CATHOLIC HIGH SCHOOL

SEMESTRAL ASSESSMENT ONE (2018)

PRIMARY FOUR

MATHEMATICS

Name : _____ (   )

Class: Primary 4 _____

Date: 9 May 2018

Duration: 1 h 45 min

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.

For section A, shade your answers in the Optical Answer Sheet (OAS) provided.

This booklet consists of 22 printed pages excluding the cover page.

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.   What is the value of the digit 8 in 68 302?

    (1)   80

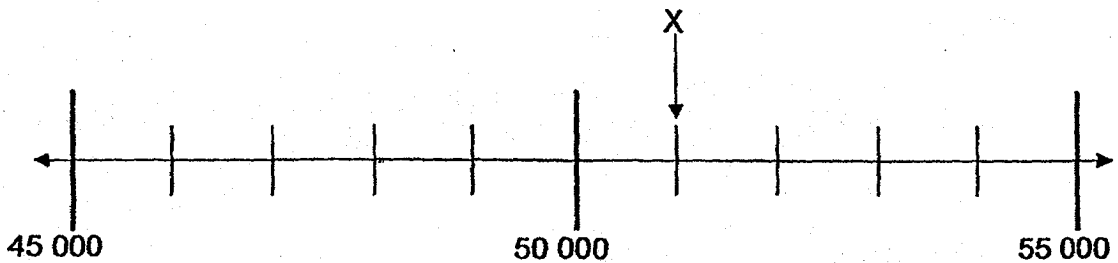   (2)   800

    (3)   8000

    (4)   80 000   (   )

2.   Which of the following numbers when rounded to the nearest hundred becomes 24 100?

    (1)   24 149

    (2)   24 150

    (3)   24 195

    (4)   25 099   (   )

3.   Look at the number line below. The number line is marked at equal intervals. What is the value of X?

    (1)   45 600

    (2)   46 000

    (3)   50 100

    (4)   51 000   (   )

4. What is the product of 408 and 6?

    (1) 68
    (2) 2448
    (3) 2508
    (4) 2648   (   )

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5. What is the remainder when 3223 is divided by 9?

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

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6. A fruit seller had 16 cartons of oranges. He had 30 oranges in each carton.
    He repacked the oranges into boxes of 8. How many boxes would he have?

    (1) 15
    (2) 46
    (3) 60
    (4) 80   (   )

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7. Mr Chua had 43 boxes of 10 muffins. He added 4 more muffins into each
    box. How many muffins will he have in the end?

    (1) 410
    (2) 433
    (3) 592
    (4) 602   (   )

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8. $\frac{1}{2}$ of a complete turn is _____ °

    (1)   45°

    (2)   90°

    (3)   180°

    (4)   270°   (   )

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9. Which one of the following is a factor of both 14 and 63?

    (1)   7

    (2)   2

    (3)   8

    (4)   9   (   )

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10. At a carnival, every 6th child receives an ice-cream and every 8th child gets a popcorn. Which one of the following children will be the first to get both an ice cream and a popcorn?

    (1) 14th

    (2) 24th

    (3) 30th

    (4) 48th (   )

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11. James had some egg tarts. He packed 8 egg tarts into each box. After packing, he had 15 boxes of egg tarts and had 6 egg tarts left. How many egg tarts did he have at first?

    (1)   90

    (2)   98

    (3)   120

    (4)   126   (   )

12. In the diagram, what is another way to name ∠b?
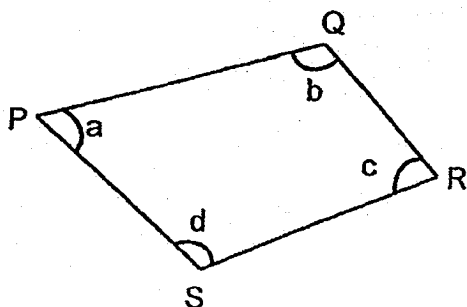
(1) ∠PQR

(2) ∠QRS

(3) ∠RSP

(4) ∠SPQ   (   )

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13. Susan and Eliza had $846 altogether. Susan had twice as much as Eliza. How much did Eliza have?

