

Name: _____ ()

22 October 2013

Class: P 5. _____



CATHOLIC HIGH SCHOOL

END-OF-YEAR EXAMINATION 2013

MATHEMATICS

PRIMARY 5

PAPER 1

(BOOKLET A)

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.

Answer all questions.

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

The use of calculators is **NOT** allowed.

This booklet consists of printed pages 1 to 5.

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 6789 to the nearest hundred.

- (1) 6700
 - (2) 6790
 - (3) 6800
 - (4) 7000
-

2. In 86.75, what does the digit 7 stand for?

- (1) 7 ones
 - (2) 7 tens
 - (3) 7 tenths
 - (4) 7 hundredths
-

3. Express 15 g as a fraction of 750 g.

- (1) $\frac{1}{5}$
 - (2) $\frac{1}{50}$
 - (3) $\frac{1}{75}$
 - (4) $\frac{3}{10}$
-

(Go on to the next page)

4. $\frac{2}{3} \div 12$ is the same as _____.

(1) $\frac{3}{2} \times \frac{12}{1}$

(2) $\frac{3}{2} \times \frac{1}{12}$

(3) $\frac{2}{3} \times \frac{1}{12}$

(4) $\frac{2}{3} \times \frac{12}{1}$

5. The mass of 3 bags of coffee powder is 32 kg, 15 kg and 10 kg.
Find the average mass of 1 bag of coffee powder.

(1) 19 kg

(2) 28.5 kg

(3) 57 kg

(4) 171 kg

6. Express 5050 cm in metres.

(1) 0.505 m

(2) 5.05 m

(3) 50.5 m

(4) 505 m

7. Alvin bought 5 kg of flour. He used 0.35 kg of flour to make one loaf of bread. How much flour had Alvin left after he made 6 such loaves of bread?

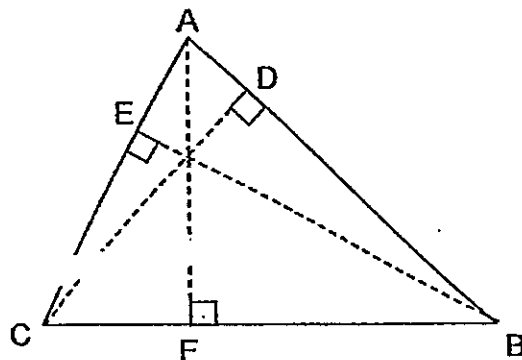
(1) 2.10 kg

(2) 2.90 kg

(3) 3.10 kg

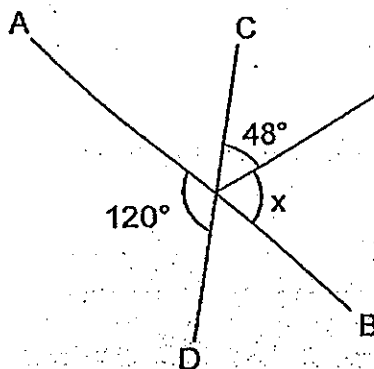
(4) 4.65 kg

8. Identify the base of triangle ABC, given that CD is the height.



- (1) AB
- (2) AC
- (3) CB
- (4) AF

9. In the figure below, AB and CD are straight lines. Find $\angle x$.



- (1) 64°
- (2) 66°
- (3) 72°
- (4) 88°

(Go on to the next page)

10. Express 3 tons, 5 tenths and 49 thousandths as a decimal.

- (1) 3.549
 - (2) 30.99
 - (3) 35.049
 - (4) 30.549
-

11. Julian answered 36 out of 40 questions correctly. What percentage of the questions was answered incorrectly?

- (1) 10%
 - (2) 90%
 - (3) 36%
 - (4) 4%
-

12. The ratio of the amount of money Alan has to the amount of money Brenda has is 3 : 5. The ratio of the amount of money Brenda has to the amount of money Chris has is 2 : 1. Find the ratio of the amount of money Alan has to the amount of money Chris has.

