503 / SA1 / 11

CATHOLIC HIGH SCHOOL

MID-YEAR EXAMINATION 2015

MATHEMATICS

PRIMARY 5

PAPER 1

(BOOKLET A)

Name _____ ( )

Class: Primary 5 _____

Date: 13 May 2015

Total Time for Booklets A and B: 50 min

15 questions

20 marks

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.

Booklet A and B consist of 11 printed pages.

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 oval (1, 2, 3 or 4) on the Optical Answer Sheet. All diagrams are not drawn to scale. (20 marks)

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1. In which of the following is the digit '8' in the hundred thousands place?

   1) 2 345 897
   2) 2 348 597
   3) 2 384 597
   4) 2 834 597

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2. Which one of the following when rounded off to the nearest thousand is 234 000?

   1) 233 099
   2) 233 499
   3) 234 099
   4) 234 599

---

3. How many eighths are there in $2\frac{5}{8}$?

   1) 16
   2) 18
   3) 21
   4) 25

(Go on to the next page)

4. Which one of the following is not an equivalent fraction of $\frac{2}{5}$?

1) $\frac{4}{10}$
2) $\frac{6}{15}$
3) $\frac{8}{16}$
4) $\frac{8}{20}$

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5. 4 : ☐ = 32 : 72. What is the missing number in the box.

1) 8
2) 9
3) 12
4) 14

---

6. What is the value of 2200 × 50?

1) 110
2) 11 000
3) 101 000
4) 110 000

---

7. The area of a rectangle is 144 cm^2. The breadth is 8 cm. What is the length of the rectangle?

1) 9 cm
2) 18 cm
3) 32 cm
4) 72 cm

(Go on to the next page)

8. Find the value of 15.2 – 6.78.

1) 8.42
2) 8.58
3) 11.58
4) 21.98

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9. Express $\frac{7}{8}$ as a decimal.

1) 7.8
2) 8.75
3) 0.78
4) 0.875

---

10. Mrs Ong bought 25 chicken buns and 40 red bean buns. What was the ratio of the number of chicken buns to the number of red bean buns bought?

1) 5 : 8
2) 5 : 13
3) 8 : 5
4) 8 : 13

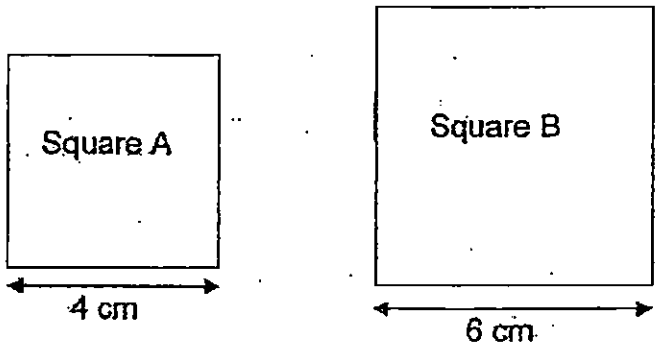
---

11. Sam has 135 stickers. Sam has 45 stickers less than Tom. How many stickers do they have altogether?

1) 90
2) 180
3) 225
4) 315

(Go on to the next page)

12. The figures below are two squares. Square A has a side of 4 cm. Square B has a side of 6 cm. Find the ratio of the area of Square B to the area of square A.



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

---

13. A repeated pattern is formed using the letter A, B, C and D.

1st 2nd 3rd 18th
A, A, B, C, D, D, A, A, B, C, D, D, A, A, B, C, D, D, ...

What is the letter in the 33rd position?

(1) A
(2) B
(3) C
(4) D

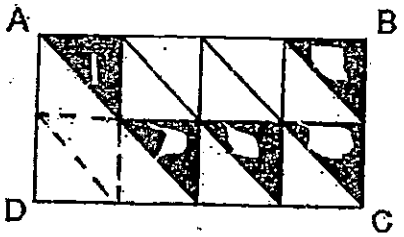
---

14. There were 350 people at the stadium. The number of children was twice the number of men. The number of men was twice the number of women. How many women were there?

(1) 50
(2) 70
(3) 100
(4) 140

(Go on to the next page)

15. A rectangle ABCD is made up of 1 large triangle and 12 small triangles. What fraction of the rectangle ABCD is shaded?



