Name : _____ (   )   10 May 2011

Class : P 5_____.

CATHOLIC HIGH SCHOOL

PRIMARY FIVE

MID-YEAR EXAMINATION 2011

MATHEMATICS

PAPER 1

(BOOKLET A)

15 questions

20 marks

Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

Follow all instructions carefully.

Shade your answers in the Optical Answer Sheet (OAS) provided.

You are **not** allowed to use a calculator.

Answer all questions.

65

Questions **1** to **10** carry 1 mark each. Questions **11** to **15** 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 correct oval on the Optical Answer Sheet. All diagrams are not drawn to scale. **(20 marks)**

1. Round off 685 793 to the nearest ten thousands.

    (1) 680 000
    (2) 685 800
    (3) 686 000
    (4) 690 000

2. What is the value of digit 7 in 457 821?

    (1) 7
    (2) 70
    (3) 700
    (4) 7000

3. Express $2\frac{3}{6}$ as a decimal.

    (1) 2.3
    (2) 2.5
    (3) 2.36
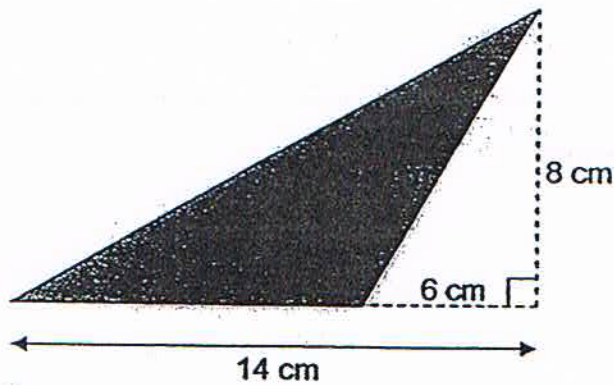   (4) 2.63

1

67

4. How many sixths are there in $3\frac{2}{3}$?

    (1)   4

    (2)   9

    (3)   11

    (4)   22

---

5. Which one of the following is nearest to 1?

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

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

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

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

---

6. Find the area of the shaded triangle.

    (1)   24 cm^2

    (2)   32 cm^2

    (3)   40cm^2

    (4)   56 cm^2

---

7. Orange syrup is mixed with water in the ratio of 1 : 3. How much orange syrup is needed if 15 litres of water is used?

   (1)   5 litres
   (2)   12 litres
   (3)   17 litres
   (4)   45 litres

8. Express 15 minutes as a fraction of 2 hours.

   (1) $\dfrac{1}{8}$

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

   (3) $\dfrac{2}{15}$

   (4) $\dfrac{3}{40}$

9. What is the missing number in the box?

   $$10 - \frac{3}{4} = \frac{\square}{8}$$

   (1)   14
   (2)   37
   (3)   43
   (4)   74

69

10. Mark had a roll of rope $4\frac{1}{8}$ m long. He cuts it into 9 equal pieces. What is the length of each piece of rope?

(1) $\frac{13}{72}$ m

(2) $\frac{5}{72}$ m

(3) $\frac{11}{24}$ m

(4) $\frac{1}{2}$ m

---

11. Joanne is 40 years old and her son is 13 years old now. How many years ago was she 4 times as old as her son?

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

---

12. Gabriel cuts a string in the ratio 5 : 4. He cuts the longer piece further into 2 pieces in the ratio of 2 : 1. What is the ratio of the shortest piece to the longest piece?
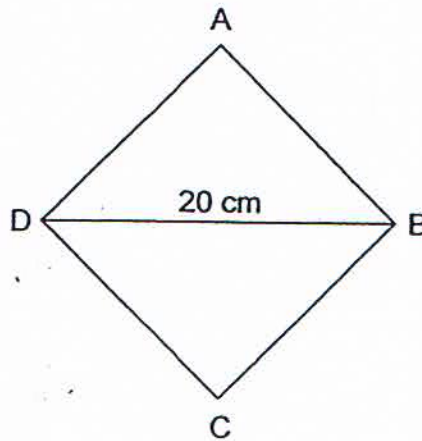
(1) 1 : 3
(2) 1 : 5
(3) 4 : 15
(4) 5 : 12

13. In the diagram below, ABCD is a square. DB = 20 cm. What is the area of the square?

(1) 100 cm²
(2) 200 cm²
(3) 300 cm²
(4) 400 cm²

14. There are 20 pages in Samuel's storybook. What is the total number of digits on all the page numbers?

(1) 19
(2) 20
(3) 29
(4) 31

15. The ratio of the number of red beads to green beads to yellow beads in a box is 2 : 4 : 5. If there are 126 red beads and green beads altogether, how many yellow beads are there?