(1) $141

(2) $282

(3) $423

(4) $564   (   )

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14. A toy gun costs 3 times as much as a teddy bear. The teddy bear costs $45. How much do 2 teddy bears and 1 toy gun cost?

(1) $90

(2) $135

(3) $180

(4) $225   (   )

15. Kevin saves $5 every day to buy a computer console that costs $337. What is the least number of days that Kevin needs to save so that he could buy the computer console?

    (1)   60
    (2)   67
    (3)   68
    (4)   70   (   )

16. The sum of two numbers is 1308. The difference of the two numbers is 246. What is the value of the smaller number?

    (1)   531
    (2)   777
    (3)   1062
    (4)   1554   (   )

17. 1 television and 2 similar printers cost $2400. The cost of the television is the same as the total cost of the 2 printers. How much does each printer cost?

    (1) $600
    (2) $800
    (3) $1200
    (4) $1600   (   )

18. Look at the diagram below.
Bennet is facing the toy shop. He turns through an angle of 135° in an anti-clockwise direction. What will he be facing?
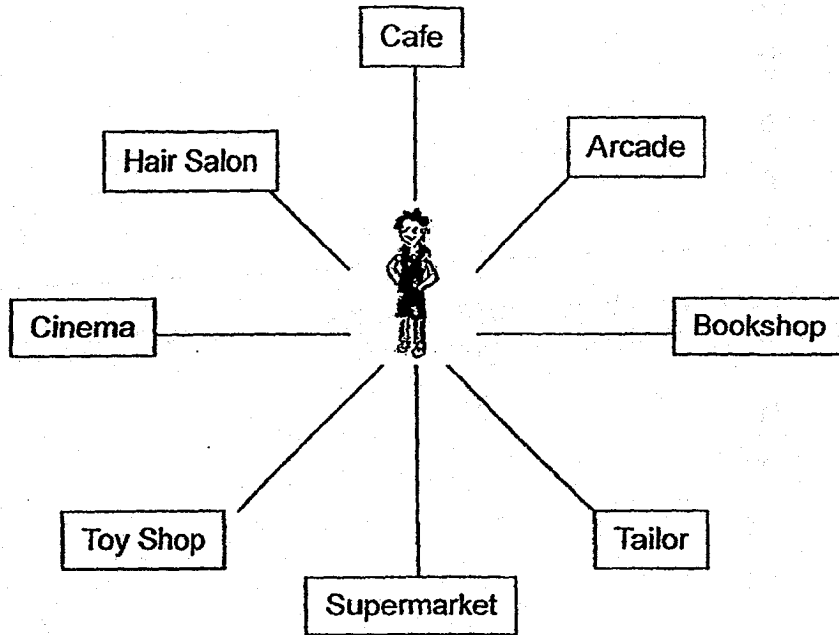
(1) Cafe

(2) Arcade

(3) Bookshop

(4) Hair Salon   ( )