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

(Go on to the next page)

13. Audrey bought 20 m of cloth. She used $\frac{1}{5}$ of it to make some streamers and $4\frac{1}{2}$ m to make a tablecloth. How much cloth was she left with?

- (1) $11\frac{1}{2}$ m
 - (2) $12\frac{1}{2}$ m
 - (3) $15\frac{3}{10}$ m
 - (4) $15\frac{1}{2}$ m
-

14. The area of a plot of garden is 2730 m². 10% of it is taken up to grow roses and another 20% of it is used to grow sunflowers. What is the area of the remaining plot of land?

- (1) 819 m²
 - (2) 1911 m²
 - (3) 3900 m²
 - (4) 9100 m²
-

15. $\frac{1}{3}$ of the number of Sam's stickers is the same as $\frac{3}{5}$ of the number of Joshua's stickers. Express the number of stickers Joshua has as a fraction of the total number of stickers both boys have.

- (1) $\frac{3}{8}$
 - (2) $\frac{5}{9}$
 - (3) $\frac{3}{14}$
 - (4) $\frac{5}{14}$
-

END OF BOOKLET A

Name: _____ ()

22 October 2013

Class: P 5 _____



CATHOLIC HIGH SCHOOL
END-OF-YEAR EXAMINATION 2013

MATHEMATICS

PRIMARY 5

PAPER 1

(BOOKLET B)

15 questions

20 marks

Total Time for Booklets A and B: 50 min

Booklet A	
Booklet B	
Total	

INSTRUCTIONS TO CANDIDATES

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

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of calculators is **NOT** allowed.

This booklet consists of printed pages 6 to 12.

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. Write the following in figures.

Six hundred thousand, nine hundred and nineteen.

Ans: _____

17. When a whole number is rounded off to the nearest thousand, it becomes 60 000. What is the largest possible value of this whole number?

Ans: _____

18. Find the value of $30 - 2 \times 4 + 24 \div 2$.

Ans: _____

(Go on to the next page)

Do not write
in this space

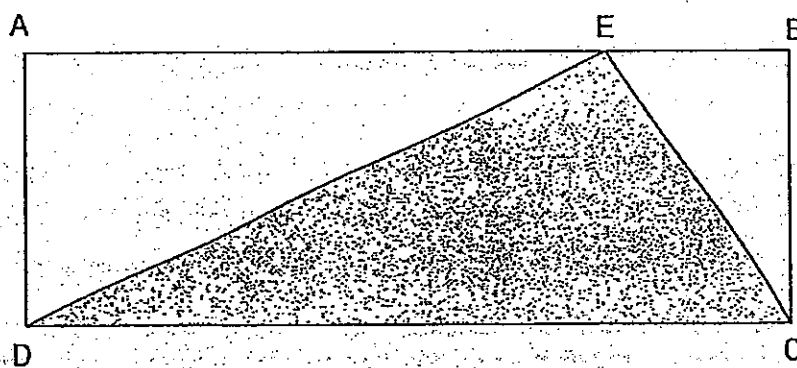
19. Find the value of $18.5 \div 50$. Give your answer as a decimal.

Ans: _____

20. Express 0.06 as a percentage.

Ans: _____ %

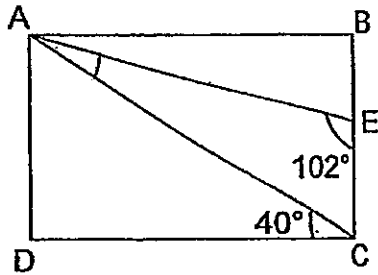
21. In the figure below, ABCD is a rectangle of area 48 cm^2 .
Find the area of the shaded triangle CED.



Ans: _____ cm^2

(Go on to the next page)

22. In the figure, ABCD is a rectangle. Find $\angle EAC$.



Do not write
in this space.

Ans: _____°

23. Find the value of $11\frac{1}{6} - \frac{7}{12}$.

Give your answer as a mixed number in the simplest form.

