CATHOLIC HIGH SCHOOL

PRIMARY FOUR

MID - YEAR EXAMINATION 2012

MATHEMATICS

Name :_____ \ (   )

Class: Primary 4 _____

Date: 11 May 2012

Duration: 1 h 45 min

Parent's Signature:_____

Section A	36 / 40
Section B	/ 40
Section C	/ 20
Total Marks	75 / 100

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

91

1

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. 7 thousands and 3 ones is the same as _____ .

   (1)   7301

   (2)   7031

   (3)   7030

   (4)   7003   (   )

---

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

	(smallest)				(greatest)
1)	2 460	,	2 046	,	2 406
2)	2 046	,	2 460	,	2 406
3)	2 460	,	2 406	,	2 046
4)	2 046	,	2 406	,	2 460

   (   )

---

3. How many angles inside the figure are more than 90°?

   (1)   5

   (2)   2

   (3)   3

   (4)   4

2

4. Jenson has a packet of 48 chocolates and a bottle of 36 sweets. What is the maximum number of friends he can share the treats with if each friend gets the same number of chocolates and sweets?

   (1) 6

   (2) 8

   (3) 12

   (4) 24   ( )

---

5. $2\dfrac{3}{7} = \dfrac{\boxed{}}{14}$

   What is the missing number in the box?

   (1) 6

   (2) 17

   (3) 31

   (4) 34   ( )

---

6. 1798 less than 4590 is _____.

   (1) 2792

   (2) 2808

   (3) 3208

   (4) 6388   ( )

7.
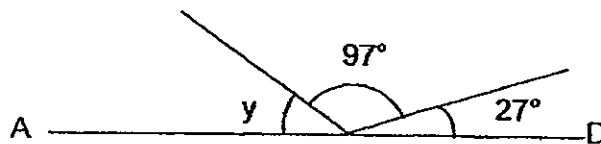
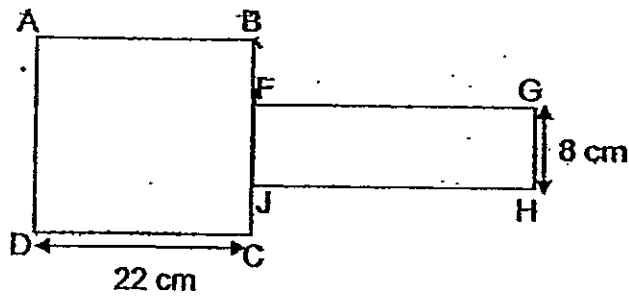AD is a straight line. Find $\angle y$.

   (1) 53°

   (2) 56°

   (3) 76°

   (4) 124°   ( )

8. The figure below is made up of a square ABCD and a rectangle FGHJ. BF = CJ. What is the length of BF?

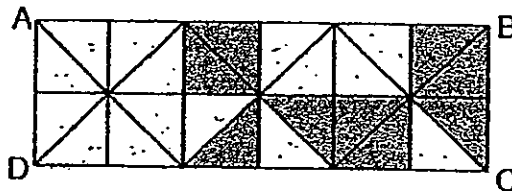(1) 5 cm

(2) 6 cm

(3) 7 cm

(4) 14 cm

(   )

---

9. Mr Lee has 11 shelves of books. If each shelf has 126 books, how many books does Mr Lee have?

(1) 1226

(2) 1286

(3) 1326

(4) 1386

(   )

---

10. ABCD is made up of identical triangles. What fraction of ABCD is unshaded?

(1) $\dfrac{3}{9}$

(2) $\dfrac{3}{8}$

(3) $\dfrac{5}{8}$

(4) $\dfrac{8}{9}$

(   )

11. Express your answer in its simplest form.

$$\frac{1}{4} + \frac{1}{2} + \frac{5}{6} = \text{_____}$$

(1) $\frac{7}{12}$

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

(3) $1\frac{7}{12}$

(4) $1\frac{3}{4}$ (   )

---

12. Gary bought some sweets and gave $\frac{2}{9}$ of the sweets to his sister. He then ate 16 sweets and gave the remaining 40 sweets to his friends. What fraction of the sweets did he give to his friends?

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

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

(3) $\frac{5}{9}$

(4) $\frac{7}{9}$ (   )

---

13. Mary has $\frac{1}{4}$ as many toy dolls as Nancy. If Nancy has 15 toy dolls more than Mary, how many toy dolls do they have altogether?

(1) 5
(2) 20
(3) 25
(4) 60   (   )

14. Francis bought 5 soccer balls and 2 volleyballs for $84. If each soccer ball costs twice as much as volleyball, how much did Francis pay for each volleyball?

