Catholic High School
End-of-Year Examination 2012
Mathematics
Primary 4

Name :_____( )

Class: Primary 4 _____

Date: 24 October 2012

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

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

For each of the questions from 1 to 20, 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 (OAS).

1. What is the missing number in the box below?

$$3.09 = 3 + \frac{9}{\square}$$

(1) 1
(2) 10
(3) 100
(4) 1000

2. Arrange the following fractions from the greatest to the smallest

$$\frac{1}{6} \; , \; \frac{3}{4} \; , \; \frac{7}{12}$$

(greatest) *(smallest)*

(1) $\frac{7}{12}$, $\frac{3}{4}$, $\frac{1}{6}$

(2) $\frac{3}{4}$, $\frac{1}{6}$, $\frac{7}{12}$

(3) $\frac{1}{6}$, $\frac{7}{12}$, $\frac{3}{4}$

(4) $\frac{3}{4}$, $\frac{7}{12}$, $\frac{1}{6}$

3. Which of the following decimals has the greatest value?

(1) 0.038
(2) 0.138
(3) 0.318
(4) 0.381

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

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

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

(3) $\frac{2}{9}$

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

5. Which of the following are common factors of 24 and 36?

(1) 1 and 8
(2) 2 and 9
(3) 3 and 12
(4) 4 and 18

6. 6 tens, 3 tenths and 15 hundredths is

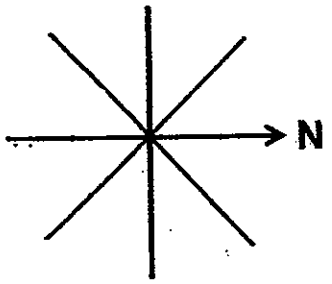
(1) 6.45
(2) 63.15
(3) 60.45
(4) 6.315

7. Complete the following number pattern.

145, 148 _____, 163, 175, 190

(1) 151
(2) 154
(3) 157
(4) 160

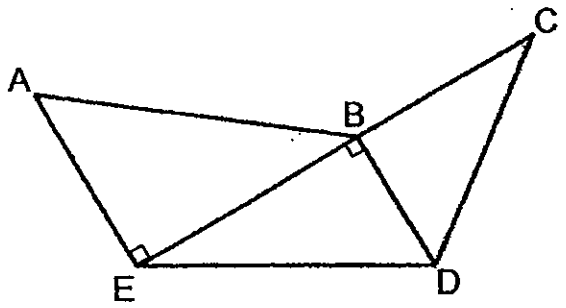
8. Look at the 8-point compass below.



Aaron is facing south. If he turns through an angle of 225° in the clockwise direction, which direction will he be facing?

(1) north-east
(2) north-west
(3) south-east
(4) south-west

9. One of the lines in the figure is parallel to BD. Which line is parallel to BD?



(1) AE
(2) BE
(3) CD
(4) DE

10. A big box contains twice as many chocolates as a small box. If 3 small boxes and 1 big box contain 60 chocolates, how many chocolates does the big box contain?

