

Name : \_\_\_\_\_ (

14 May 2009

Class : P 5



CATHOLIC HIGH SCHOOL

PRIMARY FIVE

MID-YEAR EXAMINATIONS 2009

MATHEMATICS

PAPER 1 (BOOKLET A)

Total Time for Booklets A: 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.

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

Marks	Max Mark
	20

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(Go to the next page)

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. (20 marks)

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1. Round off 865 672 to the nearest thousand.

- (1) 865 000
  - (2) 865 700
  - (3) 866 000
  - (4) 870 000
- 

2. Kim Boon wanted to use his calculator to subtract 734 from 1365. He accidentally entered  $1965 - 734$  by mistake. What should he do to the answer shown on the calculator to correct his mistake?

- (1) Add 6
  - (2) Add 600
  - (3) Subtract 6
  - (4) Subtract 600
- 

3. Find the value of  $24 + 12 \div 3 \times 4$

- (1) 3
  - (2) 25
  - (3) 40
  - (4) 48
- 

4. Justin is 1.44 m tall. Edgar is 162 cm tall. What is their average height?

- (1) 81 cm
  - (2) 153 cm
  - (3) 162 cm
  - (4) 306 cm
- 

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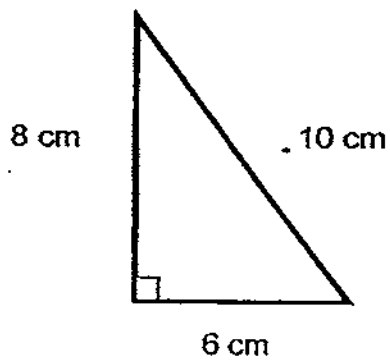
5. Raphael's average score for 4 subjects is 82.

Subject	English	Mathematics	Science	Chinese
Score	75	?	78	87

What is his score for Mathematics?

- (1) 66
  - (2) 76
  - (3) 80
  - (4) 88
- 

6. Find the area of the following triangle.



- (1)  $12 \text{ cm}^2$
  - (2)  $24 \text{ cm}^2$
  - (3)  $30 \text{ cm}^2$
  - (4)  $48 \text{ cm}^2$
- 

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7. Find the value of  $\frac{3}{5} \times 15$

(1)  $\frac{1}{15}$

(2)  $\frac{1}{25}$

(3) 9

(4) 45

---

8. 6 boys shared  $\frac{2}{3}$  of a pizza.

What fraction of the pizza did each boy get?

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

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

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

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

---

9. Which of the following ratio is an equivalent ratio of 2 : 3 ?

(1) 4 : 9

(2) 6 : 9

(3) 8 : 14

(4) 10 : 18

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10. At a carnival, there are a total of 105 children. If the ratio of boys to girls is 4 : 3, how many girls are there?

- (1) 15
  - (2) 35
  - (3) 45
  - (4) 60
- 

11. Express 0.02 as a fraction in the simplest form.

- (1)  $\frac{1}{50}$
  - (2)  $\frac{1}{20}$
  - (3)  $\frac{1}{10}$
  - (4)  $\frac{1}{5}$
- 

12. Mrs Lee bought 8.2 kg of flour. She made 25 cupcakes. If 0.3 kg of flour is used for each cupcake, how many kilograms of flour were left?