(1) $\frac{5}{8}$

(2) $\frac{5}{12}$

(3) $\frac{5}{13}$

(4) $\frac{5}{16}$

END OF BOOKLET A

CATHOLIC HIGH SCHOOL

MID-YEAR EXAMINATION 2015

MATHEMATICS

PRIMARY 5

PAPER 1

(BOOKLET B)

Name : _____ ( )

Class: Primary 5 _____

Date: 13 May 2015

Total Time for Booklets A and B: 50 min

15 questions

20 marks

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.

Booklet A and B consist of 11 printed pages.

Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale.

(10 marks)

Do not write in this space.

16. Write six million, five hundred and three thousand and nineteen in figures.

Ans: _____

17. Find the value of $74 - (23 - 8) \times 3 + 16$.

Ans: _____

18. Find the value of 0.52×6.

Ans: _____

(Go on to the next page)

Do not write in this space.

19. $\frac{6}{11} + \frac{1}{11} = \square \times \frac{1}{11} + \frac{3}{11}$

What is the missing answer in the box?

Ans: _____

20. Express $15 \div 4$ as a mixed number in its simplest form.

Ans: _____

21. Arrange the following numbers from the smallest to the largest.

1 809 543, 190 834, 1 345 908, 2 453 890

Ans: _____, _____, _____, _____

(Go on to the next page)

Do not write in this space.

22. A printer can print 40 cards in 1 minute. How many cards can the printer print in 1 hour?

Ans: _____

23. At a drink stall, Mrs Raja sold 25 000 ml of apple juice in a day. The apple juice was sold in cups containing 250 ml of juice each. How many cups of apple juice did she sell in a day?

Ans: _____

24. Julian has a wire 12.28 m long. He bends it to make a square. What is the length of each side of the square?

Ans: _____ m

(Go on to the next page)

25. The ratio of the number of apples to the number of oranges in a basket is 5 : 1. The ratio of the number of oranges to the number of mangoes is 2 : 3. What is the ratio of the number of apples to the number of oranges to the number of mangoes in the basket? Give your answer in the simplest form.

Do not write in this space.

Ans: _____

Total marks for questions 16 to 25

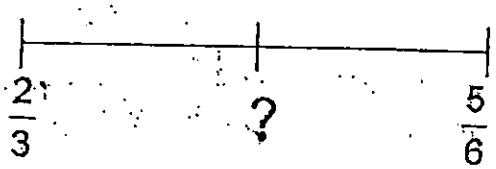
10

(Go on to the next page)

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

26. Find the fraction that is exactly the midpoint of $\frac{2}{3}$ and $\frac{5}{6}$.

Express your answer in the simplest form.



Do not write in this space.

Ans: _____

27. Tara divided $\frac{2}{3}$ of a cake equally among 4 friends. What fraction of the cake did each friend get? Express your answer in the simplest form.

Ans: _____

28. John has a rectangular photo frame. The ratio of the length of the frame to the breadth of the frame is 2 : 1. The perimeter of the frame is 48 cm. Find the length of the frame.

_____ cm

(Go on to the next page)

Do not write in this space.

29. James had the exact amount of money to buy 9 cheeseburgers. He bought 6 cheeseburgers and had $4.50 left. How much money did he have at first?

Ans:$ _____

30. Every time Miguel put $2 in his savings box, his father put another $1 into the box. When there were $63 in the savings box, how much money had been put in by his father?

Ans:$ _____

Total marks for questions 26 to 30

END OF BOOKLET B
END OF PAPER 1

10

CATHOLIC HIGH SCHOOL

MID-YEAR EXAMINATION 2015

MATHEMATICS

PRIMARY 5

PAPER 2

Name : _____ ( )

Class: Primary 5 _____

Date: 13 May 2015

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.

Answer all questions.

Write your answers in this booklet.

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

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.
All diagrams are not drawn to scale.

(10 marks)

Do not write in this space.

1. Jane mixed $\frac{3}{4}$ kg of flour and $\frac{1}{8}$ kg of butter together. She used $\frac{1}{2}$ of the mixture to bake cookies. How much mixture was left?

Ans: _____ kg

2. The table below shows the charges for sending a parcel. Ray sent a parcel of mass 205 g. How much did he pay?

Mass of Parcel	Charges
For the first 150 g	$2.70
For every additional 50 g or part thereof	$1.50

Ans:$ _____

(Go on to the next page)

Do not write in this space.

3. The ratio of Alan's mass to Ben's mass to Carl's mass is 9 : 7 : 6. Ben has a mass of 56 kg. How much heavier is Alan than Carl?

