

CATHOLIC HIGH SCHOOL

MID - YEAR EXAMINATION 2013

MATHEMATICS

PRIMARY 5

PAPER 1

(BOOKLET A)

Name : _____

Class: Primary 5

Date: 20 May 2013

15 questions

20 marks

Total Time for Booklets A and B: 50 min

Booklet A : Page 1 to 5

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.

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

	(1)	tens	
	(2)	hundreds	
	(3)	thousands	
	(4)	ten thousands	
2.	60 tr	housands + 6 thousands + 6 ones =	
	(1)	60 606	
	(2)	66 006	
	(3)	606 006	
	(4)	606 606	
			<u>.</u>

- (1) 755 268
- (2) 756 268
- (3) 756 628
- (4) 756 826

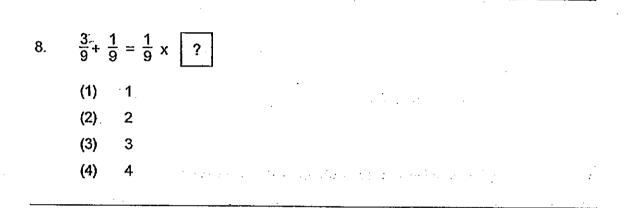
(Go on to the next page)

4. The diagram shows part of a scale.

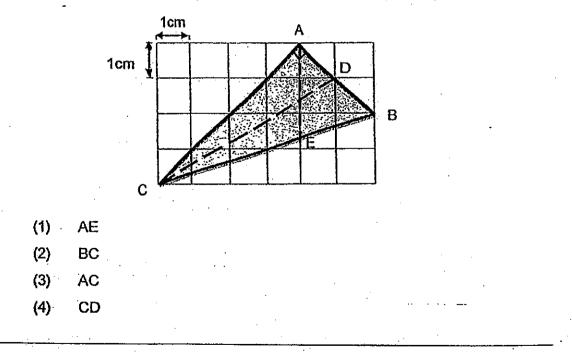
· · ·	Whic	h one of the following is closest t	o the reading indic	cated by the arrow?
•	(1)	3.2		
	(2)	3.3		
	(3)	3.4		
	(4)	3.6		
5.	Whic	h one of the following has the sa	me value as $7\frac{1}{4}$?	
	(1)	7.14	4	
-	(2)	7.15		
	(3)	7.25		
	(4)	7.41		
6.	Eddy	had $1\frac{3}{5}$ m of rope. He used $\frac{1}{3}$ m	of the rope. How	much rope was lef
	(1)	1 <u>4</u> m		
	(2)	$1\frac{2}{3}$ m	•	
-	(3)	$1\frac{1}{2}$ m		
: •	(4)	1 <u>14</u> m	• •	
· .				

-2-

- 7. $\frac{2}{5}$ of a class were boys and the rest were girls. Find the ratio of the number of boys to the number of girls in the class.
 - (1) 2:3
 - (2) 2:5 a second s
 - (3) 3:2
 - (4) 3:5



9. Given that the base of triangle ABC is side AB, identify its height.



(Go on to the next page)

10.	Find	the product of $\frac{3}{8}$ and $\frac{2}{9}$.
·	(1)	$\frac{1}{12}$
- 	(2)	<u>5</u> 17
	(3)	1 <u>11</u> 1 <u>16</u>
	(4)	<u>43</u> 72

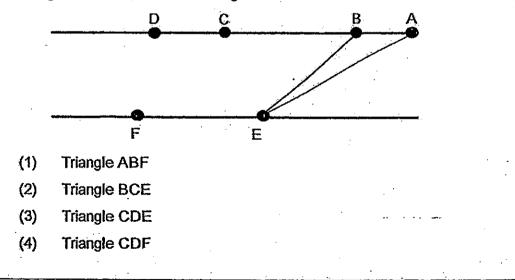
11. Mary has thrice as many stamps as Betty and twice as many stamps as Sam. What is the ratio of the number of stamps Sam has to the total number of stamps Mary and Betty has?

