



**CATHOLIC HIGH SCHOOL**  
**PRIMARY FIVE**  
**MID - YEAR EXAMINATION 2012**  
**MATHEMATICS**  
**PAPER 1**  
**(BOOKLET A)**

Name : \_\_\_\_\_ (      )

Class: Primary 5 \_\_\_\_\_

Date: 11 May 2012

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.

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)

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1. In 1 342 056, which digit is in the ten thousands place?

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

2. What is the quotient when 3150 is divided by 50?

- (1) 61
  - (2) 63
  - (3) 610
  - (4) 630
- 

3. Round off 56 789 to the nearest hundreds.

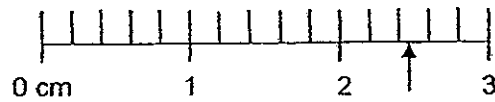
- (1) 56 000
  - (2) 56 700
  - (3) 56 800
  - (4) 57 000
- 

4. What is the sum of 3 hundreds, 50 tenths and 2 hundredths?

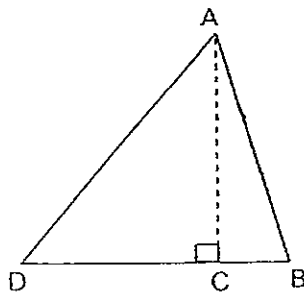
- (1) 300.052
  - (2) 300.520
  - (3) 305.020
  - (4) 305.200
- 

(Go on to the next page)

5. The following figure shows part of a measuring scale. Which of the following is closest to the reading indicated by the arrow?



- (1) 2.25  
(2) 2.31  
(3) 2.48  
(4) 2.60
- 
6. Given that AC is the height of the triangle ABD, find the base of the triangle ABD.

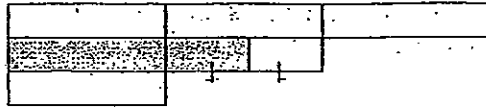


- (1) DB  
(2) DC  
(3) AD  
(4) AB

---

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7. The following figure is made up of 6 identical rectangles. Find the ratio of the shaded area to the total area of the figure.



- (1) 1 : 6  
(2) 1 : 4  
(3) 1 : 3  
(4) 3 : 4
- 
8. A sum of money is shared between Julie and Keith in the ratio 3 : 7. If Julie receives \$42, how much does Keith receive?
- (1) \$18  
(2) \$24  
(3) \$56  
(4) \$98
- 
9. There were 40 children and 200 adults at a concert. What fraction of the people were adults?
- (1)  $\frac{1}{5}$   
(2)  $\frac{2}{3}$   
(3)  $\frac{1}{6}$   
(4)  $\frac{5}{6}$

(Go on to the next page)

10. Aaron has twice as many sweets as Bernard. Carol has thrice as many sweets as Aaron. What is the ratio of the number of sweets Carol has to the total number of sweets Bernard and Aaron have?

- (1) 1 : 2
  - (2) 2 : 3
  - (3) 3 : 4
  - (4) 2 : 1
- 

11. Darren had 4 times as many pencils as rulers at first. After losing 18 pencils and buying 9 more rulers, he had an equal number of pencils and rulers. How many pencils had he at first?

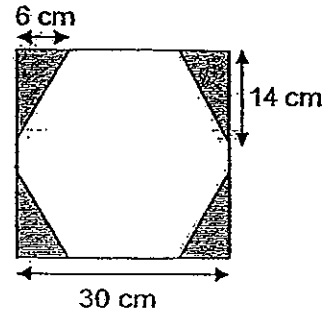
- (1) 9
  - (2) 13
  - (3) 18
  - (4) 36
- 

12. Mrs Lim baked some pies over the weekend. She gave  $\frac{1}{4}$  of the pies to her relatives and  $\frac{1}{6}$  of the remainder to her neighbours. What fraction of the pies she baked was left?