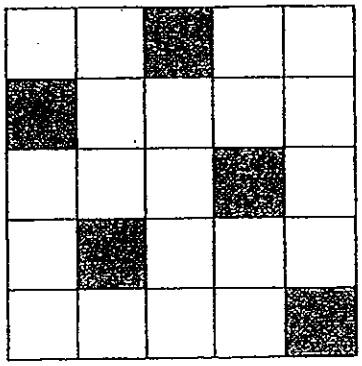
(1) 12
(2) 15
(3) 24
(4) 36

11. What is the missing number in the box?

$$\frac{10}{15} = \frac{\square}{9}$$

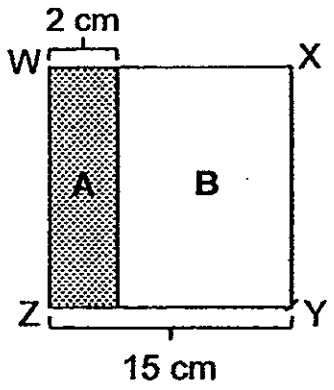
(1) 1
(2) 2
(3) 6
(4) 7

12. The figure below is made up of identical unit squares.
Express the shaded portion as a decimal of the whole figure.



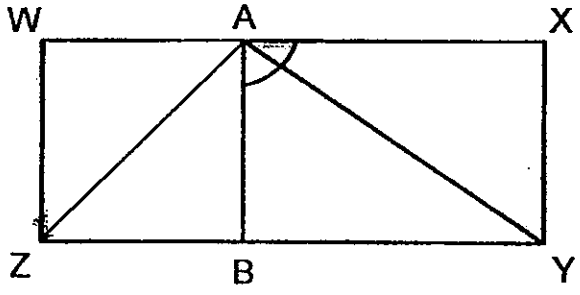
(1) 0.02
(2) 0.05
(3) 0.2
(4) 0.5

13. Square WXYZ is made up of Rectangle A and Rectangle B. What is the area of Rectangle B?



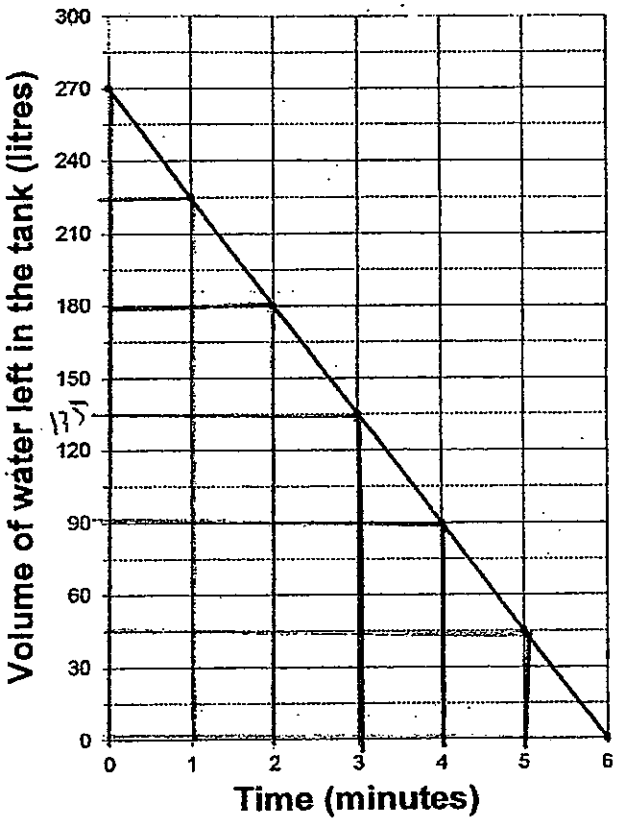
(1) 185 cm^2
(2) 195 cm^2
(3) 205 cm^2
(4) 225 cm^2

14. Rectangle WXYZ is made up of Square WABZ and Rectangle AXYB. Find $\angle ZAX$.



(1) 45°
(2) 90°
(3) 135°
(4) 155°

The line graph shows the time it took to empty a container filled with water. Study the graph carefully and answer Question 15 and 16.



15. How much water was left in the tank after 3 minutes?

(1) 130 litres
(2) 135 litres
(3) 140 litres
(4) 145 litres

16. How long did it take to empty 90 litres of water?

(1) 1 minute
(2) 2 minutes
(3) 3 minutes
(4) 4 minutes

17. Bernice cleans her house every Saturday from 12 15 to 13 10. If there are 4 Saturdays in October, how long does Bernice spend cleaning the house in October?

(1) 2 h 20 min
(2) 2 h 40 min
(3) 3 h 20 min
(4) 3 h 40 min

18. There were 60 children in the hall. If $\frac{3}{5}$ of the children are girls, how many more girls than boys are there in the hall?

(1) 12
(2) 20
(3) 24
(4) 36

19. Rosanne finished reading her storybook within two days. On the first day, she read $\frac{1}{3}$ of her storybook. If she continued reading from page 14 on the second day, what was the total number of pages in her storybook?

(1) 21
(2) 28
(3) 39
(4) 42

20. Candice had \$8. Dawn had \$4.50 less than Candice. Eve had \$2.50 more than Candice. How much money did the three girls have altogether?

(1) \$17.50
(2) \$22.00
(3) \$31.00
(4) \$35.50

SECTION B: Open-ended Questions (20 x 2 marks)

Show your working clearly in the space provided and write the correct answers in the answer boxes provided.

21. Write eighty-seven thousand and fifty-nine in figures.

Ans: ☐

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

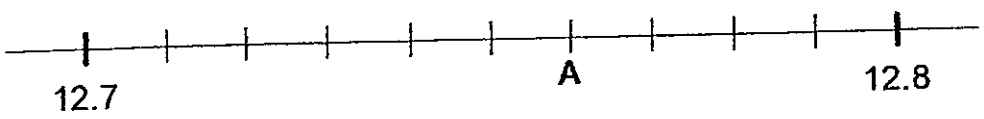
$$7\frac{3}{5} = \frac{\square}{5}$$

Ans: ☐

23. Write $2\frac{4}{25}$ as a decimal.

Ans: ☐

24. Write the decimal represented by A.



Ans: ☐

25. Find the value of $1 - \frac{1}{8} - \frac{1}{4}$

Ans: [ ]

26. Find the value of 8.36 x 6.

Ans: [ ]

27. What is the remainder when 1248 is divided by 7 ?

Ans: [ ]

