CATHOLIC HIGH SCHOOL
MID-YEAR EXAMINATION 2010
MATHEMATICS
PRIMARY 3

Name :_____(   )

Class: Primary 3 _____

Date: 21 May 2010

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 **18 pages** in this paper.

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

Section B: Open-Ended Questions   20 x 2 marks

Section C: Story Sums   5 x 4 marks

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

For each of the question 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 value of the digit 9 in 8925?

    (1) 9 ones
    (2) 9 tens
    (3) 9 hundreds
    (4) 9 thousands

2. The picture below shows a pencil and an eraser.
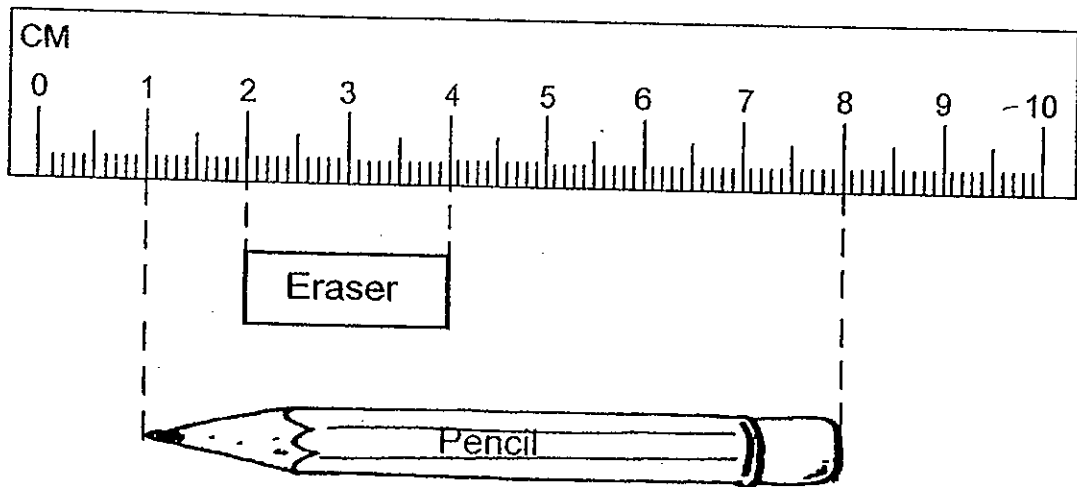
    The pencil is _____ longer than the eraser.

    (1) 5 cm
    (2) 6 cm
    (3) 7 cm
    (4) 8 cm

3. 1860 is 300 less than _____.

    (1) 300
    (2) 1560
    (3) 1860
    (4) 2160

1

4. Express 2h 15 minutes in minutes.

   (1) 125 min
   (2) 135 min
   (3) 145 min
   (4) 215 min

5. 3 thousands + 600 tens + 25 ones = _____.

   (1) 3625
   (2) 3850
   (3) 9025
   (4) 9625

6. Which of the following sets of numbers is arranged from the biggest to the smallest?

   (1) 9306, 9603, 6930
   (2) 9251, 1259, 5921
   (3) 3518, 5138, 8315
   (4) 9752, 9275, 7529

7. Find the product of 162 and 3.

   (1) 54
   (2) 159
   (3) 165
   (4) 486

8. 10 minutes to 12.00 p.m is the same as _____.

   (1) 11.50 a.m
   (2) 11.50 p.m
   (3) 12.10 a.m
   (4) 12.10 p.m

2

9. Mrs Lee bought 856 mangoes. She decided to pack them equally into bags of 5. How many mangoes are left unpacked?

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

10.

$$
\begin{array}{r}
5\ 3\ 5\ 6 \\
+\ 3\ 2\ A\ 7 \\
\hline
8\ 6\ 5\ 3 \\
\hline
\end{array}
$$

    The letter **A** represents _____.

    (1) 0
    (2) 5
    (3) 8
    (4) 9

11. The sum of 2 numbers is 510. The first number is 350. What is the difference between the two numbers?

    (1) 160
    (2) 190
    (3) 350
    (4) 860

12. Sulin baked some chocolate cakes. After she had given 50 chocolate cakes to her neighbour, she was left with 65 chocolate cakes. How many chocolate cakes did Sulin bake?

    (1) 15
    (2) 50
    (3) 65
    (4) 115

13. ☆ + ☆ = 18

What is the value of ☆ x ☆ ?