19. Square X and rectangle Y are shown in the square grid below.
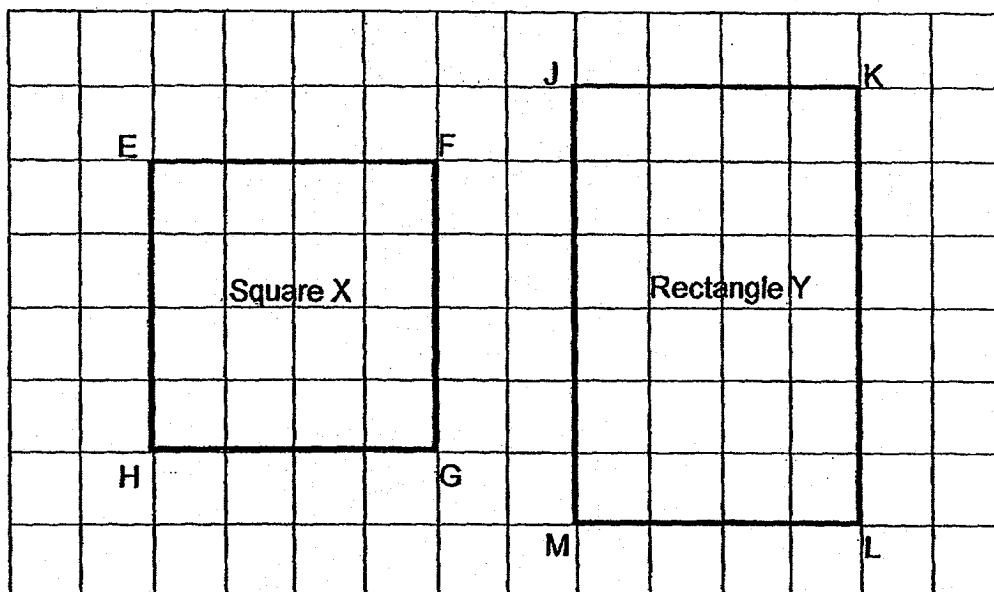
Which of the following statement(s) is/are true?

Statement A: JK and HG have the same length.

Statement B: EF is parallel to KL.

Statement C: ∠EHG is equal to ∠KJM.

(1)   A only

(2)   A and C only

(3)   B and C only

(4)   A, B and C   (   )

20. The following shapes are drawn on square grids.
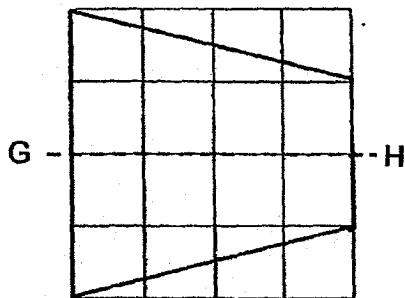Which of the dotted lines is a line of symmetry?

(1)

A - - - - - - - - - B

(2)

C - - - - - - - - - D

(3)

E - - - - - - - - - F

(4)

G - - - - - - - - - H

(   )

END OF SECTION A

(Go on to the next page)
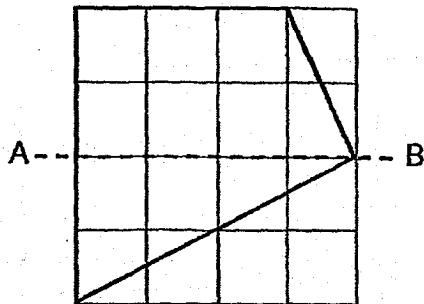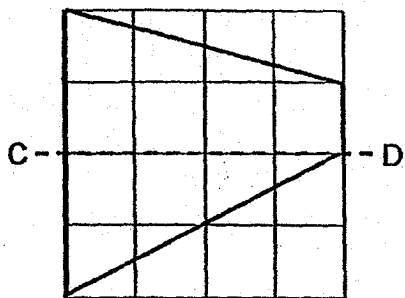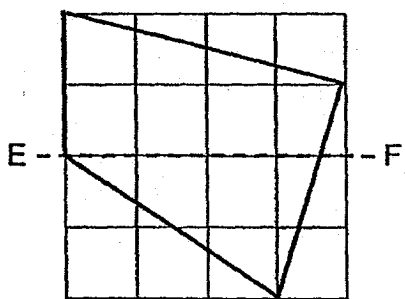
Section B

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)

21.   500 less than 90 000 is _____.

Ans: _____

22.   Arrange the numbers in decreasing order.

73 926,   73 692,   73 962

Ans: _____, _____, _____

23.   Complete the number pattern.

18 359,   19 459,   _____,   21 659,   22 759,   23 859

Ans: _____

24. 6095 people visited a museum. Round this number to the nearest thousand.