    (1) $7
    (2) $12
    (3) $14
    (4) $42

    ( )

---

15. Mrs Ong had $2\frac{1}{2}$ kg of flour. She used $\frac{1}{5}$ kg of the flour to bake a cake and $1\frac{1}{2}$ kg of the flour to make doughnuts. How many kilograms of flour did Mrs Ong have left?

    (1) $\frac{2}{5}$ kg

    (2) $\frac{4}{5}$ kg

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

    (4) $4\frac{1}{5}$ kg   ( )

---

16. A shop sells a packet of chocolate bars for $12. Each packet contains 8 chocolate bars. Miss Ng wanted to give her class of 70 students a chocolate bar each. How much did Miss Ng spend on the chocolate bars?
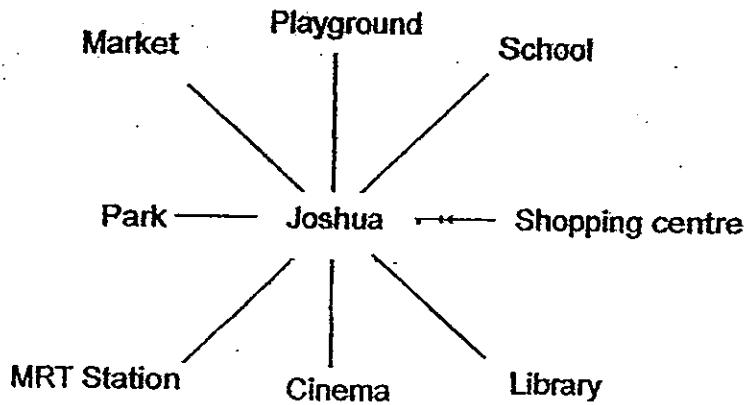
    (1) $70
    (2) $90
    (3) $108
    (4) $126

    ( )

17. Samuel scored 16 points more than Thomas in a basketball match. Thomas scored 7 points more than Jeremy in the same match. If the 3 boys scored a total of 81 points, how many points did Thomas score?

(1) 17

(2) 24

(3) 40

(4) 51

18.

Market   Playground   School

Park —— Joshua —⟶— Shopping centre

MRT Station   Cinema   Library

Joshua is facing the shopping centre. If he turns 135° in the clockwise direction, where will he face?
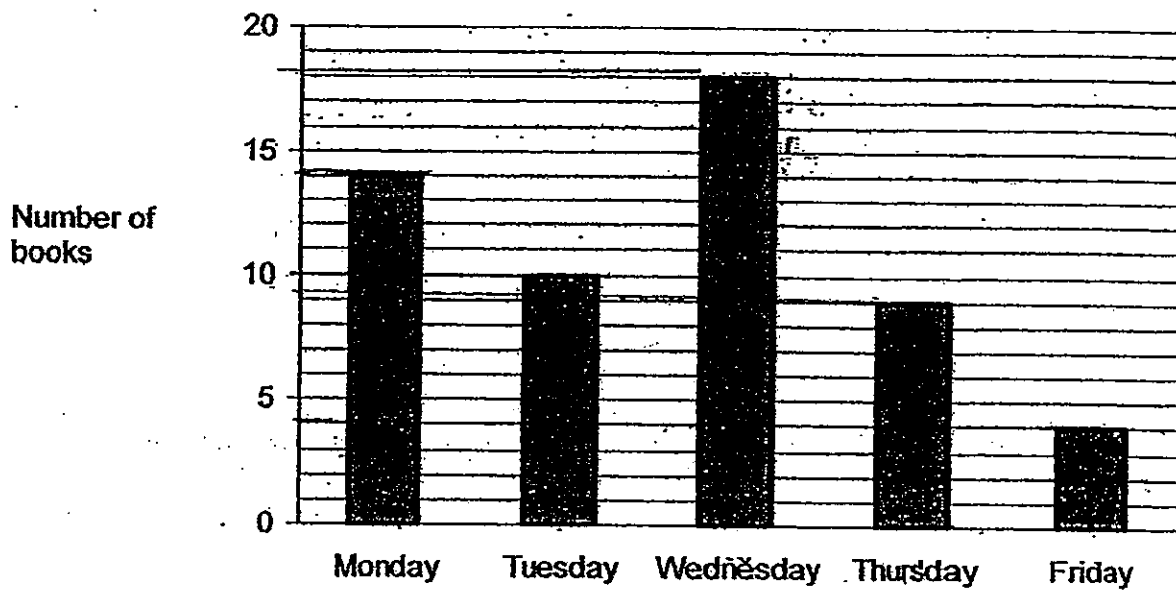
(1) Library

(2) Cinema

(3) Market

(4) MRT Station   (   )

19. The entrance fee to an amusement park ride is $15 per person. If there were 120 visitors each day on Monday and Tuesday, how much entrance fees was collected on both days?