Ans: _____ kg

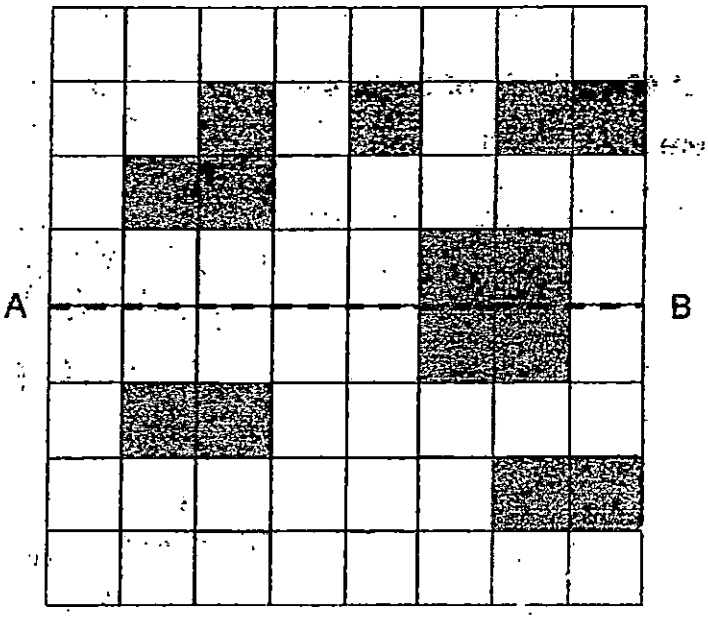
4. Mrs Tan bought 4 *l* of orange juice. She drank $\frac{1}{2}$ *l*. How much orange juice was left?

Ans: _____ *l*

(Go on to the next page)

Do not write in this space.

5. The figure below is made of squares. Shade 2 squares so that the dotted line AB is a line of symmetry of the figure.



(Go on 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. 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. In a class of 42 pupils, $\frac{1}{2}$ of the girls is equal to $\frac{2}{3}$ of the boys. How many girls are there in the class?

Ans: _____ [3]

7. Rico had an equal number of chocolate cookies and peanut cookies. After selling 384 peanut cookies, he had 3 times as many chocolate cookies as peanut cookies. How many cookies did he have at first?

Ans: _____ [3]

(Go on to the next page)

Do not write in this space.

8. Paul had 3 boxes of tarts. There was an equal number of tarts in each box at first. He took 12 tarts from each box. Then, the total number of tarts left in the 3 boxes was equal to the total number of tarts in 2 boxes at first. What was the total number of tarts at first?

Ans: _____ [3]

9. Ben and Charlie had $270 at first. When Ben received $42 from his mother, Charlie would have thrice as much money as Ben. How much money did Ben have at first?

Ans: _____ [3]

(Go on to the next page)

Do not write in this space.

10. The ratio of the number of red beads to the number of green beads Davis had was 3 : 5. There were 70 more green beads than red beads. Davis bought another 20 red beads. How many red beads did Davis have in the end?

Ans: _____ [3]

11. Jack had some money. He spent $\frac{1}{4}$ of it on a watch and $\frac{1}{6}$ of it on a wallet. The watch and wallet cost $133.50 altogether. How much money had he left?

Ans: _____ [4]

(Go on to the next page)

Do not write in this space.

12. At a carnival, every girl was given 2 candy floss and every boy was given 3 candy floss. There were thrice as many girls as boys. A total of 63 candy floss were given out. How many girls were there at the carnival?

Ans: _____ [4]

13. There were 40 children at a party. Each girl was given 5 balloons and each boy was given 3 balloons. A total of 186 balloons were given to the children. How many more girls than boys were at the party?

Ans: _____ [4]

(Go on to the next page)

Do not write in this space

14. Mrs Lee baked 180 muffins. $\frac{4}{9}$ of them were chocolate muffins, $\frac{2}{5}$ of the remainder were strawberry muffins and the rest were raisin muffins. She sold 16 of the raisin muffins.
How many raisin muffins did Mrs Lee have left?

Ans: _____ [4]

(Go on to the next page)

Do not write in this space.

15. At first, Ken had 150 stamps and his brother had some stamps. After giving 40 stamps to his brother, the ratio of the number of stamps Ken had to the number of stamps his brother had was 5 : 3.

(a) How many stamps did Ken have in the end?

(b) How many stamps did his brother have at first?

Ans: (a) _____ [1]

(b) _____ [3]

(Go on to the next page)

Do not write in this space.