Ans: _____

25. The number of marbles Claire has is 280 when rounded to the nearest ten. What is the smallest possible number of marbles Claire can have before it was rounded to the nearest ten?

Ans: _____

26. The factors of 56 are 1, 2, 7, 8, 14 and 56. Two factors are missing from the list. What are the two missing factors of 56?

Ans: _____ and _____

10   (Go on to the next page)

27. The figure below is made up of squares. Line AB is the line of

A ——————————————— B
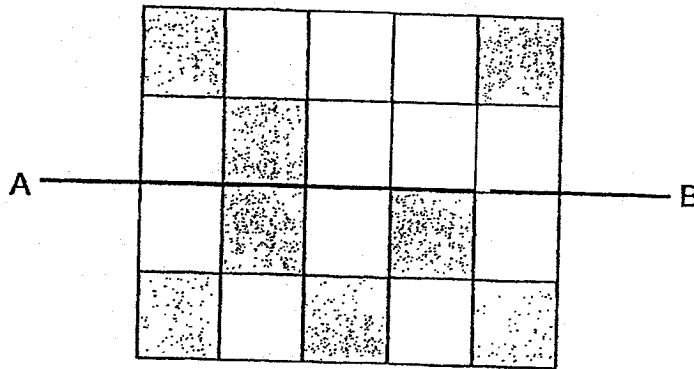
28. What is the number in the blank?

$$5\ 5\ 1\ R4$$
$$9\overline{)\boxed{?}}$$

Ans: _____

29. Use the digits 4, 0, 3, 7 to form the largest 4-digit odd number.

Ans: _____

(Go on to the next page)

30. Eric had 208 more marbles than Rachel. After Rachel gave 59 marbles to Eric, Eric now has 2 times as many marbles as Rachel. How many marbles did Rachel have at first?
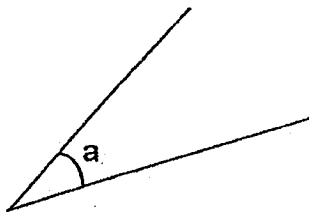
Ans: _____

31. Francis and George had a total of $670. After Francis gave George $150, they had an equal amount of money. How much money did George have at first?
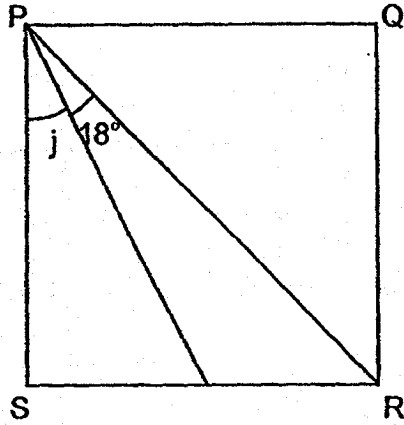
Ans:$ _____