(1) $105

(2) $1200

(3) $1800

(4) $3600   (   )

103

The bar graph below shows the number of books sold by a bookshop from Monday to Friday.

20. On how many days did the bookshop sell less than 10 books?

    (1)   1 day
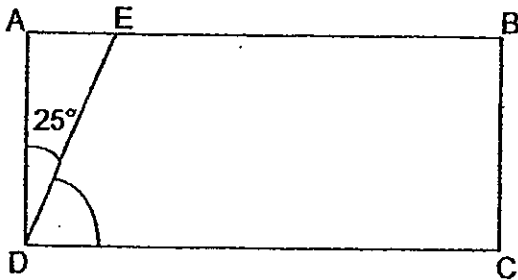
    (2)   2 days

    (3)   3 days

    (4)   4 days   (   )

Question 20 to 40 carries 2 marks each. Write your answer in the blank provided.

21. A number when rounded off to the nearest hundred is 3600. What is the largest possible value of this number?

Ans: _____

22. ABCD is a rectangle. Find $\angle EDC$.

Ans:_____ °

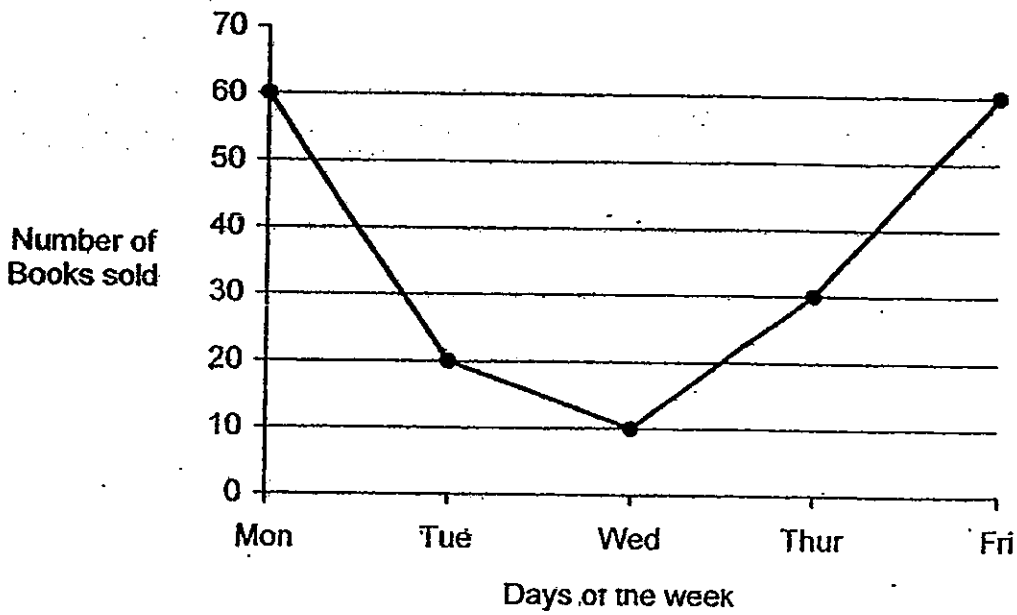23. Form the greatest odd number using the digits 2, 5, 1, 6.

Ans:_____

24. Arrange the following fractions in descending order:

$$\frac{2}{7}, \frac{2}{5}, \frac{1}{4}$$

Ans: _____, _____, _____

Study the graph below carefully and answer questions 25 and 26. The graph shows the number of books sold in a week.

Number of Books sold

Days of the week

25. What is the greatest increase in sale of books?

Ans:_____

---

26. Express the number of books sold on Monday as a fraction of the total number of books sold from Monday to Friday. Express the answer in the simplest form.

Ans:_____

27. Tony spent $\frac{3}{8}$ of his money on a pair of shoes and had $105 left. How much money did he have at first?
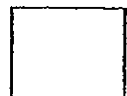
Ans:$_____

28. Box A has a mass of $\frac{2}{7}$ kg. The total mass of Box A and Box B is $\frac{4}{5}$ kg. How much heavier is Box B than Box A?

Ans:_____ kg

29. Janice packed 4817 fruit tarts into boxes. If 1 box contains 3 tarts, what is the minimum number of boxes she would need to pack all the tarts?

