Catholic High School
Mid -Year Examination 2010
Mathematics
Primary 4

Name :_____(   )

Class: Primary 4_____

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: 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). Please use only 2B pencil and SHADE the oval completely. All diagrams are not drawn to scale.

1.   7 thousands and 8 tens is the same as_____.

    (1)   780
    (2)   7008
    (3)   7080
    (4)   7800   (   )

2.   Mr Ong has a packet of marbles that can be shared equally among 3, 4 or 9 pupils. What is the least possible number of marbles in the packet?

    (1)   27
    (2)   36
    (3)   72
    (4)   108   (   )

3.   Which one of these set of numbers is in ascending order?

    (1)   25631, 26631, 26531, 26731
    (2)   25631, 26531, 26631, 26731
    (3)   26731, 26631, 26531, 25631
    (4)   26731, 26531, 26631, 25631   (   )

4. $\frac{3}{4}$ turn = _____ $^\circ$

    (1)   90 $^\circ$
    (2)   225 $^\circ$
    (3)   270 $^\circ$
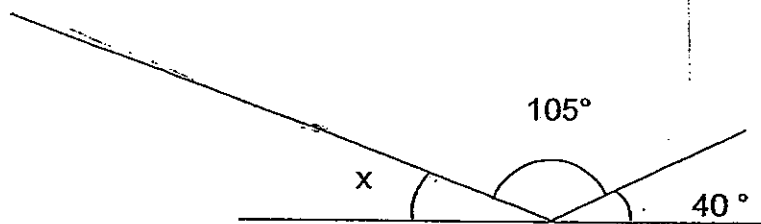   (4)   300 $^\circ$ (   )

5. Mr Tan has $\frac{2}{3}$ as many pens as Mr Lim. They have a total of 70 pens. How many pens must Mr Lim give Mr Tan so that they will have the same number of pens?

(1) 7
(2) 14
(3) 23
(4) 35   ( )

6.

Find ∠x.

(1) 35 °
(2) 40 °
(3) 50 °
(4) 145 °   ( )

7. John paid $189 for 2 watches and 3 T-shirts. Each watch cost thrice as much as a T-shirt. How much did he pay for each watch?

(1) $5
(2) $21
(3) $63
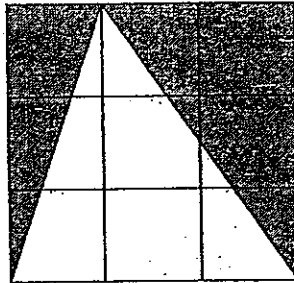(4) $126   ( )

8. Tommy has 105 oranges. He packs them into plastic bags. Each plastic bag can hold a maximum of 8 oranges. What is the minimum number of bags needed?

(1) 8
(2) 13
(3) 14
(4) 840   ( )

9. The figure is made up of squares of the same sizes. What fraction of the figure is shaded?

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

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

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

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

10. 5 pens and 4 books cost $50. If 2 pens and 2 books cost $24, how much does one pen cost?

(1) $2
(2) $6
(3) $10
(4) $26   (   )

11. Samuel has $\frac{1}{3}$ as many CDs as James. If James has 24 CDs more than Samuel, how many CDs do they have altogether?

(1) 8
(2) 12
(3) 36
(4) 48   (   )

3

12. Jordan and Keith had the same amount of money at first. Jordan bought a teddy bear for $16 and Keith bought a toy car for $40. How much money did Jordan have more than Keith in the end?

(1) $16
(2) $24
(3) $40
(4) $56   (   )

13. $2\dfrac{5}{7} = \dfrac{\boxed{}}{7}$

What is the missing number in the box?

(1) 10
(2) 14
(3) 17
(4) 19   (   )

14. $\dfrac{1}{5}$ of the marbles in a bag are red. $\dfrac{1}{2}$ of them are blue and the remaining 48 marbles are yellow. How many marbles are there altogether in the bag?

(1) 96
(2) 160
(3) 180
(4) 240   (   )

15. What is the least number of sweets Aaron needs to buy if he wants to pack them into packs of 9 or 24 without any remainder?