32. Use a protractor to measure ∠a.

Ans: _____ °
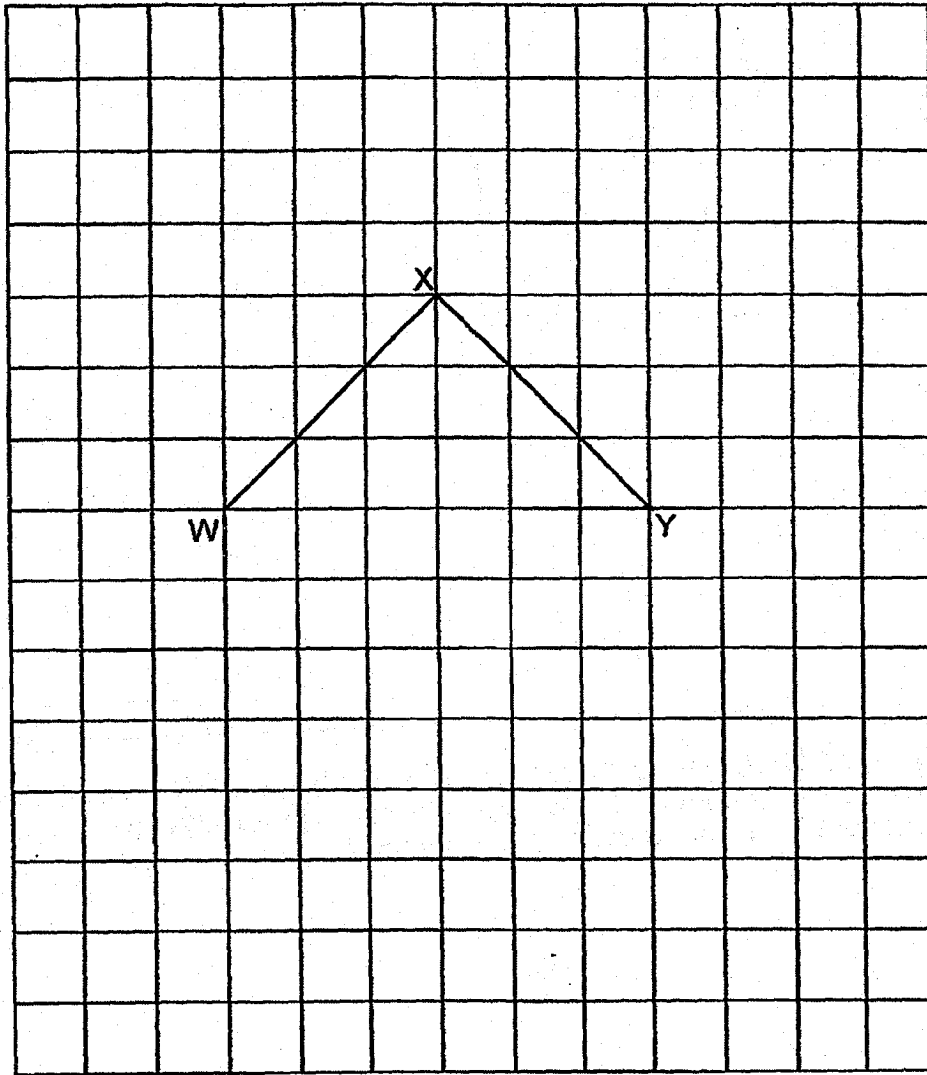
12

33. PQRS is a square. Find $\angle j$.

Ans: _____ °

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34. In a school hall, there are 4 rows of seats. Each row has 3 more seats than the row in front of it. There are 20 seats in the second row. How many seats are there in the school hall?
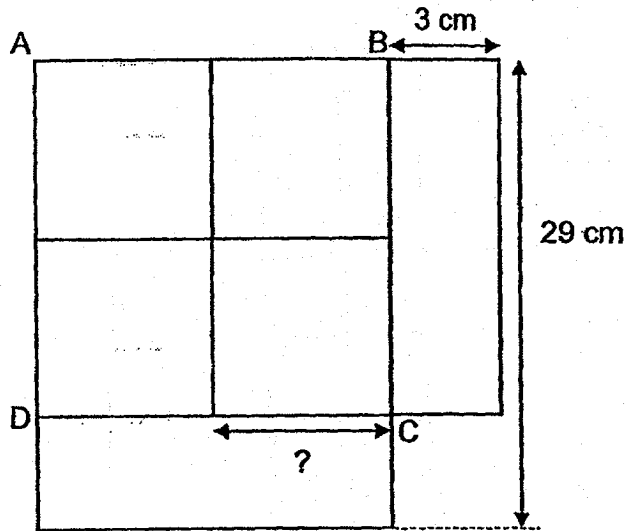
Ans: _____

13   (Go on to the next page)

35. In the square grid, two sides of a square WXYZ have been drawn. Complete the square WXYZ.

(Go on to the next page)