- (1) 0.7 kg
  - (2) 1.2 kg
  - (3) 2.46 kg
  - (4) 7.45 kg
- 

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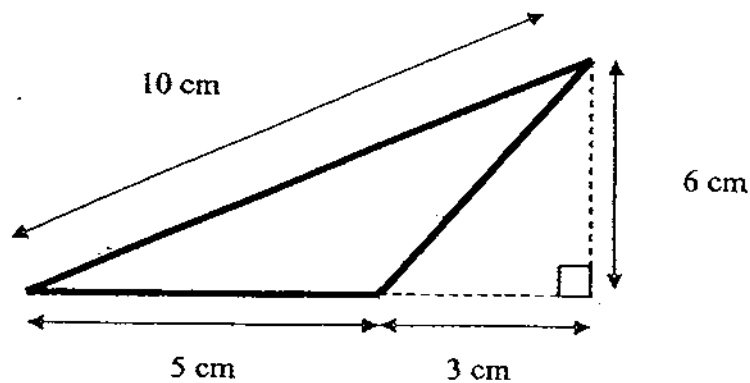
13. Mr Tan planted coconut trees 1 m apart from each other to form the border of a square garden. If there are 6 coconut trees on each side, how many coconut trees did Mr Tan plant?

- (1) 18
  - (2) 20
  - (3) 24
  - (4) 36
- 

14. David received \$60 for pocket money this month. This was  $\frac{3}{4}$  of the money Bob received. How much was Bob's pocket money?

- (1) \$20
  - (2) \$45
  - (3) \$50
  - (4) \$80
- 

15. Find the area of the triangle below.



- (1) 15 cm<sup>2</sup>
  - (2) 18 cm<sup>2</sup>
  - (3) 24 cm<sup>2</sup>
  - (4) 48 cm<sup>2</sup>
- 

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MATHEMATICS

PAPER 1 (BOOKLET B)

Total Time for Booklets A: 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.

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.

Marks	Max Mark
	20

(Go to the next page)

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)

Do not write  
in this space

16. Find the average of 8.01 m, 9.2 m and 7 m.

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

17. Find the value of  $5\frac{1}{2} - 2\frac{3}{4}$

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

18. A box contains 54 blue marbles and 18 are green marbles. Find the ratio of the number of green marbles to the total number of marbles. Give your answer in the simplest form.

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

(Go to the next page)



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19. Given that  $A \times B = 50$ , find the value of  $\frac{A}{10} \times \frac{B}{10}$ . Express your answer as a decimal.

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

20. Express 640 m as a fraction of 1.6 km.

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

21. Express 3.45 as a mixed number in its simplest form.

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

22. The ratio of blue cars to white cars is 1 : 5. If there are 10 blue cars, how many white cars are there?

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

(Go to the next page)

23. After Lyndon spent \$360, he had \$440 left. Express the amount he spent as a fraction of the money he had at first. Give your answer in the simplest form.

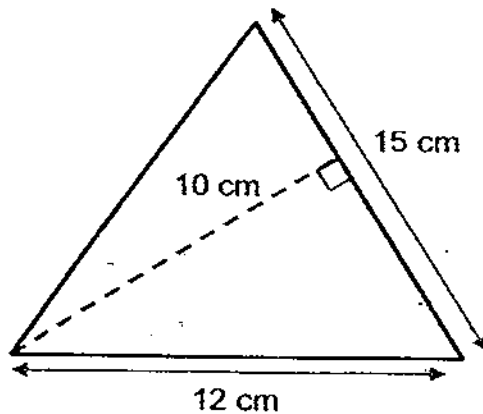
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Ans: \_\_\_\_\_

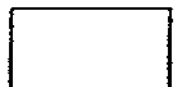
24. Express  $2\frac{7}{8}$  as a decimal.

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

25. Find the area of the triangle below.



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



(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. (10 marks)

Do not write  
in this space

26. The average of two numbers is 35.8 and the average of another set of two numbers is 28. Find the average of these four numbers.

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

27. Pauline saves \$150 per year. How much will she save in  $2\frac{2}{3}$  years?

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

28. Collin had \$1500. He donated  $\frac{1}{4}$  of his money to a charity and spent  $\frac{1}{5}$  of the remainder on a necklace for his mother. How much was the necklace?

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

(Go to the next page)

29. Joel took 20 seconds to cut a piece of string into 5 equal parts. How long will he take to cut the same piece of string into 7 equal parts?