(1) 28
(2) 72
(3) 105
(4) 3*5

Name : _____ (   )   10 May 2011

Class : P 5

CATHOLIC HIGH SCHOOL

PRIMARY FIVE

MID-YEAR EXAMINATION 2011

MATHEMATICS

PAPER 1

(BOOKLET B)

15 questions

20 marks

Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are **not** allowed to use a calculator.

Booklet A	
Booklet B	
Total	

73

Questions **16** to **25** carry 1 mark each. Write your answers in the space provided. For questions which require units, give your answers in the units stated.

(10 marks)

16. Write seven hundred and five thousand and sixty-four in figures.

Ans: _____

17. Find the value of 99 X 1001 – 99.

Ans: _____

18. Find the value of $\frac{5}{6} \neq \frac{1}{9}$
    Express your answer in its simplest form.

Ans: _____

19. Find the value of $\frac{2}{7} \div 8$.
    Express your answer as a fraction in its simplest form.
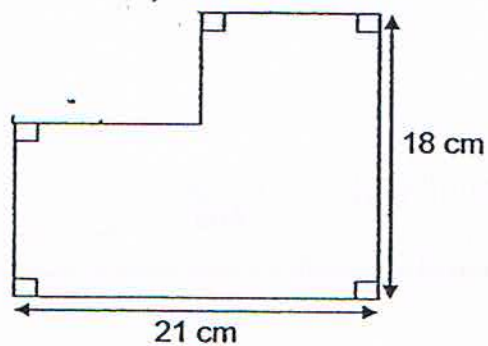
Ans: _____

6

75

20. Form the greatest even number with the four digits:

  8, 0, 1, 5

Ans:_____

21. Find the perimeter of the figure.

18 cm

21 cm

Ans: _____cm

22. Round off 12.49 to the nearest 1 decimal place.

Ans: _____
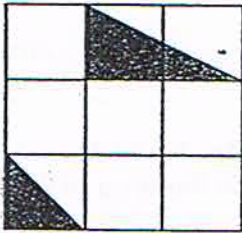
23. The diagram below shows a number line. Find the value of X.
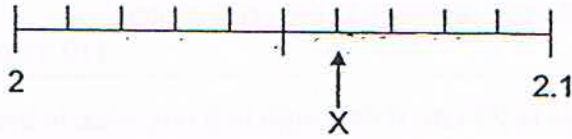
Ans: _____

24. The figure is made up of 9 identical squares. What fraction of the figure is shaded? Express your answer in its simplest form.
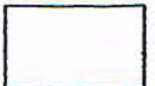

Ans: _____

25. In a car park, the ratio of the number of cars to the number of motorcycles to the number of lorries is 15 : 8 : 2. There are 72 fewer lorries than motorcycles. How many cars are there in the car park?

Ans: _____

Total marks for questions 16 to 25
(Go to the next page)

8

77

Questions **26** to **30** carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.
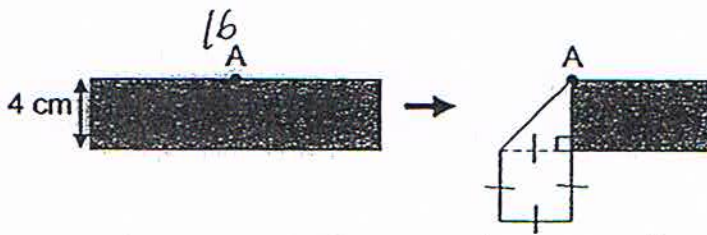
(10 marks)

26. The perimeter of a rectangle is 22 cm. If its length is 9 cm, what is the breadth of the rectangle?

Ans: _____ cm

27. A rectangular strip, 4 cm wide, is folded at point A in the figure below. Point A is at the mid-point of the length of the strip. What is the area of the rectangular strip before the fold?