36. ABCD is made up of 4 identical squares. 2 identical shaded rectangles are placed on side BC and DC respectively. What is the length of each square?
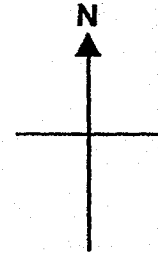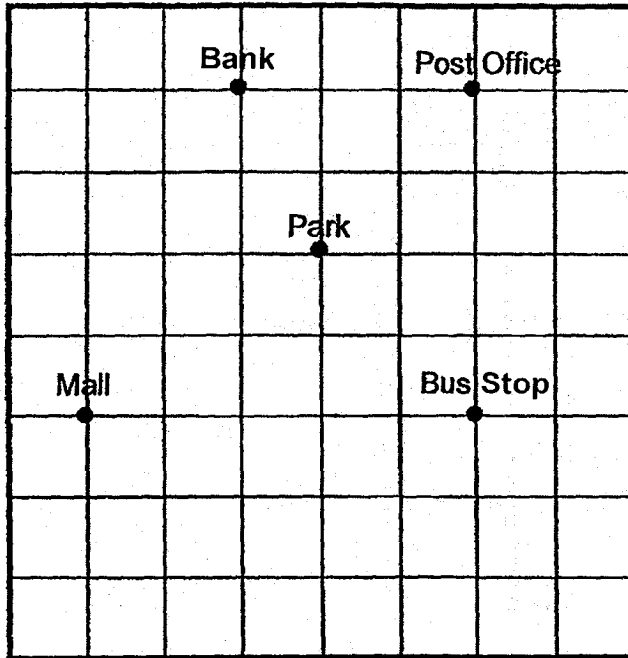
Ans: _____ cm

The square grid shows the plan of a town.
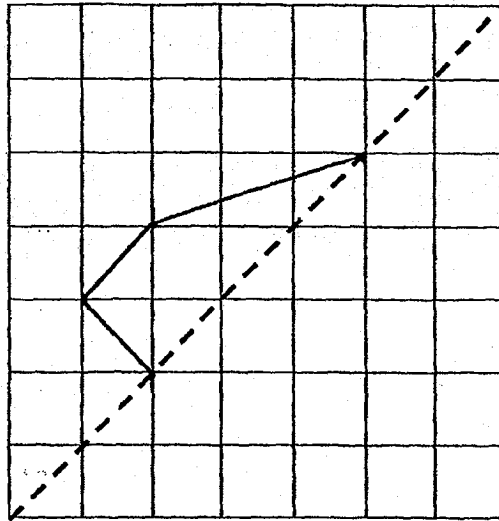Look at the square grid and answer questions 37 and 38.

37. The town council wants to build a bridge. The location of the bridge is south of the bank and west of the bus stop. Put a cross (X) on the square grid where the bridge will be built.

38. In what direction is the park from the bus stop?

Ans: _____

16   (Go on to the next page)

39. The dotted line in the figure is a line of symmetry.
Complete the symmetric figure.

40. Andy and Betty have a total of 100 badges. Andy and Callie have a
total of 130 badges.

Based on the information given above, put a tick in the correct column
for the statement.

Statement	True	False	Not possible to tell
Callie has more badges than Betty.			

Total marks for questions 21 to 40

END OF SECTION B

40

17   (Go on to the next page)

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)

41.   Doris has 6 boxes of red paper clips and 4 bags of green paper clips. There are 185 red paper clips in each box and 40 green paper clips in each bag. How many more red paper clips than green paper clips are there?

Ans:_____ [4]

(Go on to the next page)
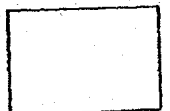
42. Rachel paid $185 for 5 similar plates and 4 similar bowls. Each bowl cost $8 more than each plate. How much did 1 such bowl cost?

Ans:_____ [4]

43. Morgan had a total of 585 blue beads, red beads and green beads. He had 76 fewer blue beads than red beads and 133 more green beads than red beads. How many red beads did he have?

