

## Catholic High School End-of-Year Examination 2011 Mathematics Primary 5

PAPER 1

(BOOKLET A)

Name :	( )
Class: Primary 5	
Date: 27 October 2011	
15 questions	
20 marks	

# **INSTRUCTIONS TO CANDIDATES**

Total Time for Booklets A and B: 50 min

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.

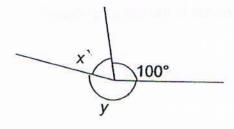
Answer all questions.

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 figures are not drawn to scale. (20 marks)

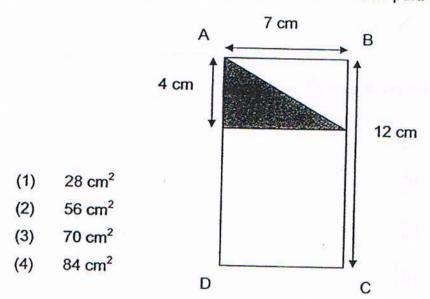
- Round off 5 609 584 to the nearest thousand.
  - (1) 5 600 000
  - (2) 5 609 000
  - (3) 5 610 000
  - (4) 6 000 000
- How many hundreds must be added to 24 000 to make 50 000?
  - (1) 26
  - (2) 260
  - (3) 2 600
  - (4) 26 000
- 3. Find the value of  $(15 \times 5) (56 \div 7) + 36$ .
  - (1) 31
  - (2) 89
  - (3) 103
  - (4) 251
- 4. Express  $\frac{4}{25}$  as a percentage.
  - (1) 0.016%
  - (2) 0.16%
  - (3) 1.6%
  - (4) 16 %

- 5. Three girls shared a sum of money in the ratio 5 : 4 : 3. If the smallest share is \$21, how much is the biggest share?
  - (1) \$7
  - (2) \$28
  - (3) \$35
  - (4) \$84
- 6. There are 40 pupils in a class. 55% of the pupils are boys. How many girls are there?
  - (1) 18
  - (2) 20
  - (3) 22
  - (4) 24
- 7. Find the product of  $2\frac{5}{8}$  and 4.
  - (1)  $4\frac{1}{2}$
  - (2)  $6\frac{5}{8}$
  - (3)  $8\frac{5}{8}$
  - (4)  $10\frac{1}{2}$
- 8. Find the average of 0.5 kg, 2.5 kg and  $\frac{3}{4}$  kg.
  - (1) 1150 g
  - (2) 1250 g
  - (3) 1350 g
  - (4) 1450 g

9. Given that  $\angle y$  is thrice the size of  $\angle x$ , find  $\angle x$ .



- (1) 65°
- (2) 130°
- (3) 195°
- (4) 260°
- ABCD is a rectangle. Find the area of the unshaded part.



- 11. If 75% of a number is 150, what is 60% of the number?
  - ZHX 60
  - (2) 90
  - (3) 120
  - (4) 200

12.	- Out	ere are 10 ch girl gets get?	girls and 20 boys in a class. If each boy gets 15 sweets and 30 sweets, what is the average number of sweets each child
*	(1)	25	
	(2)	20	
	(3)	30	
	(4)	40	
13.	In a	theme par	k, 40% of the people were adults and the rest were either
	seni	ior citizens	or children. There were twice as many children as senior
	citiz	ens. What	percentage of the people were senior citizens?
	(1)	10%	
	(2)	20%	
	(3)	30%	4. * * * * * * * * * * * * * * * * * * *
	(4)	40%	
14.	Tom	spent 20%	% of his salary on a refrigerator and 60% of his remaining evision. If he was left with \$1600, how much was his salary?
	(1)	\$8 000	
	(2)	\$2 000	
	(3)	\$5 000	
	(4)	\$4 000	
			(Go to the next page)

- 15. There are 660 apples and oranges at a fruit stall.  $\frac{3}{5}$  of the apples is equal to  $\frac{1}{2}$  of the oranges. Find the number of apples at the fruit stall.
  - (1) 180
  - (2) 300
  - (3) 330
  - (4) 360

End of Booklet A

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 in this s

Express one hundred and twenty thousand, three hundred and forty-nine in numerals.