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in this space

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

30. The ratio of the number of cats to the number of dogs in a pet shop is 3 : 4. After 12 cats are sold, the ratio of the number of cats to the number of dogs becomes 1 : 2. How many animals were there at first?

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

End of Paper 1



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CATHOLIC HIGH SCHOOL

PRIMARY FIVE

MID-YEAR EXAMINATIONS 2009

MATHEMATICS

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.

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

Write your answers in this booklet.

You are allowed to use a calculator.

Paper 1 Booklet A	2
Paper 1 Booklet B	2
Paper 2	6
Total Marks	10

(Go to the next page)

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)

Do not write  
in this space

1. Terrence can buy 7 files at \$5.60. At this price, how much does he need to buy 18 files?

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

2. The ratio of the number of teachers to the number of pupils in a school is 1 : 20. If there are 570 more pupils than teachers, how many teachers are there in the school?

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

(Go to the next page)

3. How many three-quarters are there in 6?

Do not write  
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Ans: \_\_\_\_\_

4. Joyce is 18 years old. Her cousin is 8 years old. In how many years' time will Joyce be twice as old as her cousin?

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

5. The ratio of the number of boys to the number of girls in a class is 2 : 3. After 4 girls left the class, there are  $\frac{4}{5}$  as many boys as girls. How many pupils are there in the class at first?

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.  
The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

Do not write  
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6. Teresa paid \$134.50 for 4 skirts and 5 blouses.  
Each skirt costs \$5.50 more than each blouse.  
How much did she pay for each blouse?

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

7. In a farm, there are some chickens and sheep.  
There are 10 more chickens than sheep.  
Given that there are altogether 152 legs, how many chickens are there?

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

(Go to the next page)



8. John and Ben had the same number of cards.  
After John lost 19 of his cards and Ben lost 54 of his cards, John had twice as many cards as Ben.  
How many cards had each of them at first?

Do not write  
in this space

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

9. Kevin had a total of 105 red and blue pens.  
He gave away half of his red pens and bought another 24 blue pens.  
As a result, he had an equal number of blue and red pens.  
How many blue pens did he have at first?

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

(Go to the next page)

10. Ashikin bought a number of books at an average price of \$8.  
If he decides to buy another book which cost \$18, the average price of  
all the books will become \$10.  
Find the number of books he bought.

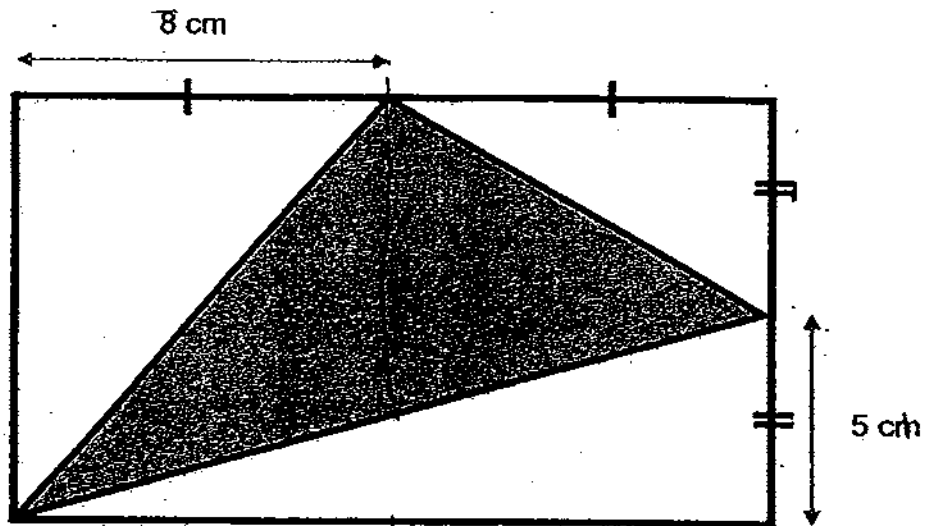
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Ans: \_\_\_\_\_ [3]

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11. In the figure below, a triangle is drawn inside a rectangle. Find the area of the shaded triangle below.