Ans:_____ [4]

(Go on to the next page)

44: There was an equal number of ping pong balls in Box A and Box B at first. After 47 ping pong balls were removed from Box B and 47 ping pong balls were added in Box A, there were 236 ping pong balls in the two boxes altogether. How many ping pong balls were in Box A in the end?
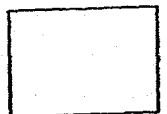
Ans: _____ [4]

(Go on to the next page)

45. Richard paid $473 for 5 similar cushions and 3 similar blankets.
Shane paid $339 for 3 similar cushions and 3 similar blankets
How much is the cost of 3 similar cushions?
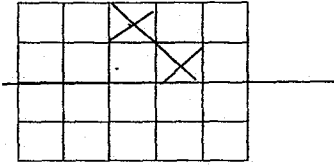
Ans:_____ [4]

END OF PAPER

SCHOOL   :   CATHOLIC HIGHPRIMARY SCHOOL
LEVEL   :   PRIMARY 4
SUBJECT :   MATH
TERM   :   2018 ~~CA1~~ SA1

PAPER 1 BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	1	4	2	1	3	4	3	1	2

Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
4	1	2	4	3	1	1	3	2	4

SECTION B

Q21)	89500
Q22)	73962 , 73926 , 73692
Q23)	20559
Q24)	6000
Q25)	275
Q26)	28 and 4

Q27)

Q28)	4963
Q29)	7403
Q30)	59 + 59 + 208 = 326
	326 + 59 = 385
Q31)	670 ÷ 2 = 335
	335 − 150 = 185
Q32)	29°

Q33)	45 + 18 = 63 90 − 63 = 27°
Q34)	20 − 3 = 17 17 x 4 = 68 3 x 6 = 18 68 + 18 = 86
Q35)	
Q36)	29 − 3 = 26 26 ÷ 2 = 13 cm
Q37)	
Q38)	North-west
Q39)	
Q40)	True
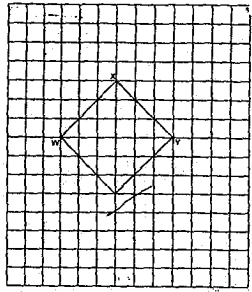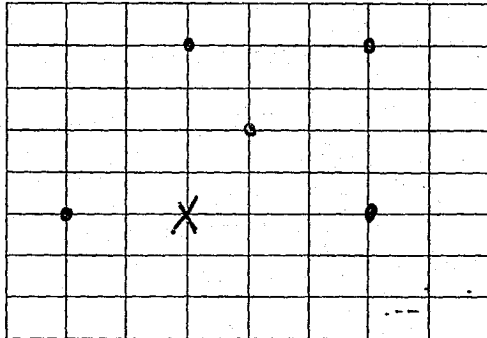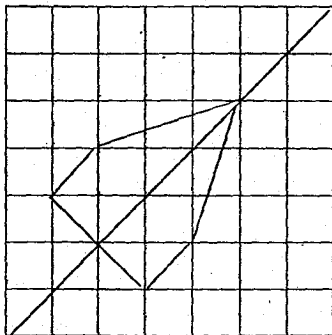
SECTION C

Q41)	$185 \times 6 = 1110$ $40 \times 4 - 160$ $1110 - 160 = 950$ There are 950 more paper clips
Q42)	$8 \times 4 = 32$ $185 - 32 = 153$ $153 \div 9 = 17$ $17 + 8 = 25$ 1 such bowl cost \$25
Q43)	$76 + 76 = 152$ $152 + 133 = 285$ $585 - 285 = 300$ $300 \div 3 = 100$ $100 + 76 = 176$ He had 176 red beads
Q44)	$142 \div 2 = 71$ $71 + 47 + 47 = 165$ There were 165 ping pong ball in the end
Q45)	$5C + 3C = 473$ $3C + 3C = 339$ $2C + \quad = 134$ $1C = 134 \div 2 = 67$ $3C = 67 \times 3 = \$201$ The cost of 3 similar cushions is \$201