Ans: \_\_\_\_

17. 50 × 15 = 23 × 15 + \_\_\_\_ × 15.

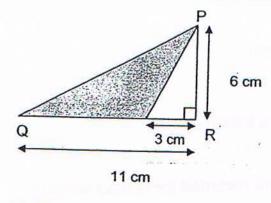
Ans: \_\_\_\_\_

Arrange the following from the smallest to the largest.

$$0.801, \frac{18}{100}, 0.081, 81\%$$

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

19. Find the shaded area of triangle PQR.



Ans: cm



## Catholic High School End-of-Year Examination 2011 Mathematics Primary 5

#### PAPER 1

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$\mathbf{v}$	-	'IXL		$\mathbf{D}$

Name :( )	Booklet A	20
Class: Primary 5	Booklet B	20
Date: 27 October 2011	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.

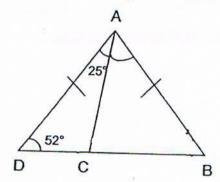
You are not allowed to use a calculator.

20. 1075 m = \_\_\_\_\_ km

Do not in this

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

21. ABD is an isosceles triangle and  $\angle$ CDA = 52°.  $\angle$ DAC = 25°. Find  $\angle$ CAB.



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

22. If the average mass of 6 packets of rice is 0,8 kg, what is the total mass of the 6 packets of rice?

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

23.	Express 14% as a fraction in its simplest form.	Do not in this s
	Ans:	
24.	Find the ratio of 84 cm to 2 m in its simplest form.	
	Ans:	
25.	Express 7.8 as a mixed number. Give your answer in its simplest form.	
		4
	» 	
-	Ans:	
	Total marks for questions 16 to 25	
	(Go to the next page)	

26.	Find the perimeter of an equilateral triangle of side $\frac{2}{3}$ cm.
	give a vide g cini.
	Ans:cm
7.	Jude cuts a string into 8 equal pieces in 14 seconds. How many seconds does he take to cut the same string into 10 equal pieces?
	Ans: seconds
	Cocondo
	A shop sells bags of 3 apples at \$2 for each bag. What is the greatest number of apples that can be bought with \$35?
390	
	Ans:

Do not

in this s

End of Paper 1

Ans:



## Catholic High School End-of-Year Examination 2011 Mathematics Primary 5

	PAPER 2		Paper 1 Booklet A	20
Name :	(	)	Paper 1 Booklet B	20
Class: Primary 5				
Date: 27 October 2011	183		Paper 2	60
Duration: 1 h 40 min			Total Marks	100
Parent's Signature:				

# **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.

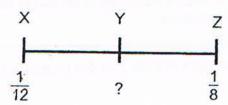
Write your answers in this booklet.

You are allowed to use a calculator.

pace below each question and write your answers in the spaces provided.  If figures are not drawn to scale. For questions which require units, give our answers in the units stated. (10 marks)	Do not wr in this spa
5 identical pencils cost \$9.65. How much will 95 such pencils cost?	
Ans: \$	
The usual price of a shirt was \$30. It was later sold at a discount of 20%. What was the selling price of the shirt after the discount?	
Ans: \$	7
Helius kept ducks, cows and goats on his farm. $\frac{1}{7}$ of his animals were	
goats. He had twice as many ducks as cows. Find the ratio of the number of goats to the number of ducks to the number of cows.	
	5 identical pencils cost \$9.65. How much will 95 such pencils cost?  Ans: \$  The usual price of a shirt was \$30. It was later sold at a discount of 20%. What was the selling price of the shirt after the discount?  Ans: \$  Helius kept ducks, cows and goats on his farm. $\frac{1}{7}$ of his animals were goats. He had twice as many ducks as cover. Find the retire of the second of the seco

In the number line below, the value of X is 1/12 while the value of Z is 1/8.
 Y is the midpoint between X and Z. Find the value of Y.