- (1)  $\frac{1}{8}$
  - (2)  $\frac{5}{6}$
  - (3)  $\frac{5}{8}$
  - (4)  $\frac{5}{24}$
- 

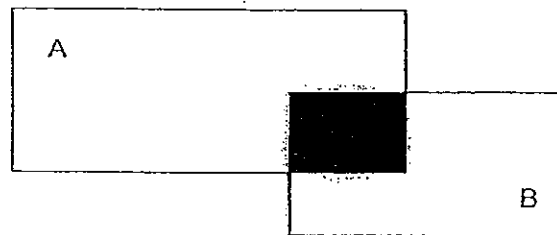
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13. A triangle of height 14 cm and base 6 cm is cut from each of the four corners of a square. The length of the square is 30 cm. What is the area of the remaining figure?



- (1)  $564 \text{ cm}^2$   
 (2)  $732 \text{ cm}^2$   
 (3)  $816 \text{ cm}^2$   
 (4)  $856 \text{ cm}^2$
- 
14. Mrs Lee goes to a supermarket to buy some cup noodles. At the supermarket, the cup noodles are sold for 3 for \$5. What is the maximum number of cup noodles she can buy if she has \$39?
- (1) 7  
 (2) 13  
 (3) 21  
 (4) 24

15. The figure below shows two rectangles, A and B.  $\frac{1}{5}$  of rectangle A and  $\frac{2}{5}$  of rectangle B is shaded. What fraction of the figure is not shaded?



- (1)  $\frac{15}{17}$   
 (2)  $\frac{11}{13}$   
 (3)  $\frac{11}{15}$   
 (4)  $\frac{4}{13}$

(Go on to Booklet B)

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. All figures are not drawn to scale. (10 marks)

Do not write in this space

16. Express three hundred and fifteen thousand, nine hundred and two in numerals.

Ans: \_\_\_\_\_

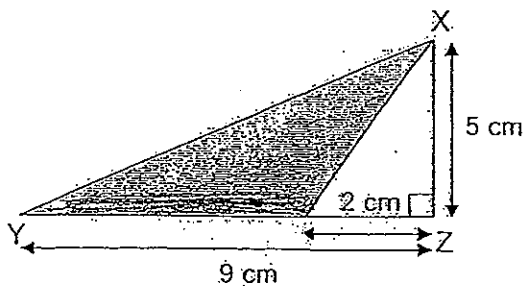
17. What is the value of  $50 - 6 \div 3 + (21 - 13) \times 2$ ?

Ans: \_\_\_\_\_

18. How many sixths are there in  $5\frac{2}{3}$ ?

Ans: \_\_\_\_\_

19. Find the shaded area of triangle XYZ.



Ans: \_\_\_\_\_ cm<sup>2</sup>

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CATHOLIC HIGH SCHOOL

PRIMARY FIVE

MID - YEAR EXAMINATION 2012

MATHEMATICS

PAPER 1

(BOOKLET B)

Name : \_\_\_\_\_ (      )

Class: Primary 5 \_\_\_\_\_

Date: 11 May 2012

Booklet A	20
Booklet B	20
Total	40

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.

