a book on Monday and $\frac{2}{3}$ of the book on Tuesday. He read the remaining pages of the book on Wednesday. He read 76 more pages on Tuesday than on Monday.

Do not write in this space

(a) What fraction of the book did he read on Wednesday?

Ans: (a)_____ [1]

(b) How many pages did the book have?

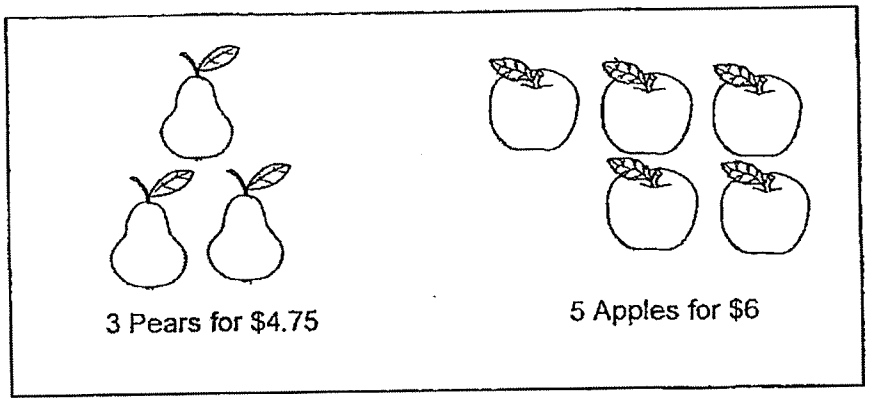
Ans: (b)_____ [3]

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43. There were some pears and apples for sale at a fruit stall. Pears are sold only in packs of 3 while apples are sold only in packs of 5.

Do not write in this space



(a) Mandy bought 12 pears. How much did she pay for the pears?

Ans: (a)_____ [2]

(b) Caleb had $50. What was the greatest number of apples he could buy?

Ans: (b) _____ [2]

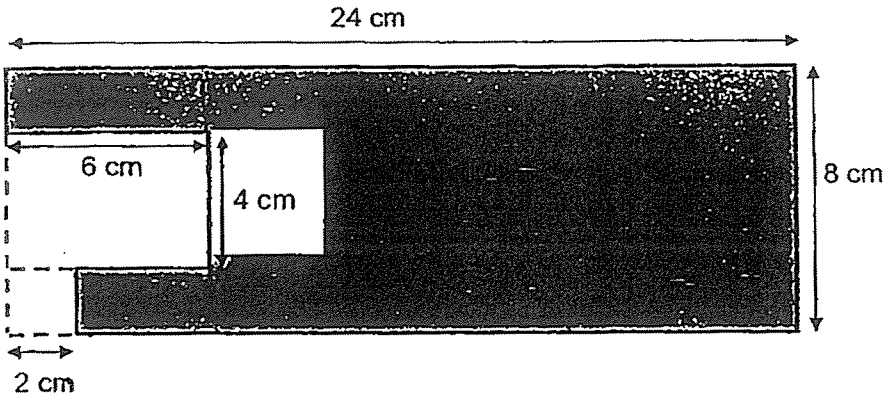
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44. Michael has a piece of rectangular paper measuring 24 cm by 8 cm. He cuts out a square of length 2 cm and rectangle measuring 6 cm by 4 cm as shown below.

Do not write in this space



(a) What is the area of the remaining paper?

Ans: (a)_____ [2]

(b) What is the perimeter of the remaining paper?

Ans: (b)_____ [2]

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45. Dots and triangles are used to form figures that follow a pattern. The first three figures are shown below.

