Catholic High School
End-of-Year Examination 2013
Mathematics
Primary 4

Name : _____ (   )

Class: Primary 4 _____

Date: 22 October 2013

Duration: 1 h 45 min

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

Parent's Signature:_____

There are 3 sections consisting of **19 pages** in this paper.

Section A: Multiple-Choice Questions (MCQ)   20 x 2 marks

Section B: Short-Answer Questions   20 x 2 marks

Section C: Long-Answer Questions   5 x 4 marks

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 (OAS). SHADE the oval completely. All diagrams are not drawn to scale.

1. In which of the following numbers, does the digit 6 stand for 6 hundreds?

    (1) 6790

    (2) 5806

    (3) 9650

    (4) 9760

    (   )

2. Which of the following is a factor of both 45 and 63?

    (1) 7

    (2) 9

    (3) 13

    (4) 15

    (   )

3. Gabriel's annual salary when rounded off to the nearest hundred dollars is $67 900. Which of the following is his actual annual salary before it was rounded off?

    (1) $67 750

    (2) $67 754
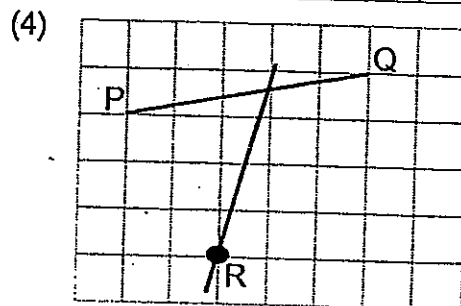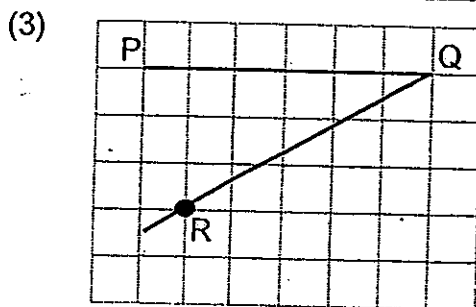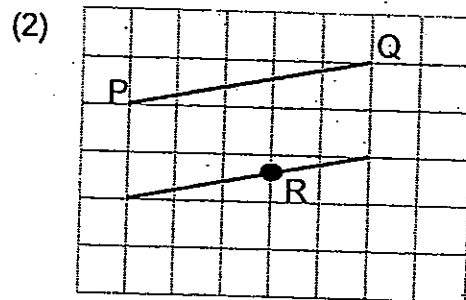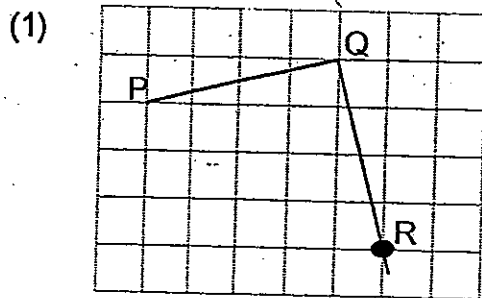
    (3) $67 819

    (4) $67 859

    (   )

4. In which of the following are the numbers arranged from the smallest to the greatest?

	(smallest)		(greatest)
(1)	0.079 ,	0.709 ,	0.79
(2)	0.079 ,	0.79 ,	0.709
(3)	7.09 ,	0.79 ,	0.709
(4)	7.09 ,	0.709 ,	0.79

    (   )

1

5. Damien drew a line perpendicular to line PQ through the point R in a square grid. Which of the following shows Damien's drawing?

(1)

(2)

(3)

(4)

( )

6. The area of a square is 81 cm². What is the perimeter of the square?

(1) 9 cm

(2) 18 cm

(3) 36 cm

(4) 37 cm

( )

7. $5\frac{3}{4} = \frac{\square}{12}$

What is the missing number in the box?