- (1) 3:8
- (2) 3:11
- (3) 8:3

(4) 11:3

. •

12. Which 3 of the following points, A, B, C, D, E and F would form another triangle of the same area as triangle ABE?



(Go on to the next page)

-4-

the r	atio 2 : 3. What was the leng	Jack and Shawn shared the longer piece the of the rope that Jack received?
(1)	20 m	
(2)	12 m	
(3)	8 m	
(4)	4 m	

 $\frac{2}{3}$ of the area of a square is the same as $\frac{1}{2}$ of the area of a circle. Express the area of the square as a fraction of the area of the circle.

(1)	<u>2</u> 3			
(2)	<u>3</u> 4			
(3)	$1\frac{1}{2}$			
(4)	$1\frac{1}{3}$			
	·····	 · ·	. <u>.</u>	

15. Joshua mixed some syrup with water to make orange juice. The ratio of the amount of syrup used to the amount of water used was 2 :3. He used 8 ℓ of syrup. How many litres of the orange juice did Joshua prepare?

(1)	20 l
(2)	12 l

14.

- (3) 8 L.
- (4) 4 l

End of Booklet A

(Go on to Booklet B)

- 5 -



CATHOLIC HIGH SCHOOL

MID - YEAR EXAMINATION 2013

MATHEMATICS

PRIMARY 5

PAPER 1

(BOOKLET B)

Name :_____ (

Class: Primary 5 _____

Date: 20 May 2013

Booklet A20Booklet B20Total40

15 questions

20 marks

Total Time for Booklets A and B: 50 min

Booklet B : Page 6 to 12

INSTRUCTIONS TO CANDIDATES

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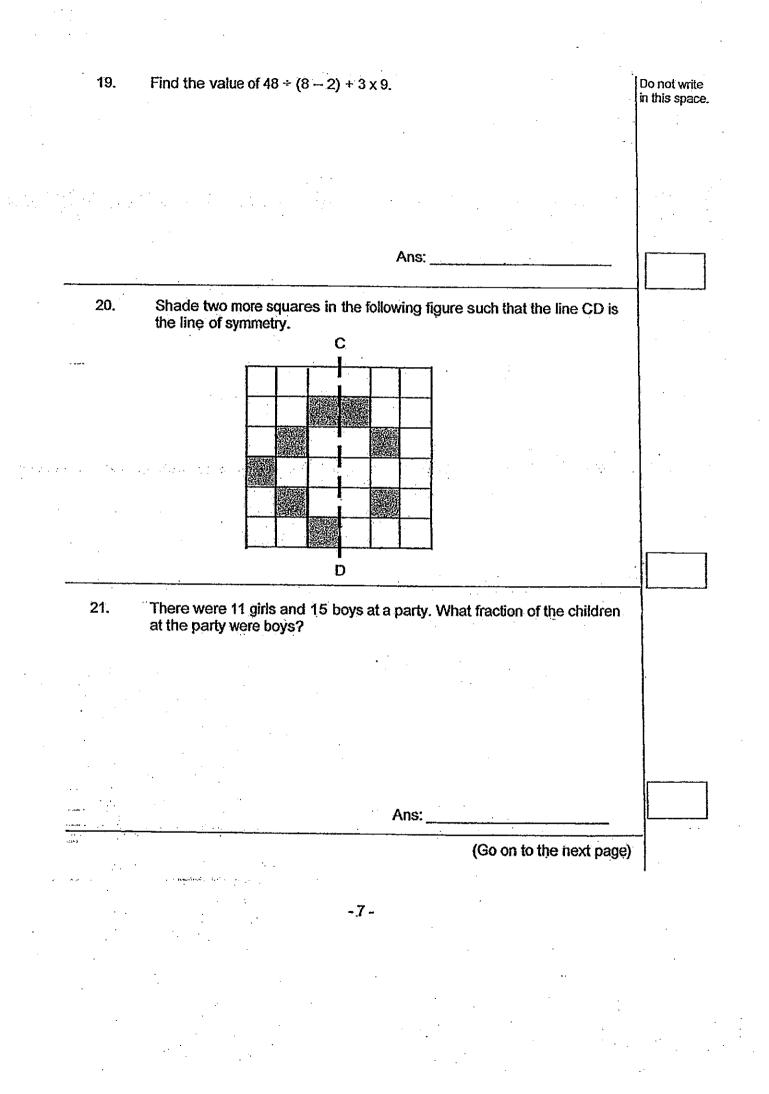
Follow all instructions carefully.