Ans:_____

11

30. Andy writes a string of letters in the following pattern:

A B B B C C A B B B C C

If the pattern continues and he writes a total of 65 letters, how many letter 'B's are there altogether?

Ans:_____

31. Melvin bought a cap, a jersey and a T-shirt. The jersey costs $15 more than the cap but $35 less than the T-shirt. If he paid $140, how much did the cap cost?

Ans:$_____

32. Joseph and Kelvin had an equal amount of money. After Joseph had spent $136, Kelvin had thrice as much money as Joseph. How much did each of them have at first?
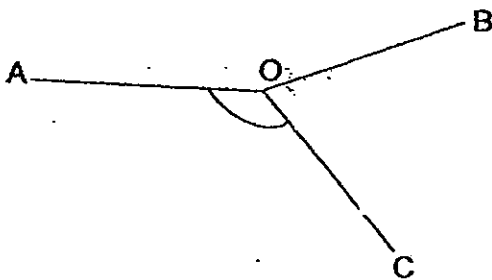
Ans:$_____

33. Tim had 81 marbles. He gave 14 marbles to Si Ling and some to Sean.
He had $\frac{1}{9}$ of the marbles left. How many marbles did Tim give Sean?
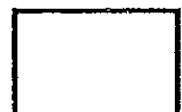
Ans:_____

34. AO, BO and CO are straight lines meeting at point O. $\angle AOB$ is equal to
$\angle AOC$. $\angle AOB$ is twice $\angle BOC$. What is the value of $\angle AOC$?

Ans:_____ °

35. When a number is divided by 6, it has a quotient of 85 and a remainder
of 2. What is the number?

Ans: _____

13

109

36. When Mrs Teo is 31 years old, her daughter is 7 years old. In how many years' time will she be thrice as old as her daughter?

Ans: _____

37. Michael had 224 stickers. He used some of the stickers and had $\frac{6}{7}$ of his stickers left. How many stickers did he use?

Ans: _____

38. 1 pen and 1 book cost $14. If the cost of 4 pens and 5 books is $62, how much is the cost of a book?

Ans:$ _____

14

39. There were 76 people at a swimming pool. $\frac{1}{4}$ of the people were adults. $\frac{1}{3}$ of the children were girls. How many girls were there at the swimming pool?

Ans:_____

40. At a concert, every 4th person receives a poster and every 6th person receives a CD. What is the position of the second person who receives both the items?

Ans:_____

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

41. Thomas bought some packets of sweets. Each packet of sweets cost $2. For every 2 packets of sweets he bought, he was given 1 free packet of sweets. If he has a total of 31 packets of sweets, how much did he spend in total?

Ans:_____[4]

42. John and Sam had an equal amount of money at first. After John gave away $148 and Sam spent $16, Sam has 4 times as much money as John. How much did each of them have at first?

Ans:_____[4]

43. Peter has 24 chocolates more than Gerald. After Peter gave away some chocolates and Gerald threw 20 chocolates away, Gerald will have thrice as many chocolates as Peter. If Peter had 197 chocolates at first, how many chocolates did Peter give away?

Ans:_____[4]

44. Alan had $\frac{1}{3}$ as many marbles as Charles. Ben had $\frac{5}{6}$ as many marbles as Charles. If Ben had 48 more marbles than Alan, how many marbles did the three boys have altogether?

Ans:_____[4]

45. The patterns below are made up of sticks of equal length.

Pattern 1   Pattern 2   Pattern 3

a) How many sticks will there be in pattern 5?
b) In which pattern number will there be a total of 81 sticks?

Ans:a)_____.____[2]

b)_____[2]

END OF PAPER.
Ha.. you checked your work?

ANSWER SHEET

EXAM PAPER 2012

SCHOOL : CATHOLIC HIGH PRIMARY SCHOOL
SUBJECT : Primary 4 - MATHS
TERM : SA 1

Paper 1

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

21	3649
22	65
23	6521
24	2/5, 2/7, 1/4
25	Friday
26	1/3
27	168
28	8/35
29	1606
30	33
31	25
32	204
33	58
34	144
35	512
36	5
37	32
38	6
39	19
40	24

41 $31 \div (2+1) = 10 \text{ r } 1$
$10 \times 2 + 1 = 21$
$21 \times \$2 = \$42$

42 $3u > 146 - 16 = 132$
$1u > 132 \div 3 = 44$

43 44 x 4 = 176
    176 + 16 = 192
    197 - 27 - 20 = 153
    153 ÷ 3 = 51
    51 x 2 = 102
    102 + 20 + 24 = 146
44 48 ÷ 3 = 16
    16 x 13 = 208
45a 21
45b 80 ÷ 4 = 20