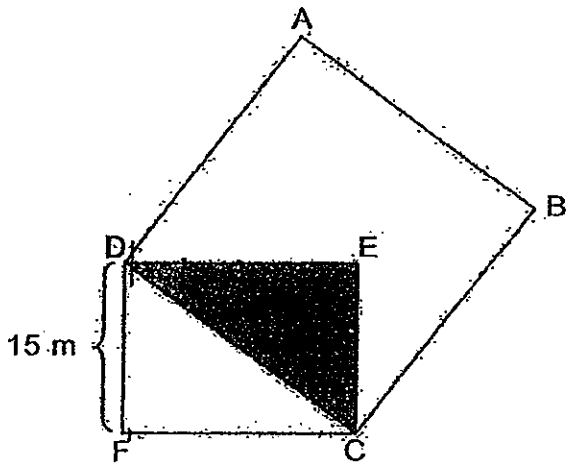
28. How many halves are there in 5 wholes ?

Ans: [ ]

29. What is 13 tenths less than 205.68?

Ans : ____

30. The figure below is made up of a rectangle DECF and a square ABCD. The length of the rectangle is $\frac{4}{5}$ the length of the square. If the shaded area is 150 m2 , what is the length of the square?



Ans: ____ m

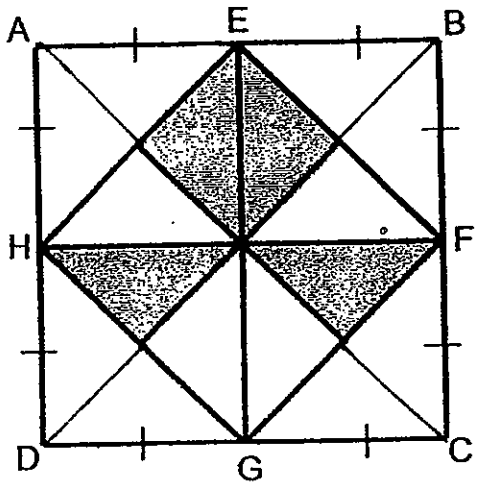
31. A 5-digit whole number is made up of different even digits. What is the smallest possible whole number?

Ans: [ ]

32. What is the smallest possible whole number that can be rounded off to the nearest ten to get 13 400?

Ans: [ ]

33. ABCD is a square. EFGH is a smaller square that is divided equally into 8 parts. What fraction of the figure below is shaded? Give your answer in its simplest form.



Ans: [ ]

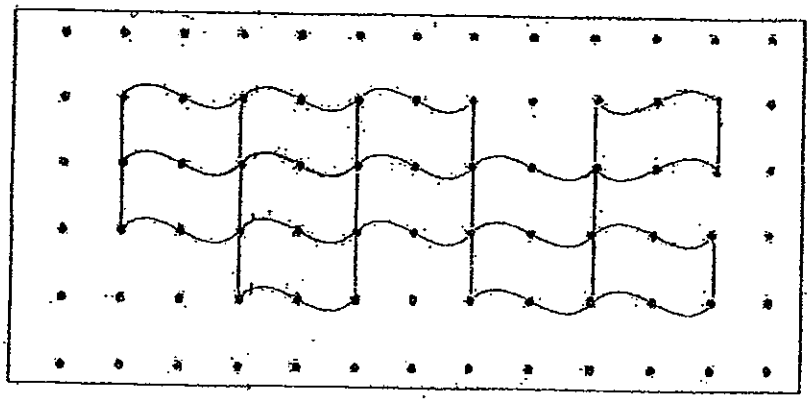
34. George has $5. He has eight 10¢ coins and as many 20¢ coins as 50¢ coins. How many 20¢ coins does George have ?

Ans: [ ]

35. The area of rectangle is 144 cm2. Given that its breadth is $\frac{1}{4}$ its length, find its breadth

Ans: [ ]