(1)   9
(2)   18
(3)   36
(4)   81

14. There are 4 shelves in a cupboard.
The top shelf has 60 books and the remaining 3 shelves have 58 books each. How many books are there altogether?
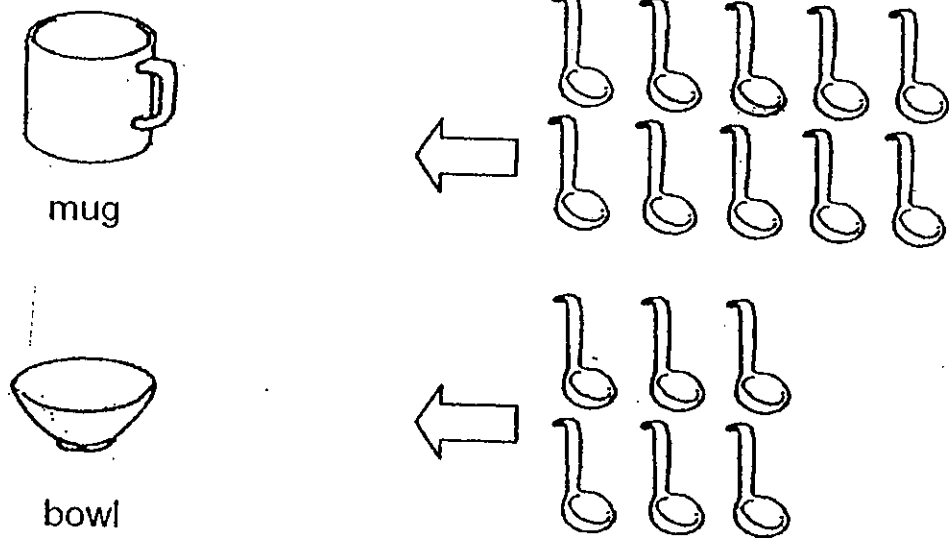
(1)   114
(2)   118
(3)   174
(4)   234

15.
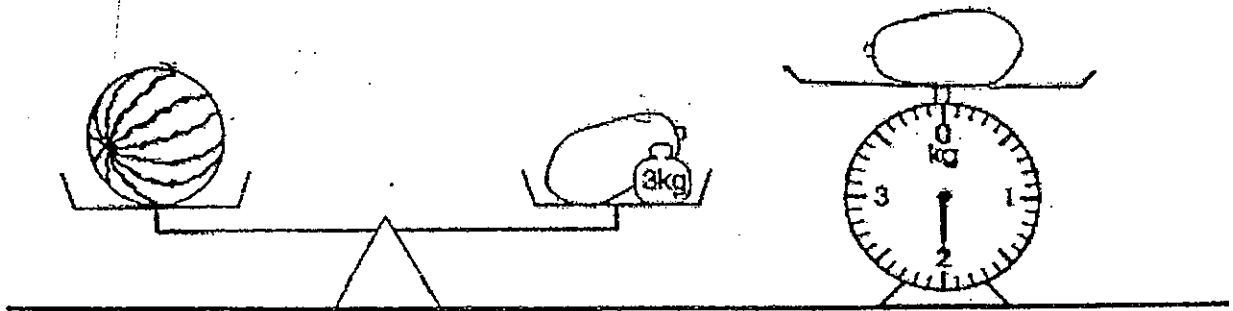
The mass of the watermelon is _____ kg.

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

4

16. Study the diagram below carefully.

2 mugs can hold _____ more spoonfuls of water than 3 bowls.

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

17. Peter and George had 140 marbles altogether.
Samuel had 120 marbles. He had 30 marbles more than Peter.
How many marbles had George?

(1) 20
(2) 30
(3) 50
(4) 110

5

18. A dress costs $72. It costs twice as much as a blouse.
How much change will I get back if I pay $150 for a blouse and a dress?

(1) $42
(2) $78
(3) $108
(4) $114

19. Paul has 90 bottle caps more than Jane. How many bottle caps must Paul give to Jane so that they will have the same number of bottle caps?

(1) 30
(2) 35
(3) 40
(4) 45

20. Sam left a shopping centre at 2.00 p.m.
He shopped for 4 hours 20 minutes. What time did he arrive at the shopping centre at first?

(1) 9.40 a.m.
(2) 10.20 a.m.
(3) 6.20 p.m.
(4) 9.40 p.m.

Please turn over to the next page.

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

21.   Write five thousand, nine hundred and twenty-three in numerals.

22.   Complete the number pattern below.

712, 701, _____, 679, 668.

What is the missing number?

23.   The figure below is made up of 8 identical rectangles.
        What fraction of the figure is shaded?

24.   What is the remainder when 142 is divided by 3?

25. Howard, Clement and Joseph worked on their English project from 8.30 a.m to 3.15 p.m. How long did they work on their project?

h	min

26. Arrange the following numbers in order. Begin with the **smallest.**

    1009   1900   1090   1990

(Smallest)

27. There are 20 more pupils in class 3A than class 3B. 8 pupils from class 3A joined class 3B. How many more pupils are there in class 3A than in class 3B in the end?

28. The total cost of one file and two books is $12. The total cost of one file and one book is $7. If David buys four files and six books, how much must he pay?