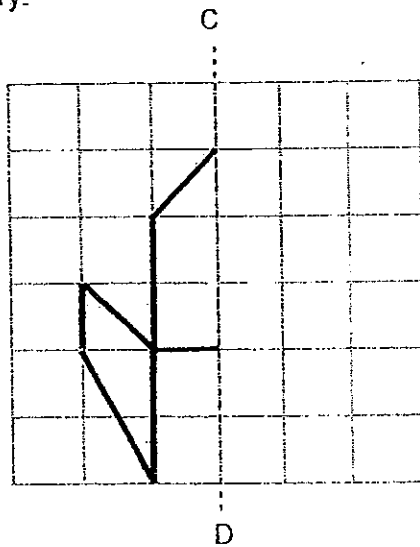


20. A piece of rope 5 m 6 cm long is cut into 8 equal smaller pieces. What is the length of each smaller piece?

Do not write in this space

Ans: \_\_\_\_\_ cm

21. Complete the following figure below such that the line CD becomes the line of symmetry.



22. Find the number in the blank.

Ans: \_\_\_\_\_

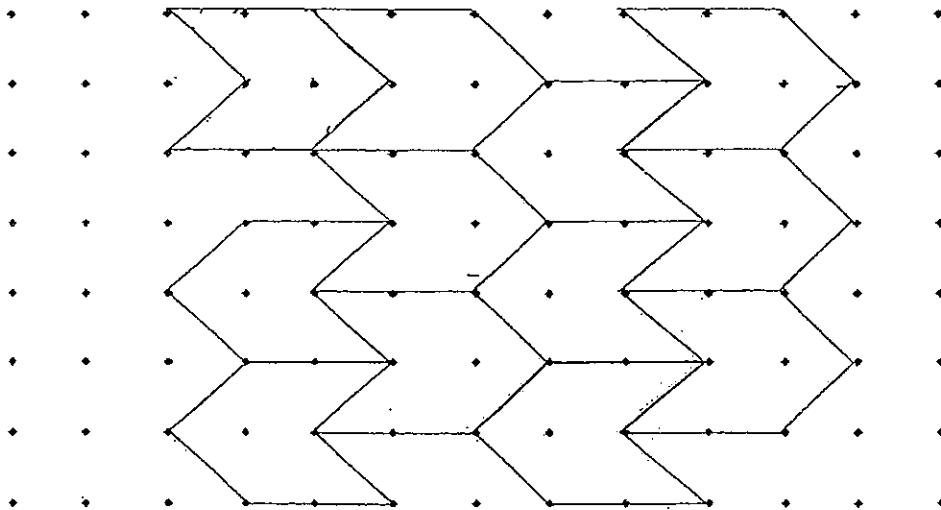
(Go to the next page)

23. The age of 3 boys are in the ratio of 2 : 1 : 5. If the youngest boy is 8 years younger than the oldest boy, find the total age of the 3 boys.

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in this spac

Ans: \_\_\_\_\_ years old

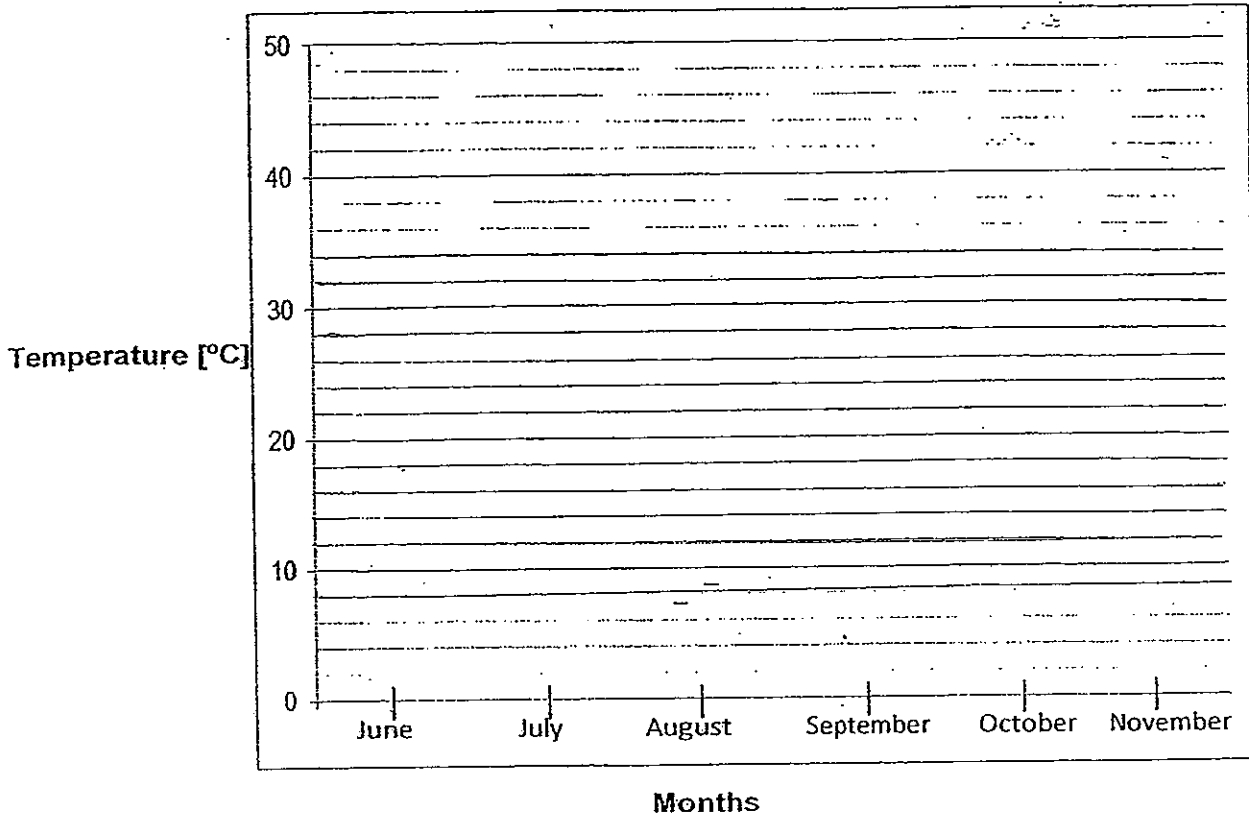
24. The pattern in the box shows part of a tessellation. Shade the unit shape that is not part of the tessellation.