36. The pattern in the box below shows part of a tessellation. Identify and shade the incorrect unit shape.



37. What is the missing number in the box ?

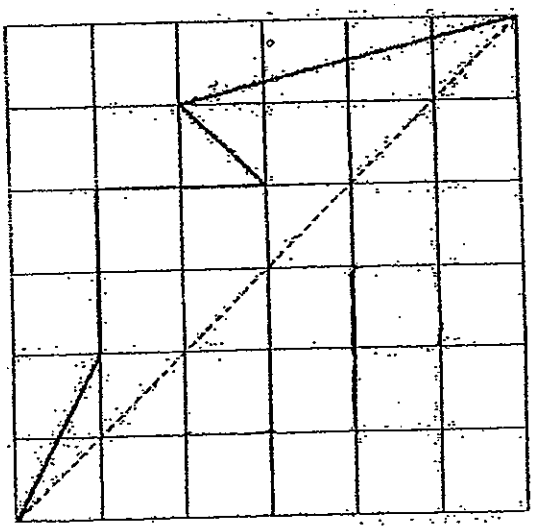
175 x 15 + ☐ x 15 = 4500

Ans : ☐

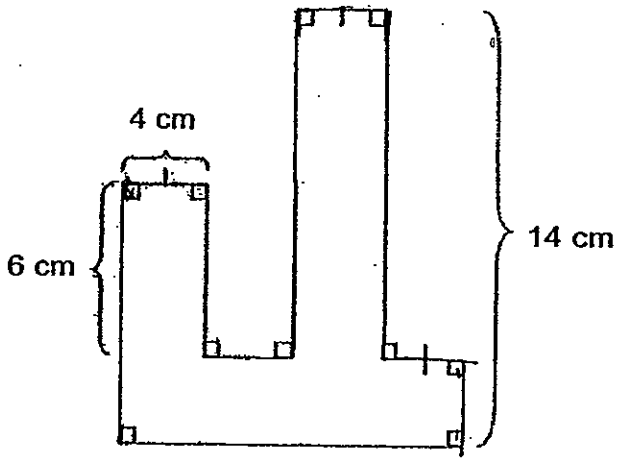
38. $\frac{3}{7}$ of the Andrew's money is equal to $\frac{3}{8}$ of Bernard's money. If Bernard has $136, how much more money does Bernard have than Andrew?

Ans : ☐

39. Complete the symmetric figure using the dotted line as the line of symmetry.



40. All lines in the figure below meet at right angles
Find the perimeter of the figure.



Ans:

SECTION C: Story Sums (5 x 4 marks)

Solve the following story sums. All workings must be shown clearly.
Draw models if necessary.

41. Paul and Eugene have $439.50 altogether. Leon and Eugene have $790.50 altogether. Leon has thrice as much money as Paul. How much more money does Eugene have than Paul?

Ans : _____[4]

67

42. A packet of marbles was shared among Wendy, Linda and Karen. Wendy received $\frac{1}{3}$ of the marbles, Linda received $\frac{7}{12}$ of the marbles and Karen received the remaining marbles. If Wendy received 54 marbles more than Karen, how many marbles did Linda receive?

Ans : _____ [4]

43. Michelle had four times as many stickers as Vanessa. After each of them bought an equal number of stickers from the bookshop, Michelle had thrice as many stickers as Vanessa. if Vanessa had 57 stickers in the end how many stickers did each of them buy from the bookshop?

Ans :_____ [4]

44. Amanda, Bernice and Candice have a total of 1920 stickers. Bernice has 120 stickers more than Amanda. Candice has thrice the total number of stickers that Amanda and Bernice have. How many more stickers does Candice have than Bernice?

Ans : _____ [4]

45. Study the figures shown below. The figures are made up of sticks and dots.

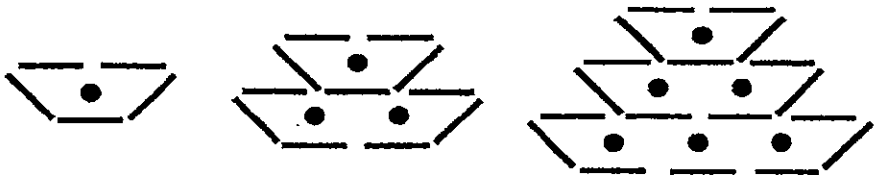


Figure 1 Figure 2 Figure 3

Figure number	Number of dots	Number of sticks
1	1	
2	3	
3	6	

(a) How many dots are needed to form Figure 4?

(b) How many sticks are needed to form Figure 10?

Ans : a)_____[2]

b)_____[2]

END OF PAPER

☺ ***Please check your working and answers.*** ☺

ANSWER SHEET

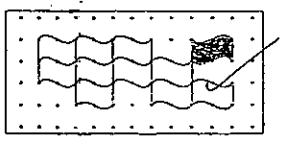
EXAM PAPER 2012

SCHOOL : CATHOLIC HIGH PRIMARY SCHOOL
SUBJECT : Primary 4 - MATHS
TERM : SA 2

Paper 1

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

21 87059
22 38
23 2.16
24 12.76
25 5/8
26 50.16
27 2
28 10
29 204.38
30 25
31 20468
32 13395
33 1/4
34 6
35 6
36



37 125
38 17
39

40 72

41 790.50 - 439.50 = 351
351 ÷ 2 = 175.50
439.50 - 175.50 = 264
264 - 175.50 = $88.50

42 1/3 = 4/12
54 ÷ 3 = 18
18 x 7 = 126

43 57 x 3 = 171
171 ÷ 9 = 19

44 A > 1u
B > 1u + 120
C > 6u + (3 x 120)
1920 - 120 - (3 x 120) = 1440
8u > 1440
1u > 180
Difference = 5u + 240
= 5 x 180 + 240
= 1140

45a 1 + 2 + 3 + 4 = 10

45b 95