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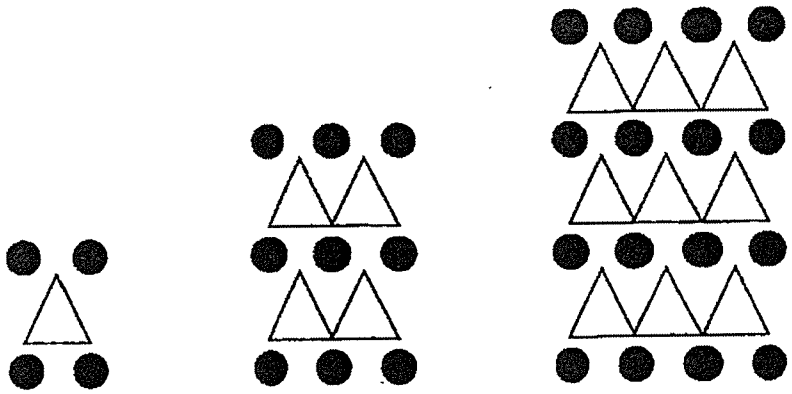


Figure 1 Figure 2 Figure 3

The table shows the number of dots and triangles used for each figure.

Figure Number	Number of dots	Number of triangles
1	4	1
2	9	4
3	16	9
4		

[2]

(a) Fill in the table for Figure 4.

(b) Which Figure Number has a total of 100 dots?

Ans: (b) _____ [2]

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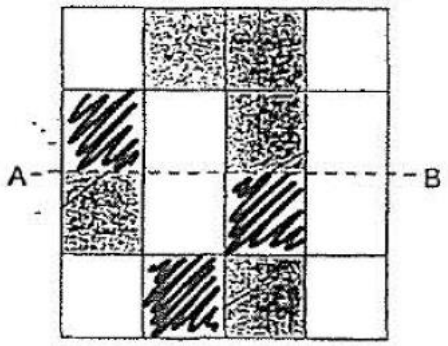
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LEVEL : PRIMARY 4
SUBJECT : MATHEMATICS
TERM : 2023 SA2 END OF YEAR EXAM

Booklet A

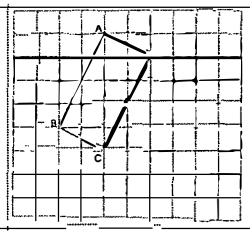
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	4	3	1	4	1	3	4	2	1
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
2	4	1	3	1	3	4	1	2	1

Booklet B

Q21	6020
Q22	85331
Q23	6039
Q24	9.194
Q25	9634
Q26	32
Q27	April to May
Q28	256 cm^2
Q29	1300g
Q30	Playground
Q31	$\frac{3}{5} + \frac{1}{2} = \frac{6}{10} + \frac{5}{10} = 1\frac{1}{10}$ $\frac{6}{10} + 1\frac{1}{10} = 1\frac{7}{10}$ m
Q32	
Q33	21 ÷ 3 = 7 7 x 4 = 28
Q34	$4.00 ÷ 8 = $0.50

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Q35	136 ÷ 8 = 17 17 x 2 = **34**
Q36	39 ÷ 3 = 13 13 x 3 = **39**
Q37	135 ÷ 9 = 15 15 x 2 = 30 15 x 7 = 105 105 - 30 = **75**
Q38	
Q39	69°
Q40	C
Q41	3u = $4300 - $980 - $340 - $340 = $2640 1u = **$880**
Q42a	$\frac{2}{3} + \frac{2}{9} = \frac{6}{9} + \frac{2}{9} = \frac{8}{9}$ $\frac{9}{9} - \frac{8}{9} = \mathbf{\frac{1}{9}}$
Q42b	1u = 76 ÷ 4 = 19 9u = 19 x 9 = **171**
Q43a	19 ÷ 4 = 4.75 4.75 x 4 = **$19**
Q43b	40
Q44a	24 x 8 = 192 cm^2 192 - (6 x 4) - (4 x 4) - (2 x 2) = **148 cm^2**
Q44b	24 + 8 + 22 + 2 + 4 + 4 + 6 + 2 = **72 cm**
Q45a	25, 16
Q45b	Fig. 9

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