(Go to the next page)

25. The line graph below shows the temperature change from June to November.

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What is the greatest decrease in temperature from June to November?

Ans. \_\_\_\_\_ °C



Total marks for questions 16 to 25

(Go to the next page)

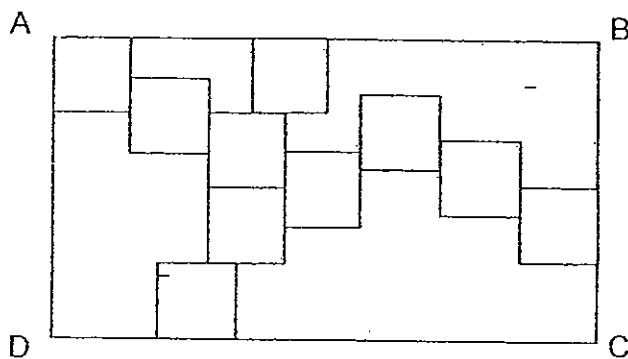
Questions 26 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All figures are not drawn to scale. (10 marks)

Do not write in this space

26. At a party, a total of 540 sweets and stickers were distributed to some children. Each child received 8 sweets and 4 stickers. How many sweets were distributed?

Ans: \_\_\_\_\_

27. In the figure below, 10 identical square tiles measuring 5 cm by 5 cm lie within the rectangle ABCD. If each square tile is parallel to the length and breadth of the rectangle ABCD, find the area of the rectangle ABCD.



Ans: \_\_\_\_\_ cm<sup>2</sup>

(Go to the next page)

28. The parking charges at Mr. Lee's office are as follows:

8 a.m. to 6 p.m.	\$0.50 per hour
After 6 p.m.	\$3.00 per entry

Do not  
in this s

Mr. Lee parked his car from 8 a.m. to 7 p.m. on Monday. How much was Mr. Lee's parking charges for that day?

Ans: \$ \_\_\_\_\_

29. Gerald is 5 years old. His mother is 33 years old. In how many years' time will his mother be thrice as old as he?

Ans: \_\_\_\_\_ years

(Go to the next page)

30. The cost of 2 books and 3 magazines is \$44. The cost of 4 books and 3 magazines is \$76. What is the cost of a magazine?

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Ans: \$ \_\_\_\_\_

End of Paper 1



**CATHOLIC HIGH SCHOOL**

**PRIMARY FIVE**

**MID - YEAR EXAMINATION 2012**

**MATHEMATICS**

**PAPER 2**

Name : \_\_\_\_\_ (       )

Class: Primary 5 \_\_\_\_\_

Date: 11 May 2012

Duration: 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.

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. All figures are not drawn to scale. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

1. Express  $\frac{5}{9}$  as a decimal. Leave your answer in 2 decimal places.

Ans: \_\_\_\_\_

2. Randy poured 7 l of milk equally into 3 containers. Find the total amount of milk in 2 containers. (Leave your answer in the simplest term.)

Ans: \_\_\_\_\_

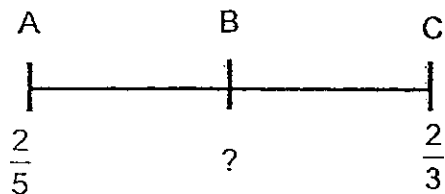
3. Jane bought 25 m of cloth. She used  $\frac{1}{5}$  of it to make some shirts and  $12\frac{2}{3}$  m to make a dress. How much cloth was left?