(1) 15

(2) 23

(3) 63

(4) 69

( )

8. Express $\frac{3}{20}$ as a decimal.

    (1) 0.3
    (2) 0.15
    (3) 1.5
    (4) 3.2   (   )

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9. Mrs Lim has 127 bags of 18 sweets each. She repacks all the sweets into boxes of 6 sweets. How many boxes of sweets does she have?

    (1) 381
    (2) 762
    (3) 1016
    (4) 2286   (   )

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10. A box contains black and red markers. $\frac{1}{3}$ of the markers in a box are black and the remaining 78 markers are red. How many markers are there in the box?
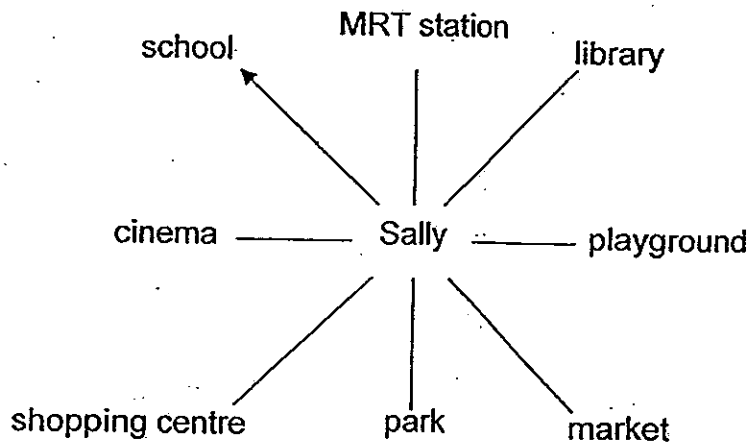
    (1) 26
    (2) 39
    (3) 117
    (4) 234   (   )

---

11. There is a stack of cards that can be shared equally among 3, 6 or 7 people. How many cards are there in the stack?

    (1) 18
    (2) 21
    (3) 36
    (4) 42   (   )

12. Sally is facing the school. She turns through an angle of 225° in the clockwise direction. Which place will she face?

    (1) park

    (2) school

    (3) cinema

    (4) market   (   )

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13. There are 35 children in a class. $\frac{6}{7}$ of the class are girls. How many girls are there in the class?