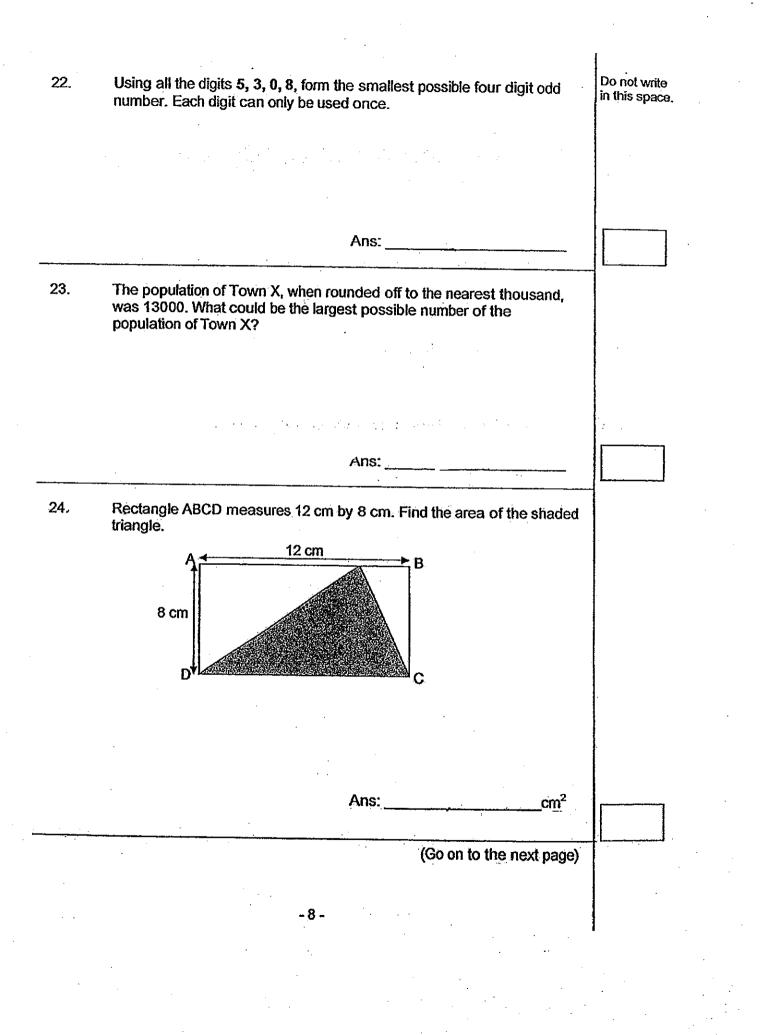
Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are not allowed to use a calculator.

Duestions 16 to 25 carly 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. Do not write in this space. (10 marks) (10 marks) 16. Write the following in figures. (10 marks) 17. Express 6.76 as a mixed number in the simplest form.			· · ·	· .
All figures are not drawn to scale. (10 marks) 16. Write the following in figures. Two million, six hundred thousand and forty-nine Ans: 17. Express 6.75 as a mixed number in the simplest form. 18. Find the missing number in the box. 10: 2 = 2 : 3 Ans: (Co on to the next page)	·			•
16. Write the following in figures. Two million, six hundred thousand and forly-nine Ans: 17. Express 6.75 as a mixed number in the simplest form. 17. Express 6.75 as a mixed number in the simplest form. 18. Find the missing number in the box. 10: 2 = ? ? Ans:		- roi quest	Uns which require units, give your answers in the units stated	Do not write in this space.
Two million, six hundred thousand and forty-nine Ans: 17. Express 6.75 as a mixed number in the simplest form. 17. Express 6.75 as a mixed number in the simplest form. 18. Find the missing number in the box. 10:2 = ? :3 Ans: (Go on to the next page)		<u></u>	(10 marks)	
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Ans: 18. Find the missing number in the box. 10:2 = ?:3 Ans: (Go on to the next page)		17.	Express 6.75 as a mixed number in the simplest form	
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18. Find the missing number in the box. 10:2 = ?:3 Ans: (Go on to the next page)			Ans	
10 : 2 = ? : 3 <u>Ans:</u> (Go on to the next page)				
10 : 2 = ? : 3 Ans: (Go on to the next page)		18.	Find the missing number in the box.	
Ans:(Go on to the next page)				
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-6-			(Go on to the next page)	
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-6.				
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Dylan jumped a distance of $1\frac{3}{4}$ m in a competition. Gabriel's jump was twice as far as Dylan. How far did Gabriel jump? Express your answer as a mixed number in the simplest form. .