Ans: \_\_\_\_\_ m

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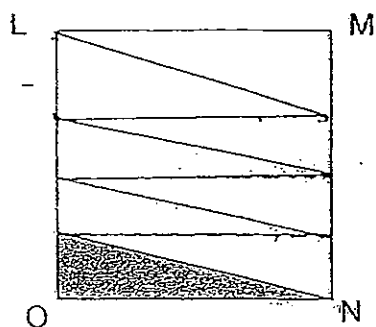
4. In the number line below, the value of A is  $\frac{2}{5}$  while the value of C is  $\frac{2}{3}$ .  
B is the midpoint between A and C. Find the value of B.



Ans: \_\_\_\_\_

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in this-

5. In the figure below LMNO is a square. The length of LM is 4 times the length of PO. What fraction of LMNO is shaded?



Ans: \_\_\_\_\_

(Go to the next page)

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All figures are not drawn to scale. The number of marks available is shown in brackets [ ] at the end of each question or part-question (50 marks)

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6. Jamie and Oliver shared the total cost of a gift. Jamie paid \$12 more than  $\frac{2}{5}$  of the cost of the gift. Oliver paid \$15. How much did the gift cost?

Ans: \_\_\_\_\_ [3]

7. The ratio of Gary's allowance to Eric's allowance is 3 : 1. The ratio of Alex's allowance to Gary's allowance is 5 : 2. If Alex has \$52 more than Eric, find the total allowance of the three boys.

Ans: \_\_\_\_\_ [3]

(Go to the next page)

8. Robert wanted to buy 12 erasers but he found that he was short of \$0.80. If he bought 8 erasers, he would have \$1.60 left over. How much money did Robert have?

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Ans: \_\_\_\_\_ [3]

9. There were  $\frac{3}{4}$  as many students in Camp A than in Camp B. After 25 pupils joined Camp B, the ratio of the number of students in Camp B to Camp A becomes 7 : 4. Find the number of students in Camp B at first.

Ans: \_\_\_\_\_ [3]

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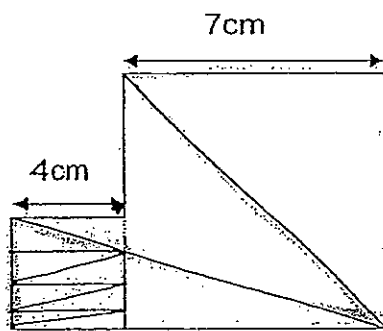


10. Calvin had 24 stamps less than Ben. After Calvin gave away  $\frac{2}{5}$  of his stamps and Ben lost  $\frac{2}{3}$  of his stamps, they were left with the same number of stamps each. Find the number of stamps both boys had at first.

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Ans: \_\_\_\_\_ [3]

11. The following figure is made up of two squares of different sizes. Find the shaded area.



Ans: \_\_\_\_\_ [3]

(Go to the next page)

12. Peter attempted 80 questions in a quiz and scored 302 marks. Given that 5 marks were awarded for each correct answer but 2 marks were deducted for each wrong answer, how many questions did Peter answer correctly?

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Ans: \_\_\_\_\_ [4]

13. <sup>L</sup>ukas and Justin share a sum of money. Lukas had \$50 more than Justin. Lukas gave \$84 to Justin and Justin had thrice as much money as Lukas. When Mother gave Justin some money, the amount of money Justin had in the end became \$200. How much money did Mother give Justin?

Ans: \_\_\_\_\_ [4]

(Go to the next page)

14. Mr. Yong gave \$840 of his salary to his mother and gave  $\frac{1}{5}$  of his remaining salary to his wife. If he had  $\frac{1}{3}$  of his salary left, how much was his salary?

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Ans: \_\_\_\_\_ [4]



(Go to the next page)

15. Ani's pet shop had a total of 255 dogs and rabbits. He sold  $\frac{1}{3}$  of the dogs and bought another 50 rabbits. In the end, there was an equal number of dogs and rabbits in the shop. How many more dogs than rabbits were there in the shop at first?