(1) 36
(2) 72
(3) 144
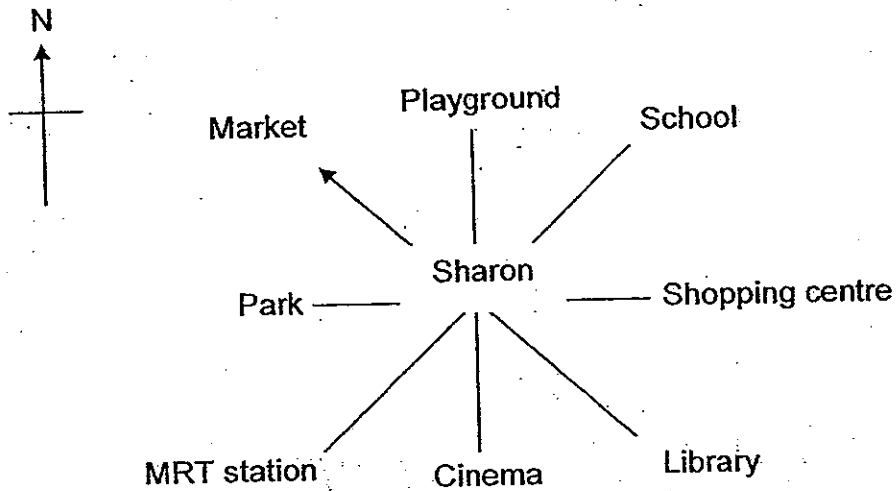(4) 216   (   )

16. The total cost of a handbag and wallet is $210. The cost of the wallet is $\frac{1}{5}$ the cost of the handbag. Find the cost of the handbag.
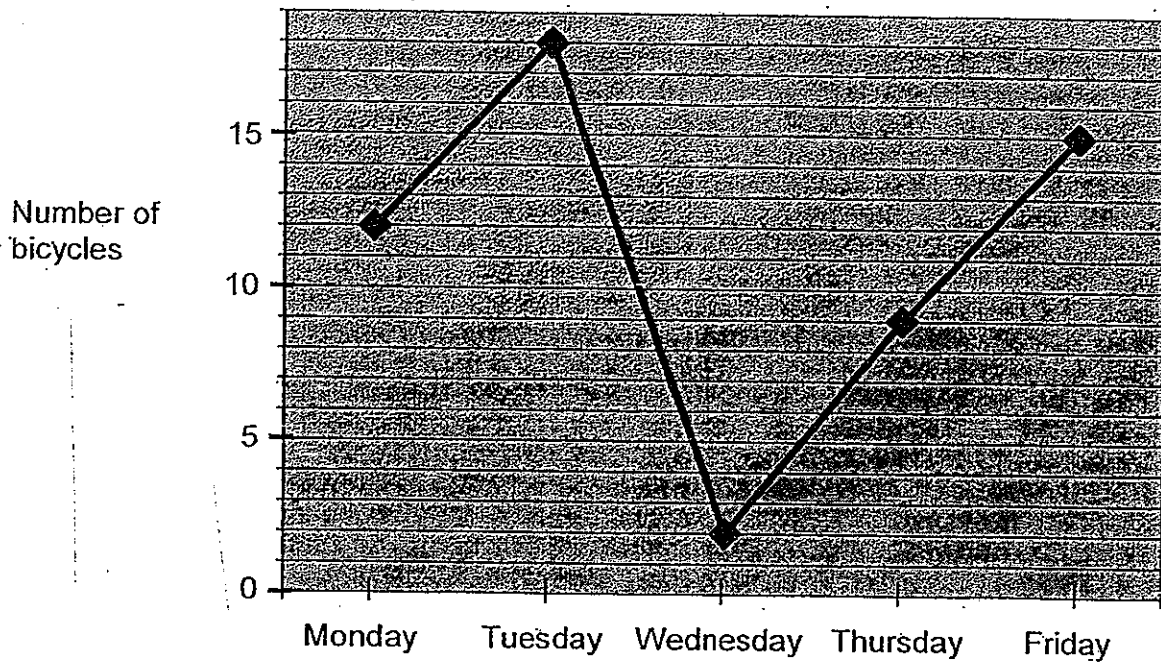
(1) $35
(2) $42
(3) $175
(4) $1050

(   )

17. Sharon is facing the market. If she turns through an angle of 270° in the clockwise direction, which place will she face?

(1) Park
(2) Library
(3) School
(4) MRT station

(   )

5

The line graph below shows the number of bicycles James sold from Monday to Friday. Using the line graph, answer questions 18, 19 and 20.

Number of bicycles

18. On which days did James sell more than 10 bicycles?

(1) Monday, Tuesday and Wednesday
(2) Monday, Tuesday and Friday
(3) Tuesday, Wednesday and Thursday
(4) Tuesday, Thursday and Friday   (   )

19. James earns $20 for each bicycle sold. How much more did he earn on Tuesday than on Thursday?

(1) $60
(2) $180
(3) $540
(4) $660   (   )

20. On which two days did James sell 20 bicycles altogether?

(1) Monday and Tuesday
(2) Tuesday and Wednesday
(3) Wednesday and Thursday
(4) Thursday and Friday   (   )

Section B: Short Answer Questions (40 marks)

Questions 21 to 40 carry 2 marks each. **Write your answers in the space provided. For questions which require units, give your answers in the units stated.**

21. Round off 64350 to the nearest hundred.

Ans:_____

22. Find the remainder when $345 \div 8$.

Ans:_____

23. There were 40 rows of 12 chairs each. How many rows will there be if the chairs need to be rearranged to form 8 chairs in a row?