16. Wendy bought some apple pies for $13.20 and had some money left. If she decided to buy 1 more apple pie, she would have $0.40 left. If she decided to buy 3 more apple pies, she would be short of $1.80.

(a) How many apple pies did she buy with $13.20?

(b) How much money did Wendy have at first?

(a) _____ [3]

(b) _____ [2]

(Go on to the next page)

Do not write in this space.

17. Ray had some money. He spent $\frac{3}{5}$ of his money and an additional \$30 on a bicycle. He then spent $\frac{1}{3}$ of his remaining money and an additional \$20 on a skateboard. Ray had \$80 left. How much money did he have at first?

Ans: _____ [5]

(Go on to the next page)

Do not write in this space.

18. During a sale, John spent $650 of his money on a laptop and the remaining money on a pair of speakers and a thumb drive. The ratio of the amount of money he spent on the pair of speakers to the thumb drive was 5 : 2.

He used $\frac{1}{4}$ of his money for the pair of speakers.

(a) What fraction of the remaining money did John spend on the thumb drive?

(b) How much money did John had at first?

Ans: (a) _____ [1]

(b) _____ [4]

END OF PAPER 2
CHECK YOUR WORK

(Go on to the next page)

EXAM PAPER 2015
LEVEL : PRIMARY 5
SCHOOL : CATHOLIC HIGH SCHOOL
SUBJECT : MATH
TERM : SA1

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

Q16. ANS : 6503019

Q17. ANS : 45

$74 - 15 \times 3 + 16 = 74 - 45 + 16 = 29 + 16 = 45$

Q18. ANS : 3.12

Q19. ANS : 4

$\frac{6}{11} + \frac{1}{11} = \frac{7}{11}$

$\frac{7}{11} - \frac{3}{11} = \frac{4}{11}$

Q20. ANS : $3\frac{3}{4}$

$15 \div 4 = \frac{15}{4} = 3\frac{3}{4}$

Q21. ANS : 190 834 , 1 345 908 , 1 809 543 , 2453 890

Q22. ANS : 2400

1 hr = 60minutes , 60 x 40 = 2400

Q23. ANS : 100

25000ml ÷ 250ml = 100

Q24. ANS : 3.07m

12.28 ÷ 4 = 3.07

Q25. ANS : 10 : 2 : 3

APPLE : ORANGE = 5 : 1 = 10 : 2.

ORANGE : MANGEO = 2 : 3 = 2 : 3

Q26. ANS : ¾

$\frac{9}{12} \div 3 = ¾$

Q27. ANS : ⅙

$\frac{2}{3} \div 4 = \frac{2}{3} \times \frac{1}{4} = ⅙$

Q28. 16cm
Length : Breadth
2 : - 1
2U + 1U +2U + 1U = 6U
6U = 48
IU = 48 ÷ 6 = 8
Length = 8 x 2 = 16

Q29. ANS : $13.50
9 – 6 = 3
3U = $4.50 , IU + $1.50, 9U = $1.50 X 9 = $13.50.

Q30. ANS : $21
1 group = 2 + 1 = 3, 63 ÷ 3 = 21 group , 21 x $1 = $21

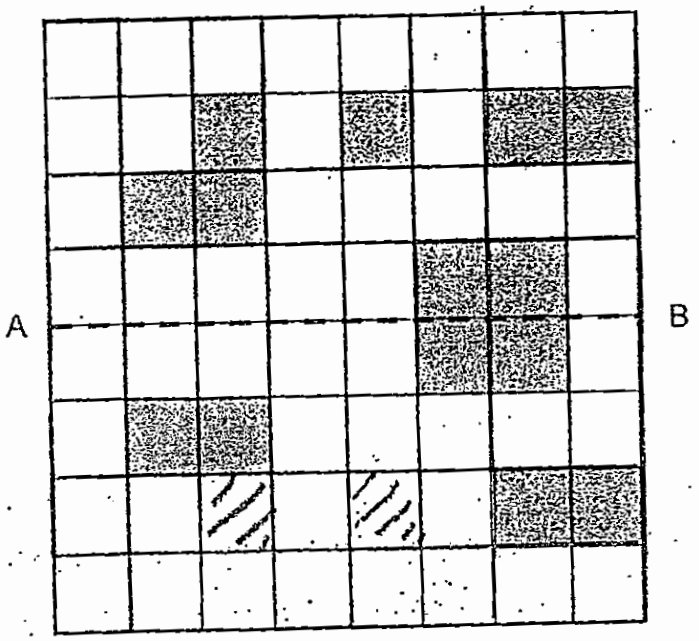
Q1. ANS : $\frac{7}{16}$kg
$\frac{3}{4}+\frac{1}{8}=\frac{6}{8}+\frac{1}{8}=\frac{7}{8}$
$\frac{7}{8}$ X $\frac{1}{2}=\frac{7}{16}$