Do not write in this space.

Ans: m.

(Go on to the next page)

Total marks for questions 16 to 25

SCORE (Q16-25):

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For que	ons 26 to 30 carry 2 marks each. Show your working clearly in the space d for each question and write your answers in the spaces provided. estions which require units, give your answers in the units stated.	Do not write in this space.
Express	s your answer in simplest form. (10 marks)	
26.	Express $\frac{5}{9}$ as a decimal, correct to 2 decimal places.	
	· · · ·	
	Ans:	
27.	Ben and Sam shared a pizza. Ben ate $\frac{1}{3}$ of the pizza and gave $\frac{1}{4}$ of the	
	remainder to Sam. What fraction of the pizza was left? Express your answer in the simplest form.	
	•	
	Ans:	
	· · · · · · · · · · · · · · · · · · ·	

28. Zachary has more marbles than Samuel. The ratio of the sum of their Do not write marbles to the difference in the number of their marbles is 11:3. Find in this space. the ratio of Zachary's number of marbles to Samuel's number of marbles. Ans: Rectangle ABCD has an area 18 m² 29. If AD is $\frac{1}{3}$ of AF, find the area of rectangle ABEF. В A D С F E m² Ans: (Go on to the next page)

30. How many more circles must be shaded so that the ratio of the number Do not write in this space of unshaded circles to the total number of circles is 1:3? Ans: End of Paper 1 Total marks for questions 26 to 30 SCORE (Q26-30):



CATHOLIC HIGH SCHOOL

MID - YEAR EXAMINATION 2013

MATHEMATICS

PRIMARY 5

PAPER 2

Name :()		
Class: Primary 5	Paper 1 Booklet A	20
Date: 20 May 2013	Paper 1 Booklet B	20
Duration: 1 h 40 min	Paper 2	60
Parent's Signature:	Total Marks	100

There are 13 pages in this booklet.

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. For questions which require units, give your answers in the units stated.

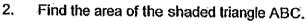
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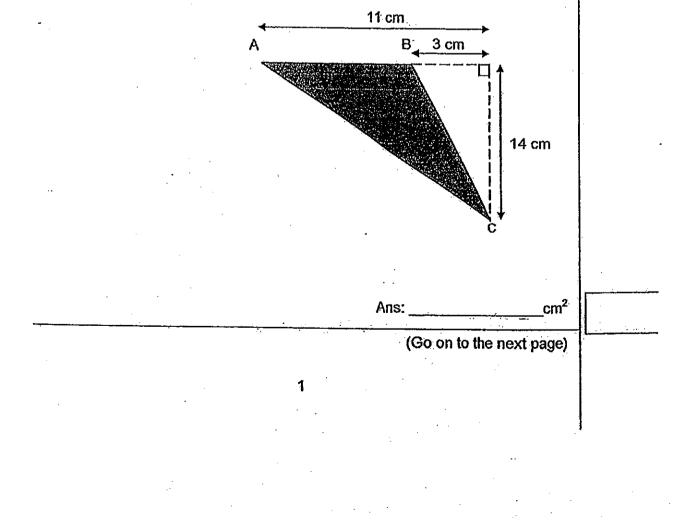
(10 marks)

kg

1. Ernest bought 53 kg of rice. He packed the rice equally into 5 bags. What is the mass of each bag of rice?

Round off your answer to the nearest whole number.