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Ans: \_\_\_\_\_ [5]



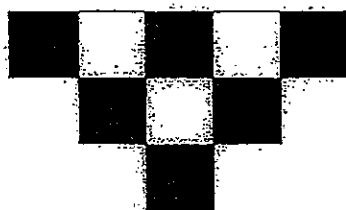
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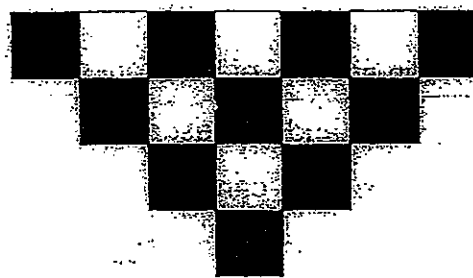
16. Black and white squares are used to form a sequence of patterns. The first three patterns are shown below.



Pattern 1



Pattern 2



Pattern 3

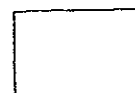
Pattern Number	Black squares	White squares
1	3	1
2	6	3
3	10	6
4	(a)	10

[1]

- (a) Fill in the number of black squares for pattern number 4 in the table provided above.  
 (b) Find the number of white squares in pattern number 9.  
 (c) In which pattern number will there be a total of 196 squares?

Ans: b) \_\_\_\_\_ [2]

Ans: c) \_\_\_\_\_ [2]



(Go to the next page)

17. Gin spent  $\frac{2}{3}$  of her money on some candies and  $\frac{3}{5}$  of her remaining money on drinks and the rest of her money on 2 pies. If each piece of pie cost thrice as much as a candy and she gave away  $\frac{1}{3}$  of the candies to her brother, how many candies was she left with?

Do  
in th

Ans: \_\_\_\_\_ [5]



(Go to the next page)

18. Edmund sold cups and bowls for parties. The ratio of the price of a cup to the price of a bowl is 2 : 3. The price of the cup was \$0.50 less than the price of the bowl.

In January, Edmund sold  $\frac{3}{5}$  of the items and collected \$297 from the sales.

$\frac{1}{4}$  of the items sold in January were cups. Find the total number of items left after January.

Do not write in this space

Ans: \_\_\_\_\_ [5]



- End of Paper 2 -





# ExamSutra 考试圣经

## Answer Sheets

**EXAM PAPER 2012**

**SCHOOL : CATHOLIC HIGH**  
**SUBJECT : PRIMARY 5 MATHEMATICS**

**TERM : SA1**

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

16) 315902

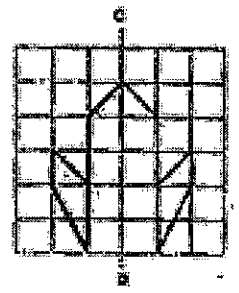
17) 64

18) 34

19) 17.5cm<sup>2</sup>

20) 63.25

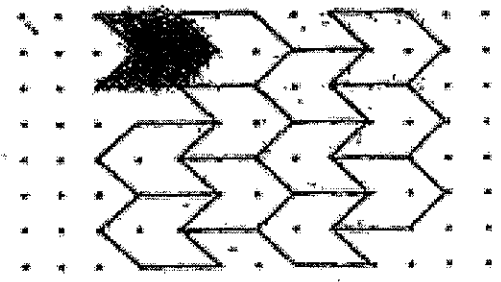
21)



22) 15

23) 16

24)



25) 20°C

26) 360

27) 700cm<sup>2</sup>

28) \$8

29) 9

30) \$4

Paper 2

1) 0.56

2)  $7 \div 3 = 7/3$

$7/3 \times 2/1 = 14/3$   
 $= 4\frac{2}{3}L$

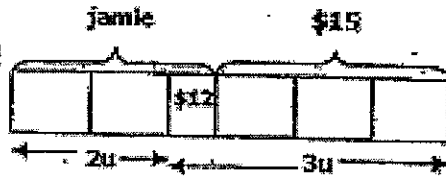
3)  $1/5 \times 25/1 = 5/1$

$25 - 12\frac{2}{3} - 5 = 7\frac{1}{3}L$

4)  $8/15$

5)  $1/8$

6)



$3u \rightarrow \$15 + \$12 = \$27$

$1u \rightarrow \$27 \div 3 = \$9$

$5u \rightarrow \$9 \times 5 = \$45$

7) A G E

3u 1u

$\begin{array}{r} \times 5u \quad 2u \quad \times 2 \\ \hline 15 : 6 : 2 \end{array}$