Ans: _____ cm^2

28. Christian buys 50 oranges and 60 apples at $60. He can buy 100 oranges with the same amount of money. If he decides to buy only apples, how many apples can he buy?

Ans: _____

(Go on to the next page)

9

29. What is the value of 60 − 45 ÷ (21 − 16) X 6 ?

Ans: _____

30. $\frac{1}{7}$ of Matthew's allowance is the same as $\frac{3}{8}$ of Ryan's allowance. What is the ratio of Matthew's allowance to Ryan's allowance?

Ans: _____

End of Paper 1

10

79

Name : _____ ( )   10 May 2011

Class : P 5 _____

CATHOLIC HIGH SCHOOL

PRIMARY FIVE

MID-YEAR EXAMINATION 2011

MATHEMATICS

PAPER 2

Total Time: 1 h 40 min

Parent's Signature: _____

Paper 1 Booklet A	20
Paper 1 Booklet B	20
Paper 2	60
Total Marks	100

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are allowed to use a calculator.

81

Questions **1** to **5** carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided.
For questions which require units, give your answers in the units stated.
(10 marks)

1. Mrs Lim bought 8 kg of flour. She used $\frac{1}{4}$ of the flour to bake some cookies and $\frac{4}{7}$ kg of flour to bake a cake. How much flour did she use?

Ans: _____ kg

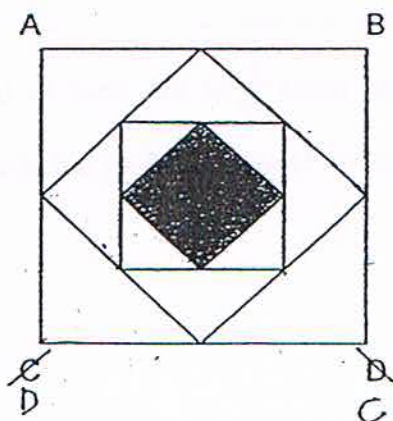2. ADBG is a square. ABC and DBE are straight lines. Find the sum of ∠DBF and ∠CBE.

Ans: _____ °

1

83
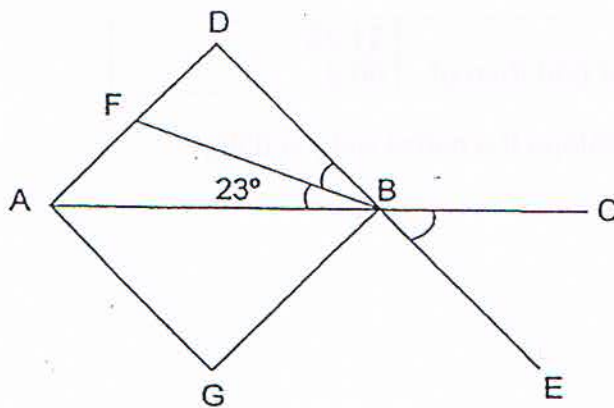
3. The figure below consists of 4 squares of different sizes. The corners of each square touch the sides of a bigger square at the mid-point. What fraction of ABCD is shaded? Express your answer in its simplest form.

A   B

C
D   D
                     C

Ans: _____

4. The table shows the postage rates by mass for delivery of a parcel.

For the first 500g	$1.25
Every additional 100g or part thereof	50 ¢

How much is the amount of postage if a parcel weighs 650g?

Ans: $_____

5. When the time is 0845 in Canberra, it would be 0545 in Singapore. Zachary boarded a plane and took off from Canberra at 0930. When it landed in Singapore, Zachary checked a clock at the airport and it showed 1345. How long was the flight?

Ans: _____ h _____ min

85

For questions **6** to **18**, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

6. At a football match, the ratio of the number of male spectators to the number of female spectators was 5 : 3. It became 3 : 1 after 300 female spectators left the match. How many more male than female spectators were there at first?