Ans: _____

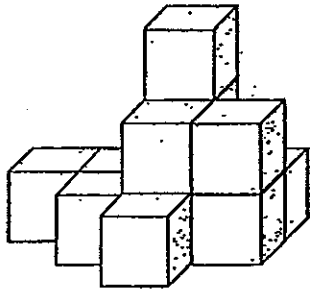
24. How many sixths are there in $5\frac{5}{6}$?

Ans: _____

(Go on to the next page)

25. The following solid figure is made up of identical cubes of edge 1 cm.
Find the volume of the solid figure.

Do not write
in this space.



Ans: _____ cm³

Total marks for questions 16 to 25

(Go on to the next page)



Questions 26 to 30 carry 2 marks each. Show your working clearly 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)

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in this space.

26. Find the value of $3 \div 7$. Give your answer in 2 decimal places.

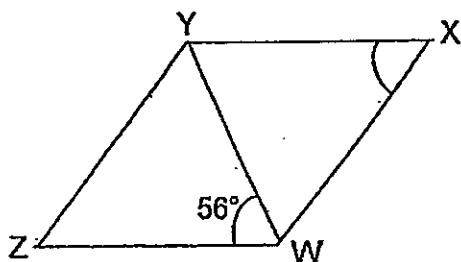
Ans: _____

27. A machine can print 70 cards in 6 minutes. How many cards can it print in 2 hours?

Ans: _____

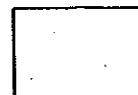
(Go on to the next page)

28. In the figure below, $WXYZ$ is a rhombus. Given that $\angle ZWY$ is 56° , find $\angle YXW$.



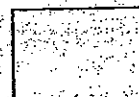
Do not write
in this space.

Ans: _____°



29. Mrs Rajoo bought some mangoes and oranges at a fruit stall. 2 mangoes cost as much as 5 oranges. She paid \$11.20 for 4 mangoes and 4 oranges. What is the cost of 1 orange?

Ans: \$ _____



(Go on to the next page)

30. A piece of rope is cut into 3 pieces, A, B and C. The length of rope A is thrice the length of rope B. Rope C is half of rope B. Half of rope A is 12 cm. How much longer is rope A than rope C?

Do not write
in this space.

Ans: _____ cm



End of Booklet B

Name : _____ () 22 October 2013

Class : P 5 _____



CATHOLIC HIGH SCHOOL
END-OF-YEAR EXAMINATION 2013
MATHEMATICS
PRIMARY 5
PAPER 2

Total Time: 1 h 40 min

Parent's Signature: _____

INSTRUCTIONS TO CANDIDATES

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

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

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

Questions 1 to 5 carry 2 marks each. Show your working clearly 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)

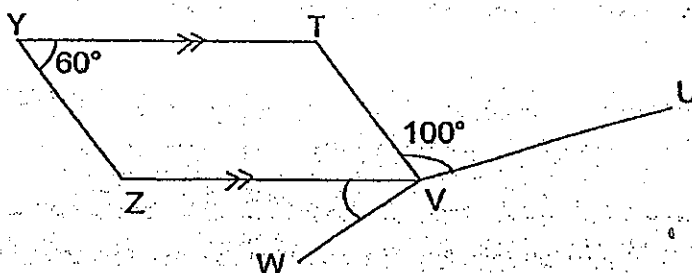
Do not write
in this space.

1. A computer costs \$1600 after a 20% discount is given. What is the price of the computer before discount?

Ans: \$ _____

2. In the figure below, YTVZ is a parallelogram. $\angle ZVW$ is $\frac{1}{3}$ of $\angle UVW$.

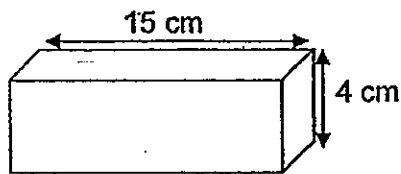
Find $\angle ZVW$



Ans: _____

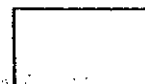
(Go on to the next page)

3. The figure below shows a cuboid with a shaded square face of edge 4 cm. Find the volume of the cuboid:



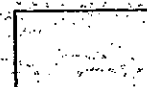
Ans: _____ cm^3

Do not write
in this space.