Do not



Ans:

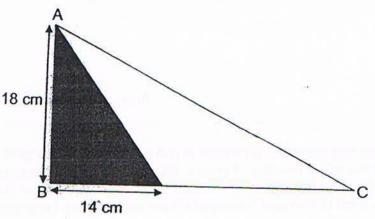
5. The chairs in a hall were arranged in rows for a school concert. Each row had the same number of chairs. Ryan sat on one of the chairs. There were 6 chairs to his right and 8 chairs to his left. There were 5 rows of chairs in front of him and 5 rows of chairs behind him. How many chairs were there in the hall altogether?

Ans:

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)

Do not win this sp

6. The shaded area of triangle ABC is  $\frac{4}{5}$  of the unshaded area. Find the area of triangle ABC.



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

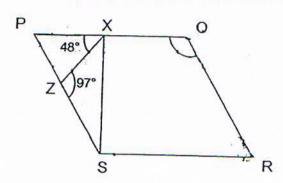
7. A man earns \$7.50 per hour on weekdays and \$1.50 more per hour on Saturdays and Sundays. He works 8 hours each day. If he works every day except Friday, how much does he earn in a week?

Ans:

[3]

PQRS is a parallelogram and XZS is a triangle. Find ∠XQR.

Do not in this s



Ans:	
ruis.	1.3
	10

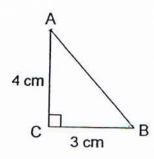
9. Sean had twice as much money as his brother, George. After George spent \$20 and Sean received another \$50 from their mother, Sean had five times as much money as George. How much money did Sean have at first?

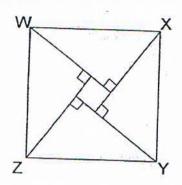
Ans: \_\_\_\_\_[3]

			bei of addits became
7			
		Ans:	[3]
- 1	noney to Adam's mo	noney to Bernard's money is 3:5.  ney is 1:6. If Bernard had \$90 monared by the three shildren	The ratio of Carl's re than Carl, find the
	noney to Adam's mo	noney to Bernard's money is 3 : 5. ney is 1 : 6. If Bernard had \$90 monared by the three children.	The ratio of Carl's are than Carl, find the
- 1	noney to Adam's mo	nev is 1: b. If Remard had \$00 mg	The ratio of Carl's re than Carl, find the
	noney to Adam's mo	nev is 1: b. If Remard had \$00 mg	The ratio of Carl's are than Carl, find the
	noney to Adam's mo	nev is 1: b. If Remard had \$00 mg	The ratio of Carl's re than Carl, find the
- 1	noney to Adam's mo	nev is 1: b. If Remard had \$00 mg	The ratio of Carl's re than Carl, find the
- 1	noney to Adam's mo	nev is 1: b. If Remard had \$00 mg	The ratio of Carl's re than Carl, find the
- 1	noney to Adam's mo	nev is 1: b. If Remard had \$00 mg	The ratio of Carl's re than Carl, find the
- 1	noney to Adam's mo	nev is 1: b. If Remard had \$00 mg	The ratio of Carl's are than Carl, find the
- 1	noney to Adam's mo	nev is 1: b. If Remard had \$00 mg	The ratio of Carl's re than Carl, find the
	noney to Adam's mo	nev is 1: b. If Remard had \$00 mg	The ratio of Carl's are than Carl, find the

 ABC is a right angled triangle. 4 such identical triangles are used to form the square WXYZ. Find the perimeter of the square WXYZ.

Do not in this s





Ans:	[4]

13	THE WOULD BE SHOP	some money to buy t of \$2.00. If he we ranges can he buy	re to hilly 3 oran	acc ho would	2 oranges, have \$2.50	Do not in this
*						
				¥		
		e	Ånor			
	(4004)		Ans:		4]	
			(6	So to the next p	page)	

14. Aaron and Ben shared a sum of \$200. Aaron gave  $\frac{3}{5}$  of what he has to Ben. Ben later gave  $\frac{1}{5}$  of what he has back to Aaron. They ended up with equal amount of money. How much did Aaron have at first?