    (1) 29

    (2) 30

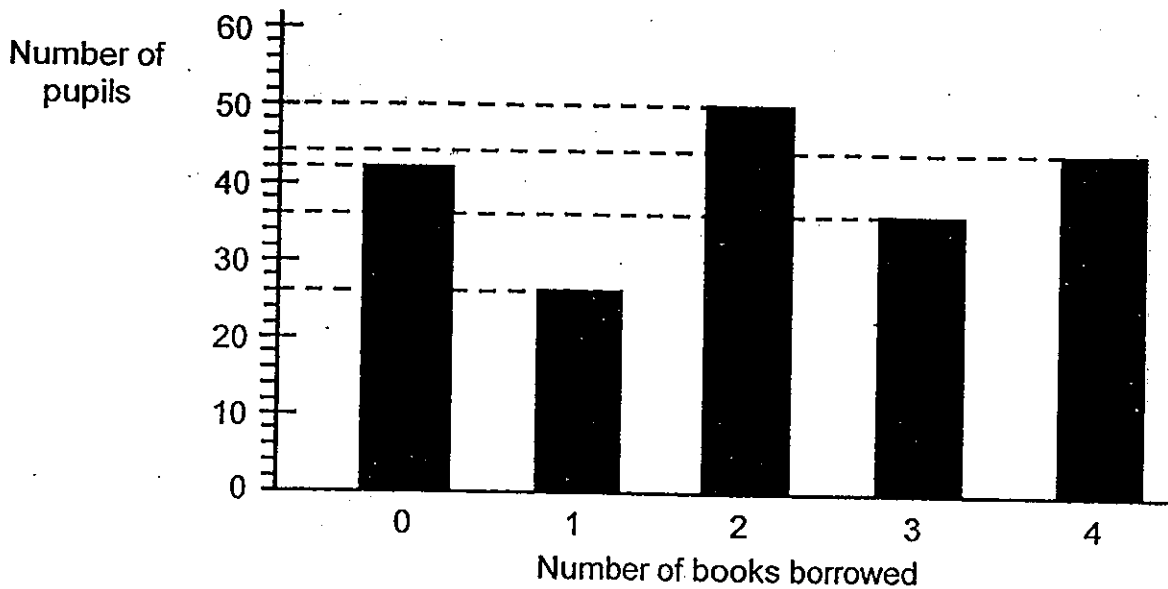   (3) 3

    (4) 5   (·)

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14. Molly takes 25 min to cook a plate of pasta, $\frac{1}{4}$ h to make a bowl of salad and $1\frac{1}{2}$ h to bake a chicken pie. How long does she take to prepare all three dishes?

    (1) 1 h and 10 min

    (2) 1 h and 30 min

    (3) 2 h and 10 min

    (4) 2 h and 30 min   (   )

4

The graph below shows the number of pupils who visited the school library in a week. Study the graph carefully and answer questions 15 and 16.

15. How many pupils borrowed more than 2 books?

    (1)   50

    (2)   80

    (3)   130

    (4)   156   (   )

16. What is the total number of pupils who borrowed books during the week?

    (1)   156

    (2)   198

    (3)   410

    (4)   452   (   )

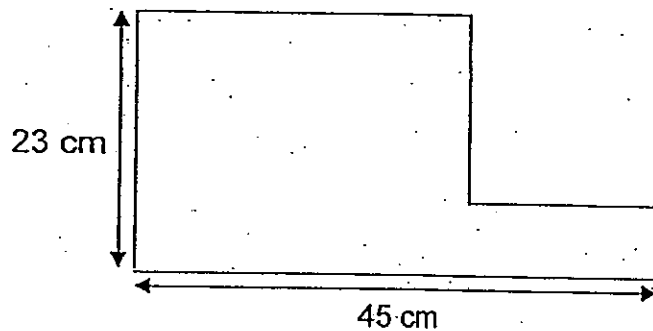17. The letters A, B, C and D form the following repeated pattern shown below.

        AAA B C D A AA B C D A AA B C D A AA B C D ...

Which letter is in the 58th position?

    (1)   A

    (2)   B

    (3)   C

    (4)   D   (   )

18. What is the perimeter of the figure shown below?

    23 cm

               45 cm

    (1)   .34 cm
    (2)   68 cm
    (3)   136 cm
    (4)   1035 cm
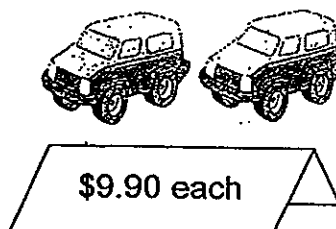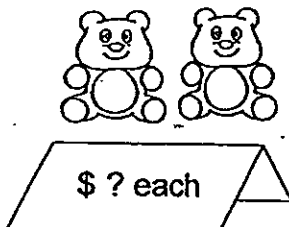
                                             (   )

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19. Jin Rae wanted to buy 9 transformer figurines but he was short of $14. He then bought 7 transformer figurines and had $2 left in his wallet. Each of the transformer figurines is of the same cost. What is the cost of a transformer figurine?

    (1) $8
    (2) $2
    (3) $12
    (4) $16

                                               (   )

---

20. Mr Lim paid $59.60 for 2 bears and 2 toy cars shown below. The bears are of the same price. What is the cost of each bear?

    $? each $9.90 each

    (1) $19.90
    (2) $24.85
    (3) $39.80
    (4) $49.70

                                             (   )

Question 21 to 40 carries 2 marks each. Write your answer in the blank provided.

Do not write in this space.