Ans: _____ [3]

7. There were 269 lampposts along a straight road. The distance between every 2 lampposts was 6 m. Find the distance between the first lamppost and the last lamppost.

Ans: _____ [3]

(Go on to the next page)

4

8. Egg tarts are sold in box of 3 while fruit tarts are sold in box of 6. Zachary bought several boxes of egg tarts and fruit tarts as gifts for his relatives. $\frac{3}{5}$ of the boxes contained egg tarts. What is the ratio of the number of egg tarts to the number of fruit tarts? Express your answer in its simplest form.

Ans: _____ [3]

9. Library A has $\frac{3}{5}$ as many books as Library B. When 3500 books were transferred from Library A to Library B, it had $\frac{1}{5}$ as many books as Library B. What was the total number of books in the two libraries?

Ans: _____ [3]

(Go on to the next page)

10. A group of children shared some candy canes at a party. If each child was given 1 candy cane, 80 candy canes would be left. If each child was given 4 candy canes, 8 candy canes would be left. How many children were at the party?

Ans: _____ [3]

(Go on to the next page)

6

11. Ivan cuts a string measuring 224 cm long into 3 pieces of different length. If the length of the first piece is tripled, the second piece is halved, and the third piece is increased by 36 cm, they will be equal in length. What will be the length of the third piece?

Ans: _____ [4]

89

12. The figure below consists of 3 rectangles ABCD, EBFG and OPQR. The ratio of the area of rectangle ABCD to the area of rectangle EBFG to the area of rectangle OPQR is $3 : 2 : 1$.

If $\frac{1}{4}$ of OPQR is shaded, what fraction of the whole figure is **not** shaded?

Ans : _____ [4]

13. Doris kept some sweets and chocolates in a container. The ratio of the number of sweets to the number of chocolates is 7 : 6. After 45 sweets and 45 chocolates were taken from the container, the ratio of the number of sweets to the number of chocolates became 11 : 9. Doris put in another 20 chocolates into the container. How many chocolates were there in the container in the end?

Ans : _____ [4]

91

14. Tristan, Joe and Caspian shared the cost of a computer game console.

Tristan's share is $\frac{3}{4}$ of Joe's share.

Joe's share is $\frac{5}{6}$ of Caspian's share.

The difference between the biggest and the smallest share was $72.
Find the cost of the computer game console.

Ans: _____ [4]

15. At a café, there were thrice as many curry puffs as beef pies. After 100 curry puffs and 20 beef pies were sold, there were twice as many beef pies as curry puffs left. How many curry puffs were there at first?

Ans: _____ [4]

93

16. Mrs Tan bought tickets to the Universal Studio. An adult ticket costs $66 while a child ticket costs $48. A senior ticket costs $32. The ratio of the number of adult tickets to the number of child tickets to the number of senior tickets is 3 : 5 : 2.
    a) Given that she paid a total of $1048 for the adult tickets and the senior tickets, how many child tickets did she buy?
    b) How much more had she spent on child tickets than senior tickets?

Ans: a) _____ [3]

      b) _____ [2]
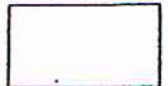
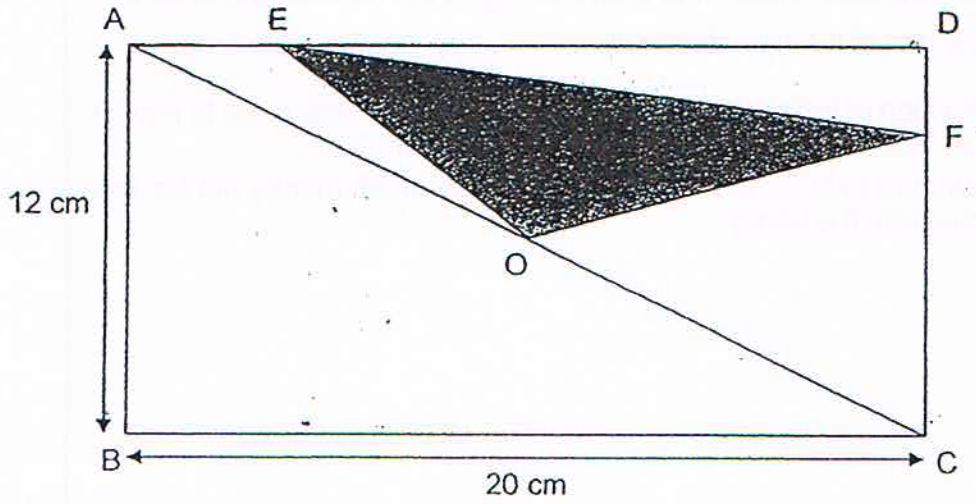17. The figure below shows a rectangle ABCD with O as its centre. BC = 20 cm and AB = 12 cm. Given that AE : ED is 1 : 4 and DF : FC is 1 : 3, find the area of the triangle EFO.