Do not win this s

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

5.	There are some coins in a box. $\frac{1}{8}$ of them are 10¢ coins, $\frac{1}{4}$ of them are 20¢
	coins, $\frac{3}{8}$ of them are 50¢ coins and the rest are \$1 coins. The total value of
-	the coins is \$800.
	(a) How many 50¢ coins are there?
	(b) What is the total value of the 10¢ and 20¢ coins?
	· · · · · · · · · · · · · · · · · · ·

Ans:		[3]
Ans:	b)	[2]
*/#	(e) 1 (e)	(Co to the next way)

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Do not win this sp

 Grey and white triangular tiles are used to form a sequence of patterns. The first four patterns are shown below.

Do not in this









Pattern 1

Pattern 2

Pattern 3

Pattern 4

(a) Fill in the number of grey and white triangular tiles for pattern number 5 in the table provided below.

Pattern Number	Grey triangular tiles	White triangular tiles
1	0	1
2	1	2
3	2	3
4	3	4
5		

[2]

(b) In which pattern number will there be a total of 59 triangular tiles?

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

17.	Vanessa earned \$0.80 for every box of cookies that she sold. She will also received a commission of \$17 for every 30 boxes of cookies sold. How many boxes of cookies did she sell if she earned a total of \$258?	Do in th
163		
	Ans:	OF:
	Ans:[5]	
		211.7
	Go to the next page)	

18. A bag contains some red, blue, green and white marbles. 40% of the marbles are red. The number of blue marbles is  $\frac{3}{5}$  the number of red marbles. The ratio of the number of green marbles to white marbles is 3:2. There were 460 more red marbles than green marbles. How many marbles are there in the bag?

Ans:	
Alis.	[5]

- End of Paper 2 - .



# Answer Ke

#### **EXAM PAPER 2011**

SCHOOL: CATHOLIC HIGH

SUBJECT: PRIMARY 5 MATHEAMATICS

TERM : SA2

**\$144 + \$240 = \$384** 

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13			
3	2_	3	4	3	1_	4	2	1_	3	3	2	2	3	2	
16)120349		1	17)27 18)0.081,		18/10	00, 0.8	3 <b>01</b> , 8		19)24cm <sub>2</sub>						
20)1.075km		5km	21)51°		22)4.8kg			23)7/50			24)21:50				
25	25)74/5		2	6)2сп	n	27)18 seco		onds	28)51		29)10 years				
30	)40														
Paper 2 1)5p $\rightarrow$ \$9.65 1p $\rightarrow$ \$9.65 $\div$ 5 = \$1.93 95p $\rightarrow$ \$1.93 x 95 = \$183.35 8) $\angle$ XQR $\rightarrow$ 180° -49° = 131° 9)100															
2)100%>\$30 1%>30÷100 = 0.3								10)30							
$20\%> 0.3 \times 20 = 6$ Price $\rightarrow 30 - 6 = $24$					11)9u→\$90 1u→\$10 17u→\$170										
3):	1:4:2								·		F.				
4)5/48								12)½ x 4 x 3 = 6 4 x 6 = 24 1 x 1 = 1							
5)1 row $\rightarrow$ 1 + 6 + 8 = 15 chairs 11 rows $\rightarrow$ 15 x 11 = 165 chair								Area of square = $24 + 1 = 25$ cm <sup>2</sup> Side = $\sqrt{25}$ = $5$ cm Perimeter = $5 \times 4 = 20$ cm						5cm2	
-		26cm	2										•		
1u→31.5 9/5→31.5 x 9 = 283.5cm <sub>2</sub>								oran 1 oran 3 oran	īges→	\$0.50	)				
1	Week	•	7.50			=\$24 9 x 8		-		F <del>→</del> \$1.	50 +		= \$4		