Q2. ANS : $5.70$2.70 + $1.50 + $1.50 = $5.70

Q3. ANS : 24 KG
ALAN : BEN : CARL
9 : 7 : 6
72 : 56 : 48
Difference = 72 – 48 = 24kg

Q4. ANS : $3\frac{1}{2}$litre
$4-\frac{1}{2}=3\frac{2}{2}-\frac{1}{2}=3\frac{1}{2}$litre

Q5. ANS : SEE PICTURE



Q6. ANS : 24 girls
½ of girls = ⅔ of the boys
$^{2}/_{4}$ *of girls = ⅔ of boys*
4U + 3U = 7U, 7U = 42, 7U = 42, IU = 42 ÷ 7 = 6
Girls = 4 x 6 = 24

Q7. ANS : 1152 cookies
2U = 384 , IU = 384 ÷ 2 = 192.
At first = 192 + 384 = 576
Peanut + Chocolate = 576 x 2 = 1152

Q8. ANS : 108 tarts
1 box at first = 12 x 3 = 36.
3 boxes at first = 36 x 3 = 108
36 – 12 = 24, 24 x 3 = 72 , 2 box at first = 36 x 2 = 72

Q9. ANS : $36
270 + 42 = 312
4U = 312 – (42 X 4) = 312 – 168 = 144
4U = 144, IU = 144 ÷ 4 = 36

Q10. ANS : 125 red beads
5U – 3U = 2U
2U = 70, 1U = 70 ÷ 2 = 35, 3U = 35 X 3 = 105
Red beads, end = 105 + 20 = 125

Q11. Ans : $186.90
$1 - \frac{1}{4} - \frac{1}{6} = \frac{7}{12}$
$\frac{1}{4} + \frac{1}{6} = \frac{5}{12}$
5U = 133.5 , IU = 133.5 ÷ 5 = 26.70 , 7U = 26.70 X 7 = 186.90

Q12. ANS : 21 girls
1 group = (3 x 2) + (1 + 3) = 6 + 3 = 9
63 ÷ 9 = 7 groups
Girls = 7 x 3 = 21

Q13. ANS : 26
Assume all girls,
40 x 5 = 200, 200 – 186 = 14, 5 – 3 = 2
Boys = 14 2 = 7.
Girls = 40 – 7 = 33
Difference = 33 – 7 = 26

Q14. 44 raisin muffins
4U = 180 , IU = 180 ÷ 9 =20
Rasin left = 60 – 16 = 44

Q15a ANS : 110 Q15b. 26

KEN : BROTHER

5 : 3

110 : 66

Ken , now = 150 – 40 = 110

Brother, at first = 66 – 40 = 26

Q16a. ANS : 12 apple pies Q16b. $14.70

$1.80 + $0.40 = $2.20, 3 – 1 = 2

2 apple pies = $2.20

1 apple pie = $2.20 ÷ 2 = $1.10

Bought $13.20 ÷ $1.10 = 12

Wendy, at first = 413.20 + $1.10 + $0.40 = $14.70

Q17. ANS : $450

2U = $80 + $20 = 4100

1U = $100 ÷ 2 = $50 , 3U = 450 X 3 = 4150

$\frac{2}{5}$ of the total = 4150 + $30 = $180

$\frac{1}{5}$ *of the total* = $180 ÷ 2 = $90

$\frac{5}{5}$ *of the total* = $90 x 5 = $450

Q18a. ANS : $\frac{2}{7}$ Q18b. $1000

Speaker = $\frac{5}{7}$ of remaining

$\frac{7}{7} - \frac{5}{7} = \frac{2}{7}$

Thumbdrive = $\frac{2}{7}$ of remaining

$\frac{1}{4}$ of total = 5U

$\frac{3}{4}$ of total = 15u

$\frac{4}{4}$ *of total* = 204

$15U - 2U = 13U$

13U = $650, IU = $650 ÷ 13 = 50 , 20U = 50 X 20 = 1000

THE END