Ans:_____

SCORE _____

24. Find the value of $\dfrac{7}{12} - \dfrac{1}{2}$

Ans:_____

25. A bag of sweets when shared among 3 or 4 pupils will always have 2 sweets remaining. What is the minimum number of sweets in the bag?

Ans:_____

26. A bag contains some 10-cent and 20-cent coins. There are twice as many 10-cent as 20-cent coins. If the total amount of money is $4, how many coins are there altogether?

Ans:_____

SCORE

27. There are 33 cars and motorbikes in a car park. These vehicles have a total of 88 wheels, how many motorbikes are there in the car park?

Ans:_____

28. John had $42 at first. He spent $\frac{1}{2}$ his money on toys and $\frac{1}{3}$ on books. How much money did he have left?

Ans: $_____

29. Mrs Ong was 24 years old when she gave birth to her daughter, Julia. In how many years time will Mrs Ong be 4 times as old as Julia?

Ans:_____

SCORE

30.   Measure the marked angle using a protractor.
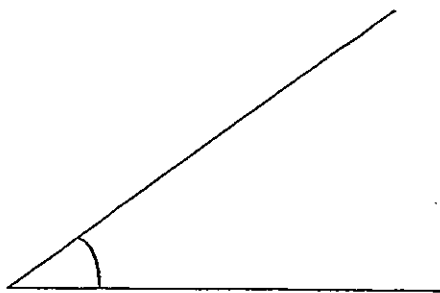
Ans:_____ °

31.   Mr Lee used $\frac{1}{3}$ kg of red beans, $\frac{1}{4}$ kg of green beans and $\frac{1}{6}$ kg of black beans to cook a dish. What was the total weight of all the beans he used to cook the dish? Express your answer as a fraction in the lowest term.
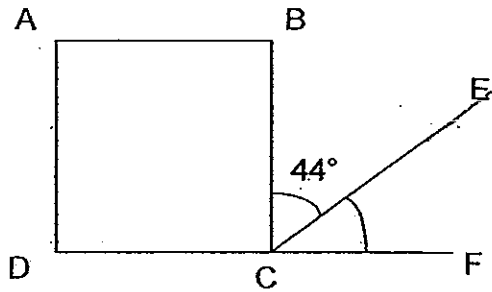
Ans:_____ kg

32.   Amy has $4 less than Sally. Sally has $13 less than Peggy. How much more money does Peggy have than Amy?

Ans: $_____

SCORE

33. ABCD is a square. DCF is a straight line. Find ∠ECF.

A   B

E

44°

D   C   F

Ans:_____°

34.

◇ x ◇ = 16

◇ x ☼ = 12

☼ x ☼ x ☼ = _____

Ans:_____

35. Sally, Kelly and Ally have a total of 156 beads. Sally and Kelly have the same number of beads. Ally has twice the total number of beads that Sally and Kelly have. How many beads does Kelly have?

Ans:_____

SCORE

36. The letters in the word "TIME" are written on a paper with 1-cm square grids as shown below. Name the letters which contain lines that meet at right angles.
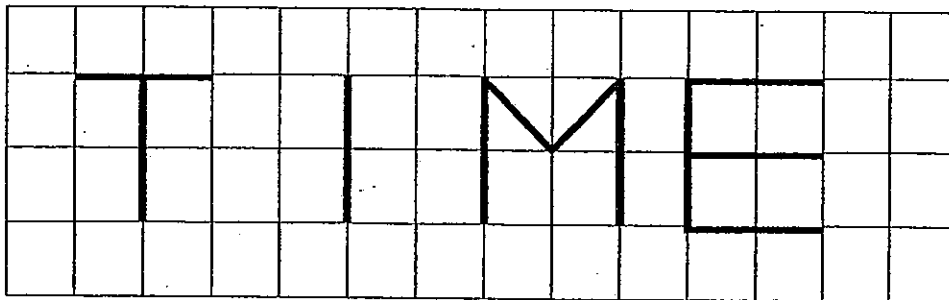
Ans:_____

37. A box contains black and white chocolates. $\frac{3}{7}$ of the chocolates are white chocolates. If there are 150 kg of white chocolate, how many kilograms of black chocolates are there in the box?