A   E   D

12 cm   F

O

B   20 cm   C

Ans: _____ [5]

18. Mr Tan withdrew a sum of money from the bank. He used $\frac{1}{5}$ of the money to buy a refrigerator and $\frac{1}{3}$ of the remaining money to buy a television set at an electrical appliance shop. He then used $\frac{3}{8}$ of the remaining money to pay for a car tyre at a repair shop.

a) What fraction of the money withdrawn from the bank was used to pay for the tyre? Express your answer in the simplest form.

b) If the amount paid for the tyre was $350, how much money did Mr Tan withdraw from the bank?

Ans: a) _____ [3]

b) _____ [2]
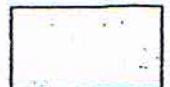
End of Paper 2

ANSWER SHEET

EXAM PAPER 2011

SCHOOL : CATHOLIC HIGH
SUBJECT : PRIMARY 5 MATHEAMATICS

TERM : SA1

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

16)705064   17)99000   18)17/18   19)1/28   20)8510

21)78   22)12.5   23)2.06   24)3/18   25)180

26)2   27)64   28)120   29)6   30)21 : 8

Paper 2

1) ¼ x 8/1 = 2
   2 + 4/7 = 2₄/₇kg

2) 45 − 23 = 22
   45 + 22 = 67°

3) 1/8

4) $1.25 = 50c + 50c = $2.25

5) 0845 − 0545 = 3h
   0930 − 3h = 0630
   1345 − 0630 = 7h 15min

6) M : F   3 : 1
   5 : 3   x5   x5
   X3   x3   15 : 5
   15 : 9
   9 − 5 = 4
   4u = 300
   1u→300÷4 = 75
   6u = 75 x 6 = 450

7) 269 − 1 = 268
   268 x 6m = 1608m

8) Egg :   Fruit
   3 :   2
   X3   x6
   9 :   12 = 3 : 4

9) A : B
   3 : 5   = 8
   x3   x3   x3
   9 : 15   24

   1 : 5   = 6
   x4   x4   x4
   4 : 20   24
   9 − 4 = 5
   5u = 3500
   1u = 3500÷5 = 700
   24u = 24 x 700 = 16800

10) 80 − 8 = 72
    4 − 1 = 3
    72÷3 = 24

97END.

11) 10u = 224 + 36 = 260
1u = 260 ÷ 10 = 26
3u = 36 x 3 = 78
78 − 36 = 42cm

12) 3 : 2 : 1
=12 : 8 : 4
$\frac{4+7+3}{12+3}$ = $\frac{14}{15}$

13) Before   After
    7 : 6   11 : 9
= 14 : 12

14u − 11u = 3u
3u → 45
1u → 45 ÷ 3 = 15
9u = 15 x 9 = 135
135 + 20 = 155

14) T : J   J : C
    3 : 4   5 : 6
   $\underline{x5 \quad x5}$ $\underline{x4 \quad x4}$
   15 : 20   20 : 24

24 − 15 = 9
15 + 20 + 24 = 59
9u = $72
1u = $72 ÷ 9 = $8
59u = 59 x $8 = $472

15) 108

16) a) 20
    b) $704

17) 39cm²

18) a) 1/5
    b) $1750

98

End