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

(Go to the next page)

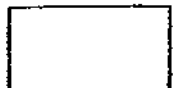
12. Rafi had \$420 more than Terry.

Terry spent  $\frac{3}{5}$  of his money and Rafi spent  $\frac{5}{6}$  of his money.

In the end, Terry and Rafi had the same amount of money left.  
Find the amount of money Rafi had at first.

Do not write  
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Ans: \_\_\_\_\_ [4]



(Go to the next page)

13. Joyce had  $\frac{3}{5}$  as many sweets as Linda and Linda had  $\frac{2}{3}$  as many sweets as Milly.  
If they have a total of 186 sweets altogether, how many sweets did Joyce have?

Do not write  
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Ans: \_\_\_\_\_ [4]



(Go to the next page)

14. In a soccer stadium, the number of female to male spectators is 3 : 7. After 287 female and 287 males left the stadium, the ratio of female to male spectators became 2 : 5. How many spectators were there at first?

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



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15. Look at the figures below.  
The rectangles represent tables and the dots represent chairs for guests at a party.

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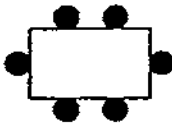


Figure 1

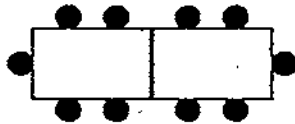


Figure 2

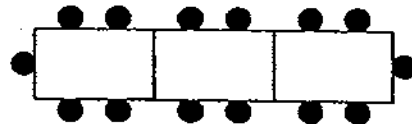


Figure 3

- (a) How many tables will Figure 4 have?  
(b) How many chairs will Figure 7 have?  
(c) If there are 50 guests at the party, how many tables will be needed?

Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [2]

(c) \_\_\_\_\_ [2]

(Go to the next page)

16. Nirmal gave \$600 of his salary to his mother and spent  $\frac{1}{3}$  of the remainder of his salary on food. He saved the rest of the money.

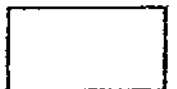
The amount he saved is  $\frac{1}{4}$  of his salary.

- (a) How much did he spend on food?
- (b) How much was Nirmal's salary?

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in this space

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]



(Go to the next page)



17. Mr Tan divided \$800 among his 4 daughters, Ailin, Betty, Carla and Doris. Ailin received 3 times as much as Betty. Carla received  $\frac{1}{2}$  the amount received by Ailin and Betty. Doris received  $\frac{1}{3}$  of what Ailin, Betty and Carla received.

- (a) How much did Ailin receive?
- (b) What fraction of the total money did Betty receive?

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Ans: (a) \_\_\_\_\_ [4]

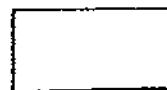
(b) \_\_\_\_\_ [1]

(Go to the next page)

18. There are some coins in a box made up of 20-cent and 50-cent coins. There are four times as many 50-cent coins as 20-cent coins. If the total amount of money in the box is \$55, how many coins are there altogether?

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



End of paper 2



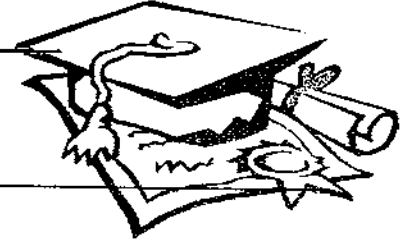
# ANSWER SHEET

EXAM PAPER 2009

SCHOOL : CATHOLIC HIGH PRIMARY SCHOOL

SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA 1



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

16)8.07m      17) $2\frac{3}{4}$       18)1:4      19)0.50      20) $\frac{2}{5}$

21) $3\frac{9}{20}$       22)50      23) $\frac{9}{25}$       24)2.875      25) $75\text{cm}^2$