21. Write twenty-eight thousand, five hundred and six in figures.

Ans:_____

22. Express 76 tenths as a decimal.

Ans:_____

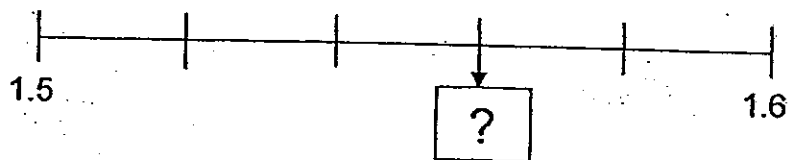23. Find the value of $\dfrac{7}{12} + \dfrac{5}{6}$.

Express your answer as a mixed number in its simplest form.

Ans:_____

24. Study the number line below. What is the missing decimal?

1.5   ?   1.6
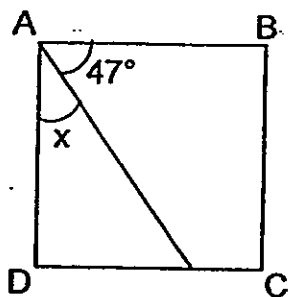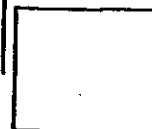
Ans: _____

25. A number when divided by 7 has a quotient of 21 and a remainder of 1. What is this number?

Ans: _____

26. ABCD is a square. Find the value of ∠x.

Ans: _____ °

8

27. Find the value of 5.78× 6.
Round off the answer to the nearest 1 decimal place.
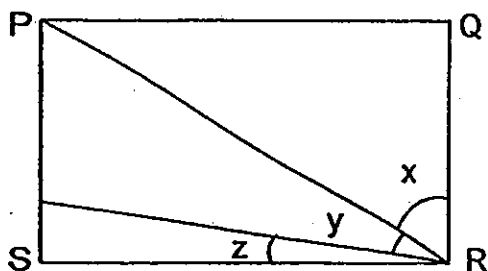
Ans: _____

28. Sabrina left her home at 1.50 p.m. to go to the supermarket. She took a 35 min walk to the supermarket. What time did she reach the supermarket?
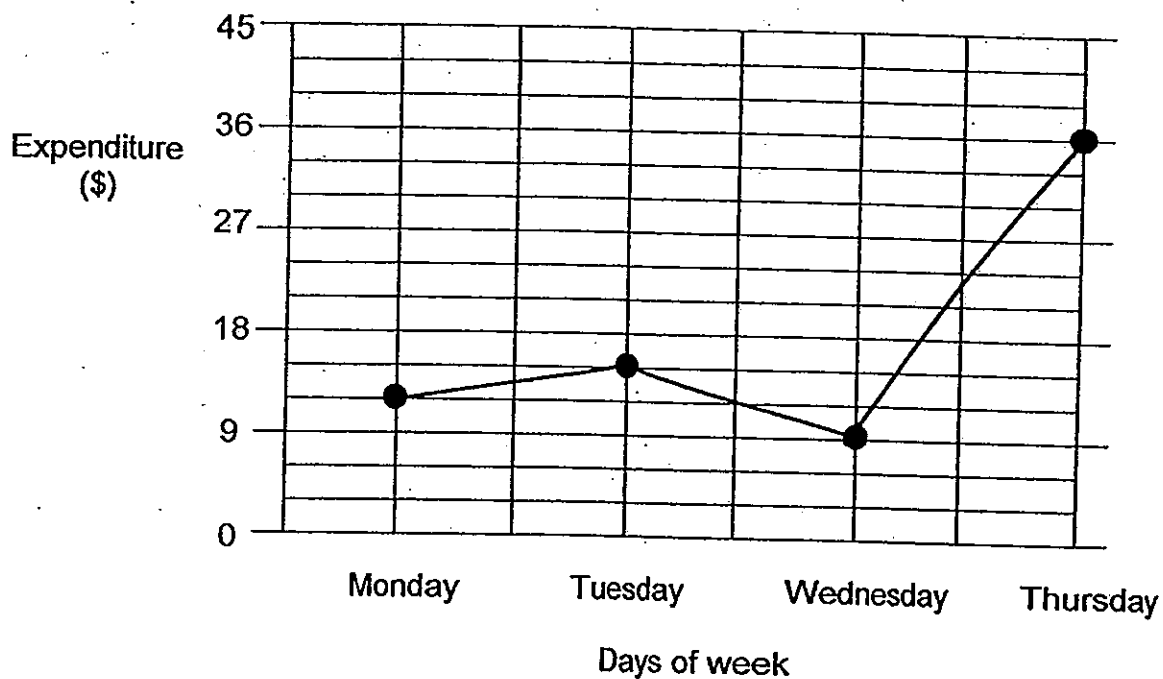Give your answer in 24-hour clock format.