29. There are 24 stamps in album A. Album B has twice as many stamps as album A. Album C has thrice as many stamps as album B. How many stamps are there in album C?

	stamps

30. There are 158 men in a stadium.
There are thrice as many women in the same stadium.
How many more women than men are there in the stadium?

31. Peter has 5 apples. He wants to cut them into halves. How many halves will he get?
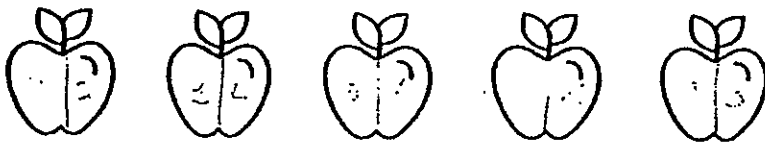
	halves

32. A baker made 280 pies. He supplied 37 pies to each of the 5 coffee shops. He then sold 60 of the remaining pies. How many pies had he left?

[pies]

33. Study the pattern carefully. Find the value of ☾

♡ + ☾ = 28

⚡ + ⚡ = 30

♡ + ⚡ = 34

[   ]

34. The diagram below shows the amount of money that Jason has.

He decided to exchange them for $2 notes.
How many $2 notes will he get?

35. What is the smallest 4-digit **even** number you can form using all the digits 3, 1, 2 and 7?

36. When I open a book, the sum of the two page numbers facing me is 25. What are the two page numbers?

and

11

37. I am a 3 digit number. The digit in the tens place is twice the value of the digit in the hundreds place. The digit in the ones place is the largest odd number while the digit in the hundreds place is the smallest even number. What number am I?

38.

A	B	C	D
4	5	6	7
11	10	9	8
12	13	14	15
19	18	17	16

Study the pattern in the diagram above. Which **letter** will the number '26' appear under?

39. Gabriel has a rope 4 m long. He cut the rope 4 times to divide it into smaller pieces of equal length. What is the length of each smaller piece of rope? Give your answer in **centimetres**.

cm

40. Dylan decides to give away his marbles to his 6 friends. If he wants each friend to receive 5 marbles, he will be short of 1 marbles. How many marbles does Dylan have?

	marbles

☺ *Please turn over to the next page* ☺

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

41. There are 48 more passengers on Bus A than on Bus B. How many passengers must be transferred from Bus A to Bus B so that there are 24 more passengers in Bus A than in Bus B?

Ans :_____[4m]

42. John has 12 more marbles than Mary. Tommy has twice as many marbles as John. If they have a total of 136 marbles, how many marbles does Mary have?

Ans : _____ [4m]

43. A container with 3 balls weighs 150g. The same container with 5 balls weighs 170g. What is the mass of 4 such balls?

Ans _____ [4m]

44. A table costs thrice as much as a chair. If 6 chairs and 1 table cost $990 altogether, find the total cost of a chair and a table.

Ans : _____ [4m]

45. A series of patterns is formed using sticks as shown below.
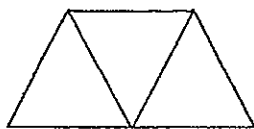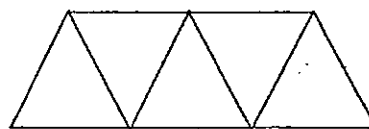The first 3 figures have been done for you.

Figure 1   Figure 2   Figure 3

a) Complete the table below.
Find the number of triangles formed in Figure 4 and 5. [2m]

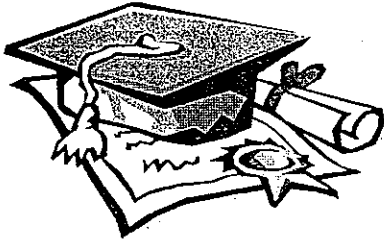| Figure number	Number of triangles formed
1	1
2	3
3	5
4	
5	

b) How many triangles are formed in Figure 10?

Ans : _____ [2m]

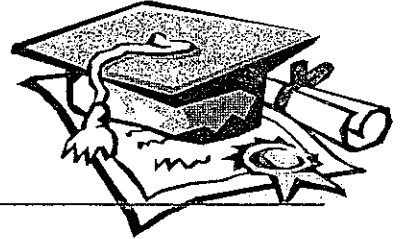**END OF PAPER**
☺ *Please check your working and answers.* ☺

ANSWER SHEET

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

Q18	Q19	Q20
1	4	1

21)5923   22)670   23)3/8   24)1   25)6h 45min

26)1009, 1090, 1900,1990   27)4   28)$38   29)144   30)316

31)10   32)35   33)9   34)14   35)1372   36)2 and 13

37)249   38)B   39)80cm   40)29   41)12   42)25

43)40g   44)$440   45)a)7,9   b)19