4. Andy and Bala have 450 beads altogether. Bala and Christian have a total of 360 beads. Andy has twice as many beads as Christian. How many beads does Andy have?

Ans: _____



(Go on to the next page)

5. For every 50 cents that Daniel saved, his mother will give him 20 cents. When Daniel had \$24.50 in his savings, how much of it was given by his mother?

Do not write
in this space.

Ans: \$ _____



(Go on to the next page)

For questions 6 to 18, show your working clearly and write your answers in the spaces provided. 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)

Do not write
in this space.

6. Mary and John had the same number of stamps at first. After Mary gave away 42 stamps and John lost 26 stamps, John had twice as many stamps left as Mary. How many stamps did each of them have at first?

Ans: _____ [3]

7. In a school hall, the ratio of the number of boys to the number of girls was 3 : 5 at first. After 14 boys entered the school hall and 14 girls left the school hall, the number of boys became twice the number of girls. How many boys were there in the school hall at first?

Ans: _____ [3]

(Go on to the next page)

8. The usual price of a pair of shoes was \$200. Jackson bought the shoes at a discount of 15%. In addition, he had to pay 7% GST on the discounted price. How much did he pay for the pair of shoes in total?

Do not write
in this space.

Ans: _____ [3]

9. Gary spent $\frac{1}{3}$ of his monthly salary on food. After he gave $\frac{1}{4}$ of his remaining money to his mum, he decided to save the remaining \$504. How much was Gary's monthly salary?

Ans: _____ [3]

(Go on to the next page)

10. Some candies were distributed to a group of children. The number of girls was equal to the number of boys. Each girl was given 5 candies while each boy was given 8 candies. The boys received a total of 162 candies more than the girls. How many children were there in the group?

Do not write
in this space.

Ans: _____ [3]

11. Jason had 20 sweets more than Mason at first. After Jason gave 46 sweets to Mason, the ratio of the number of sweets that Mason had to the number of sweets that Jason had became 5 : 3. Find the number of sweets Mason had in the end.

Ans: _____ [3]

(Go on to the next page)

12. Kayson bought 4 doughnuts and 5 pies from a cafe for \$24.70. A pie cost \$1.70 more than a doughnut. What is the maximum number of doughnuts Kayson can buy with \$27?

Do not write
in this space.

Ans: _____ [4]

(Go on to the next page)

13. Shaded and unshaded triangles are used to form a sequence of patterns. The first four patterns are shown below.

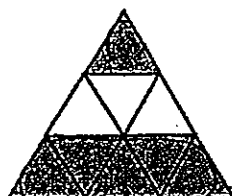
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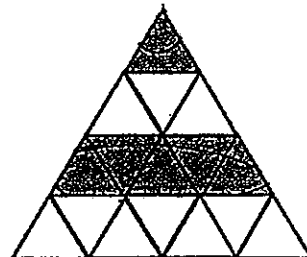
Pattern 1



Pattern 2



Pattern 3



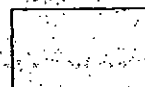
Pattern 4

Complete the following table.

Pattern Number	Number of shaded triangles	Number of unshaded triangles
1	1	0
2	1	3
3	6	3
4	6	10
5	(a)	(b)

(c). What is the total number of triangles in Pattern 25?

Ans: (c) _____ [2]

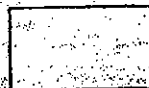


(Go on to the next page)

14. A box with 30 identical notebooks in it weighs 3.6 kg. The same box with 20 identical files in it weighs 4.7 kg. The mass of each file is twice the mass of each notebook. What is the mass of the empty box?

Do not write
in this space.