Ans: _____

29. In the figure below, PQRS is a rectangle. $\angle x$ is thrice of $\angle y$ and $\angle y$ is twice of $\angle z$. Find the value $\angle z$.

Ans: _____ °

9

The line graph below shows the amount of money Leon spent in 4 days.
Study the line graph carefully and answer questions 30 and 31.
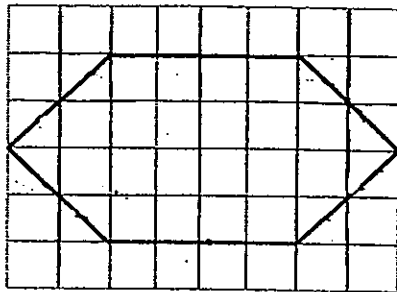
Days of week

30. How much less did Leon spend on Monday than on Thursday?

Ans: $_____

31. Express the least expenditure in the 4 days as a fraction of the greatest
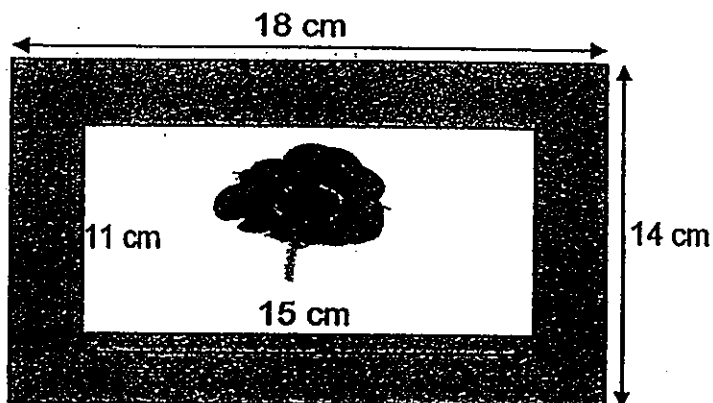expenditure in the 4 days. Give your answer in the simplest form.

Ans: _____

10

32. The figure shown below is drawn in a square grid.

How many pairs of parallel lines formed the figure?

Ans: _____

33. A rectangular picture is mounted onto a rectangular frame as shown below. What is the area of the shaded frame?
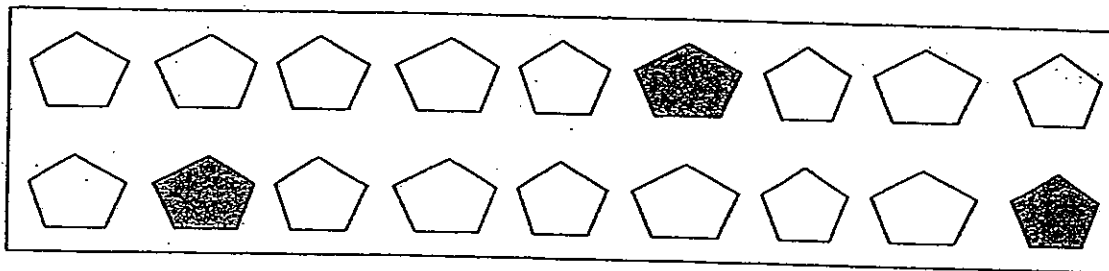
18 cm