Ans:_____ kg

38. Jean and Mary had an equal number of stamps. After Jean gave Mary 45 of her stamps, Mary had twice as many stamps as Jean. How many stamps did Mary have at first?
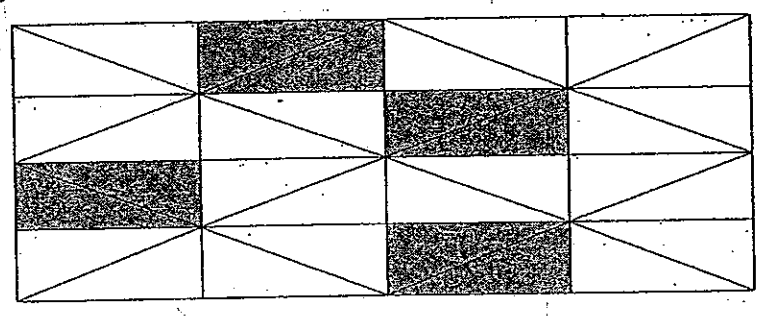
Ans:_____

SCORE [   ]

39. Ben spent $\frac{1}{5}$ of his money on books and $\frac{1}{3}$ of his money on a PSP. What fraction of his money was left?

Ans:_____

40. Find the fraction of the figure that is shaded.

Ans:_____

SCORE [ ]

13

Section C: Long Answer Questions (20 marks)

Questions 41 to 45 carry 4 marks each. Write your answers in the space provided. Show your working clearly.

41. Jason has thrice as much savings as Aaron. Jason has twice as much savings as Marcus. If the three of them have a total savings of $198, how much less money does Marcus have compared to Jason?

Ans: _____ [4m]

SCORE

42. Samuel and Tom spent $154 altogether. Samuel and Jackie spent $79 altogether. If Tom spent 4 times as much as Jackie, how much more money did Samuel spend than Jackie?

Ans: _____ [4m]

SCORE

43. Jane had $40 more than Mary. After Mary spent $\frac{1}{4}$ of her money, Jane had twice as much money as Mary. How much money did Jane have at first?

Ans: _____ [4m]

SCORE

44. Mr Lee used tiles to create patterns as shown below.

Figure 1   Figure 2   Figure 3   Figure 4
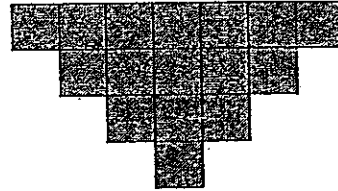
a) Complete the table below.
   Find the number of tiles for Figure 5 and 6. [2m]

Figure Number	Number of tiles
1	1
2	4
3	9
4	16
5	
6	

b) Find the number of tiles for Figure 30.

Ans: _____ [2m]

SCORE [ ]

45. Alan, Ben and Chris had a collection of stickers. $\frac{1}{2}$ of Alan's stickers is equal to $\frac{2}{3}$ of Ben's stickers. Ben has 14 stickers fewer than Chris. If they had 94 stickers altogether, how many stickers did Alan have?
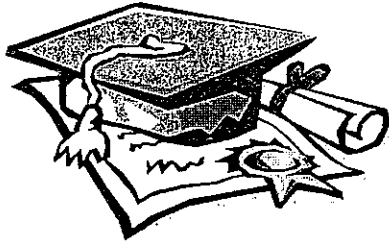
Ans: _____ [4m]
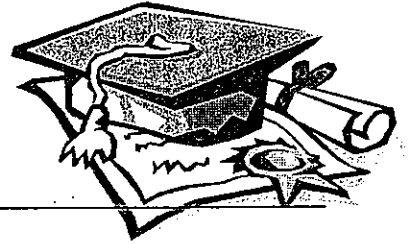
☺ END OF PAPER ☺

PLEASE CHECK YOUR WORK!

SCORE

ANSWER SHEET

EXAM PAPER 2010

SCHOOL : CATHOLIC HIGH PRIMARY
SUBJECT : PRIMARY 4 MATHEMATICS

TERM : SA1

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

Q18	Q19	Q20
2	2	2

21)64400　　22)1　　23)60　　24)1/12　　25)14

26)30　　27)22　　28)$7　　29)8　　30)37°

31) ¾ kg　　32)$17　　33)46°　　34)27　　35)26

36)TME　　37)200kg　　38)135　　39)7/15　　40) ¼

41)11u→$198
　　1u = $198 ÷ 11 = $18
　　3u→18 x 3 = $54

42)3u→154 − 79 = 75
　　1u→75 ÷ 3 = 25
　　79 − 25 = 54
　　54 − 25 = 29

43)2u→$40
　　1u→$40÷ 2 = $20
　　6u→$20 x 6 = $120

44)a)25, 36
　　b)30 x30 = 900

45)10u→94 − 14 = 80
　　1u→80 ÷ 10 = 8
　　4u→4 x 8 = 32 stickers