Ans: _____ [4]



(Go on to the next page)

15. Keagan spent 25% of his money on petrol and \$70 on food. He then spent 30% of his remaining money on clothes and \$105 on groceries. Given that he was left with \$35, how much money did he have at first?

Do not write
in this space.

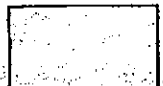
Ans: _____ [5]

(Go on to the next page)

16. Lukas and Jason share some stickers. The ratio of Lukas's stickers to Jason's stickers was 3 : 5. After Lukas gave away 20 stickers, Lukas has half as many stickers as Jason. How many more stickers must Lukas give away in order to have 20% of Jason's stickers?

Do not write
in this space.

Ans: _____ [5]

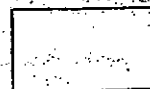


(Go on to the next page)

17. In a school hall, chairs were arranged in rows such that there were exactly 15 chairs in each row. For a performance, 7 more chairs were added into the school hall and all the chairs were rearranged. There are now exactly 11 chairs in each row and 9 more rows than before. How many chairs are there in the school hall for the performance?

Do not write
in this space.

Ans: _____ [5]

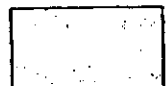


(Go on to the next page)

18. Some children and adults were at a ~~carnival~~ carnival. Every boy was given 5 sweets while each girl was given 2 sweets. Every adult was also given 1 sweet. $\frac{1}{4}$ of the people at the carnival were adults and the ratio of the number of boys to the number of girls was 3 : 2. How many children were there altogether given that a total of 310 sweets were distributed?

Do not write
in this space.

Ans: _____ [5]



- End of Paper 2 -

Answer Key

EXAM PAPER 2013

SCHOOL : CATHOLIC HIGH

SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA2

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

16)600919

17)60499

18)34

19)0.37

20)6%

21)24cm²

22)28°

23)107/12

24)35

25)12cm³

26)0.43

27)1400

28)68°

29)\$0.80

30)20cm

Paper 2

1)80% = \$1600

20% = \$400

100% = \$2000

2)360° - 100° - 60° = 200°

200° ÷ 4 = 50°

∠ZVW is 50°

3)15cm x 4cm x 4cm = 240cm³

4)A+B+B+C= 450+ 360 = 810

A+B-B+C = 450 - 360 = 90

90 x 2 = 180 beads

5) $50c + 20c - 70c$
 $\$24.50 \div 70c = 35$
 $35 \times 20c = \$7$

6) $42 - 26 = 16$
 $16 + 42 = 58$

7) $14 \div 7 = 2$
 $2 \times 9 = 18$

8) $85/100 \times 200/1 = \$170$
 $107/100 \times 170/1 = \$181.90$

9) $\$504 \div 3 = \168
 $\$168 \times 6 = \1008

10) $8 - 5 = 3$
 $162 \div 3 = 54$
 $54 \times 2 = 108$

11) $26 + 26 + 20 = 72$
 $72 \div 2 = 36$
 $36 \times 5 = 180$

12) $\$1.70 \times 5 = \8.50
 $\$24.70 - \$8.30 = \$16.20$
 $\$16.20 \div 9 = \1.80
 $\$27 \div \$1.80 = 15$

13) a) 15
b) 10
c) 625

14) Box + 20 files = 4.7kg
Box + 40 note = 4.7kg
Box + 30 note = 3.6kg
10 note = 1.1kg
1 note = 110g
40 note = 4.4kg
 $4.7kg - 4.4kg = 300g$

15) \$105 + \$35 = \$140

\$140 ÷ 7 = \$20

\$20 × 10 = \$200

\$200 + \$70 = \$270

\$270 ÷ 3 = \$90

\$90 × 4 = \$360

16) 10 ÷ 5 = 2

20 × 3 = 60

17) 11 × 9 = 99

99 - 7 = 92

92 ÷ 4 = 23

23 × 15 = 345

345 + 7 = 352

18) 9 × 5 = 45

6 × 2 = 12

45 + 12 + 5 = 62

310 ÷ 62 = 5

5 × 15 = 75