11 cm

14 cm

15 cm

Ans: _____ cm²

11

34. Study the shapes below. How many more shapes must be shaded so that $\frac{2}{3}$ of the shapes are shaded?

Do not write
in this space

Ans:_____

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35. Use all the digits given to form the greatest 4-digit odd number. Each digit can only be used once.

| 3 | 7 | 0 | 8 |

Ans:_____

---

36. Tim went shopping with $180. He spent $\frac{1}{6}$ of his money on food and some money on a pair of shoes. He then found out that he had $72 left. How much did he pay for the shoes?

Ans: $ _____

12

37. Ryan had twice as much money as Thomas at first. After Ryan spent $67 and Thomas spent $13, both of them had an equal amount of money left. How much money did Ryan have at first?

Ans: $_____

38. Judy has $\frac{1}{7}$ as many hairclips as Lena. They have a total of 280 hairclips. How many hairclips does Judy have?

Ans: _____

39. Kathy baked some apple muffins, blueberry muffins and chocolate muffins. She baked 12 less blueberry muffins than apple muffins and 14 more chocolate muffins than apple muffins. She baked a total of 65 muffins. How many blueberry muffins did she bake?
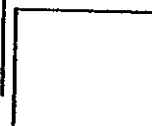
Ans: _____

40. Daniel had thrice as many cards as Ken. After Daniel gave away 120 cards, Ken had thrice as many cards as Daniel. How many cards did Daniel have in the end?

Ans: _____

14

Section C: Long Answer Questions (20 marks)

Question 41 to 45 carries 4 marks each. Write your answer in the blank provided. Show your workings clearly.

41. There is a total of 245 marbles in boxes A and B and a total of 623 marbles in boxes B and C. There are 4 times as many marbles in box C than A. How many marbles are there in box B?

Ans:_____[4]

42. Bag A, B and C contain some beads. The number of beads in Bag A is $\frac{7}{9}$ of

the number of beads in Bag B. The number of beads in Bag C is $\frac{1}{3}$ of the

number of beads in Bag B. Bag B has 66 beads more than Bag C. What is the total number of beads in the 3 bags?

Ans: _____ [4]

43. Linda had some stickers at first. She gave 16 stickers away and pasted $\frac{2}{9}$ of the remaining stickers into sticker book A and the rest into sticker book B. She had 90 more stickers in sticker book B than sticker book A. How many stickers did she have at first?

Ans: _____ [4]

44. There were 350 pupils in school A and 1186 pupils in school B at first. When an equal number of pupils were admitted into each school, the number of pupils in school B was thrice that of school A. How many pupils were in school B in the end?

Ans:_____[4]

SCHOOL : CATHOLIC HIGH
SUBJECT : PRIMARY 4 MATHEMATICS
TERM : SA2

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

18	Q19	Q20
3	1	1

Q21) 28506
Q22) 7.6
Q23) 1 5/12
Q24) 1.56
Q25) 148
Q26) 43
Q27) 34.7
Q28) 1425
Q29) 10
Q30) 24
Q31) ¼
Q32) 3
Q33) 87
Q34) 9
Q35) 8703
Q36) 78
Q37) 108
Q38) 35
Q39) 9
Q40) 15

Q41) 3u = 378
       1u = 378/3 = 126
       B = 245 -126
         = 119

Q42) 6u = 66
       1u = 66/6 = 11
       19u = 11 x 19 = 209

Q43) 5u = 90
       1u = 18
       9u = 18 x 9 = 162
       162 + 16 = 178

Q44) 2u = 1186 - 350 = 836
       1u = 836/2 = 418
       418 - 350 = 68
       1186 + 68 = 1254

Q45a) 8
b) 12
c) 20 x 2 =40
   40 + 21 = 61