$13u \rightarrow \$52$

$1u \rightarrow \$52 \div 13 = \$4$

Total allowance  $\rightarrow 15u + 6u + 2u = 23u$

Total allowance  $\rightarrow 23 \times \$4 = \$92$

8)  $12 - 8 = 4$

$4u \rightarrow \$0.80 + \$1.60 = \$2.40$

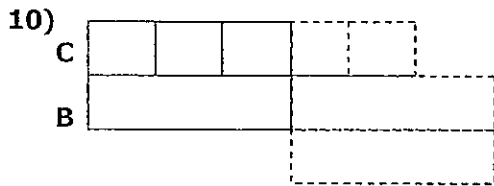
$1u \rightarrow \$2.40 \div 4 = \$0.60$

Robert's money  $\rightarrow \$0.60 \times 8 + \$1.60 = \$6.40$

9)  $5u \rightarrow 25$

$1u \rightarrow 25 \div 5 = 5$

$16u \rightarrow 16 \times 5 = 80$



$$4u \rightarrow 24$$

$$1u \rightarrow 24 \div 4 = 6$$

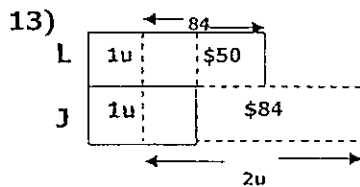
$$14u \rightarrow 6 \times 14 = 84$$

- 11) Area of A  $\rightarrow \frac{1}{2} \times 4 \times 11 = 22$   
 Area of B  $\rightarrow \frac{1}{2} \times 7 \times 7 = 24.5$   
 Area of figure  $\rightarrow (4 \times 4) + (7 \times 7) = 65$   
 Area of shaded  $\rightarrow 65 - 22 - 24.5 = 18.5 \text{ cm}^2$

12)

✓	X	Total
$70 \times 5 = 350$	$10 \times 2 = 20$	330
$65 \times 5 = 325$	$15 \times 2 = 30$	295
$67 \times 5 = 335$	$13 \times 2 = 26$	309
$66 \times 5 = 330$	$14 \times 2 = 28$	302

Ans: 66



$$84 - 50 = 34$$

$$34 + 84 = 2u = 118$$

$$1u \rightarrow 118 \div 2 = 59$$

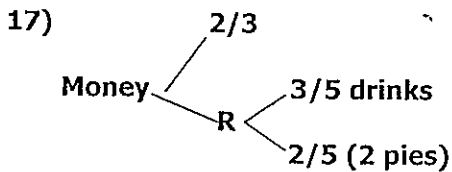
$$3u \rightarrow 59 \times 3 = 117$$

$$200 - 117 = \$23$$

14)  $1/3 \div 4 = 1/3 \times 1/4 = 1/12$   
 $1/12 \times 5/1 = 5/12$   
 $1/12$  of salary  $\rightarrow \$840 \div 7 = \$120$   
 $12/12$  of salary  $\rightarrow \$120 \times 12 = \$1440$

15)  $5u \rightarrow 255 + 50 = 305$   
 $1u \rightarrow 305 \div 5 = 61$   
 More  $\rightarrow 61 + 50 = 111$

16) a) 15  
 b)  $1+2+3+4+5+6+7+8+9 = 45$   
 c)  $\sqrt{196} = 14$   
 $14 - 1 = 13$



$2/5 \times 1/3 = 2/15$   
 $2/3 = 10/15$   
 Candy  $\rightarrow 10 \times 3 = 30$   
 Candy  $\rightarrow 2/3 \times 30/1 = 20/1 = 20$   
 Left

18) price of cup  $\rightarrow \$0.50 \times 2 = \$1$   
 Price of bowl  $\rightarrow \$0.50 \times 3 = \$1.50$   
 1 group  $\rightarrow \$1 + 9(\$1.50 \times 3) = \$5.50$   
 Group  $\rightarrow \$297 \div \$5.50 = 54$   
 Item sold  $\rightarrow 54 \times 4 = 216$   
 $1/6$  of item  $\rightarrow 216 \div 3 = 72$   
 $2/5$  of item  $\rightarrow 72 \times 2 = 144$