26)31.9      27)\$400      28)\$225      29)30 seconds      30)84

## Paper 2

1) 7 files $\rightarrow$ \$5.60 1 file $\rightarrow$ $\$5.60 \div 7 = \$0.80$ 18 file $\rightarrow$ $\$0.80 \times 18 = \$14.40$	2) Diff—P and + $\rightarrow 20u - 1u = 19u$ $19u \rightarrow 570$ $1u \rightarrow 570 \div 19 = 30$ $T \rightarrow 1u \rightarrow 30$ There are 30 teachers in the school.
3) $6 \div \frac{3}{4} = 6 \times \frac{4}{3} = 24/3 = 8$	4) 2 years
5) There are 40 pupils in the class at first	6) $9u \rightarrow \$134.50 - (\$5.50 \times 4)$ $= \$112.50$ $1u \rightarrow \$112.50 \div 9 = \$12.50$ $= \$12.50$ $B \rightarrow 1u \rightarrow \$123.50$ She paid \$12.50 for each blouse.

<p>7) There are 32 chickens.</p>	<p>8) <math>35+35+19=89</math> They have 89 cards at first.</p>
<p>9) <math>3u \rightarrow 105 - (24 \times 2) = 57</math> <math>1u \rightarrow 57 \div 3 = 19</math> <math>B \rightarrow 1u \rightarrow 19</math> He have 19 blue pens at first.</p>	<p>10) <math>18 - 10 = 8</math> <math>10 - 8 = 2</math> <math>8 \div 2 = 4</math> books</p>
<p>11) <math>(16\text{cm} \times 10\text{cm} = 160\text{cm}^2) -</math> <math>(8\text{cm} \times \frac{1}{2} = 40\text{cm}^2) -</math> <math>(5\text{cm} \times 16\text{cm} \times \frac{1}{2} = 40\text{cm}^2) -</math> <math>(8\text{cm} \times 5\text{cm} \times \frac{1}{2} = 20\text{cm}^2)</math> <math>= 160\text{cm}^2 - 40\text{cm}^2 - 40\text{cm}^2 -</math> <math>20\text{cm}^2 = 60\text{cm}^2</math> The area of the shaded triangle is <math>60\text{cm}^2</math></p>	<p>12) <math>\frac{2}{5}</math> of Terry's money left <math>\rightarrow \frac{1}{6}</math> of Rafi's money left <math>\frac{2}{5}</math> of Terry's money left <math>\rightarrow \frac{2}{12}</math> of Rafi's money left Diff <math>\rightarrow R</math> and <math>T \rightarrow 12u - 5u = 7u</math> <math>7u \rightarrow \\$420</math> <math>1u \rightarrow \\$420 \div 7 = \\$60</math> <math>R \rightarrow 12u \rightarrow \\$60 \times 12u = \\$720</math> Rafi had \$720 at first.</p>
<p>13) J : L <math>3 : 5_{(x2)} \rightarrow 6 : 10</math> M : L <math>3 : 2_{(x5)} \rightarrow 15 : 10</math> J : M : L <math>6 : 15 : 10</math> Total units <math>\rightarrow 6u + 15u + 10u = 31u</math> <math>31u \rightarrow 186</math> <math>1u \rightarrow 186 \div 31 = 6</math> <math>J \rightarrow 6u \rightarrow 6 \times 6 = 36</math> Joyce have 36 sweets.</p>	<p>14) <math>1u \rightarrow 287</math> total units <math>\rightarrow 9u + 21u = 30u</math> <math>30u \rightarrow 287 \times 30 = 8610</math> There were 8610 spectators at first.</p>
<p>15) a) 4 tables b) 30 chairs c) 12 tables</p>	<p>16) a) \$120 b) \$960</p>
<p>17) a) \$300 b) <math>\frac{1}{8}</math></p>	<p>18) 125 coins in total</p>