Ans:

						•
	•					
	· · · ·	-		1		
3.	Sam had $\frac{3}{4}$ f of water. He po cups could he fill?	oured the water into (cups of $\frac{1}{8}$ ℓ each. How	w many h	o not write this space.	
	• •					
•						
					·	
						2
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			A 15 15	Г		
_			Ans:][
4.	Ray took $1\frac{1}{2}$ h to finish a man How long did Ivan take to fini Express your answer as a mi	sh the marathon?		۲ ۵ میں	<u>, , , , , , , , , , , , , , , , , , , </u>	-
4.	How long did Ivan take to fini	sh the marathon?		۲ میں <u>میں میں اور اور اور اور اور اور اور اور اور اور</u>	<u>, , , , , , , , , , , , , , , , , , , </u>	-
4.	How long did Ivan take to fini	sh the marathon?		الا مح <u>د من من</u>	<u>.</u>	
4.	How long did Ivan take to fini	sh the marathon?		الم المحمد ا		
4.	How long did Ivan take to fini	sh the marathon?		· · · · · · · · · · · · · · · · · · ·		
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4.	How long did Ivan take to fini	sh the marathon?		۲ م ر میں	- <u>·</u>	
4.	How long did Ivan take to fini	sh the marathon?				-
4.	How long did Ivan take to fini	sh the marathon?			· · ·	-
4.	How long did Ivan take to fini	sh the marathon?		1 1		- - -
	How long did Ivan take to fini	sh the marathon?		h		-
4.	How long did Ivan take to fini	sh the marathon?	nplest form. Ans:	h		-
	How long did Ivan take to fini	sh the marathon?	nplest form.	h		-
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	How long did Ivan take to fini	sh the marathon? ixed number in the sin	nplest form. Ans:	h		
	How long did Ivan take to fini	sh the marathon? ixed number in the sin	nplest form. Ans:	h		

	•	
	-	
5.	Leslie has 240 stamps. He has $\frac{3}{4}$ as many stamps as Steven. How many stamps do they have altogether?	Do not write in this space.
•		
	Ans:	
	(Go on to the next page)	-
	3	

	For questions 6 to 18, show y question and write your answ available is shown in brackets	ers in the spaces pr	ovided. The nu	imber of marks	Do not write in this space	
6.	Peggy has twice as many e as Peggy. Debbie has 40 e children have altogether?	rasers as John. Del rasers more than Jo	bbie has thrice hn. How many	as many erase r erasers do the	#rs 3	
		• •				
				•		
		, ·	·			
·	· · · ·			· .		
•						 -
· ·			Ans:		[3]	
7.	In a bag, there were some to After 42 white stickers were black stickers to the number white stickers in the bag at the	removed from the b	ers in the ratio	4 : 7. f the number of		<u></u>
7.	After 42 white stickers were black stickers to the number	removed from the b	ers in the ratio	4 : 7. f the number of		· · · · · · · · · · · · · · · · · · ·
7.	After 42 white stickers were black stickers to the number	removed from the b	ers in the ratio	4 : 7. f the number of		
7.	After 42 white stickers were black stickers to the number	removed from the b	ers in the ratio	4 : 7. f the number of		<u>.</u>
7.	After 42 white stickers were black stickers to the number	removed from the b	kers in the ratio bag, the ratio of ecame 16 : 7. F	4 : 7. f the number of	rof	
7.	After 42 white stickers were black stickers to the number	removed from the b	ers in the ratio	4 : 7. f the number of ind the number		
7.	After 42 white stickers were black stickers to the number	removed from the b	kers in the ratio bag, the ratio of ecame 16 : 7. F	4 : 7. f the number of	r of [3]	
7.	After 42 white stickers were black stickers to the number	removed from the b	kers in the ratio bag, the ratio of ecame 16 : 7. F	4 : 7. f the number of ind the number	r of [3]	

~						•	
8.	Joshua and Nicolas had 50 an away an equal number of car How many cards did they give	TOS. NICOlas h	ince as man	each of th y cards as	em gave Joshua.	Do not write in this space.	
							. •
			Ans:		[3]	 	
					[v] .		
	thrice as much as a pen. How		lie cost?				
	· · ·		ile COSt?		• •		
			ile COSt <i>?</i>				
			ile COSt <i>i</i>		· ·		
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_		5	Ans:	the next p			
			Ans:	the next p			

10. The table below shows the price of roses on a normal day and on Valentine's Day.

Normal Day	Valentine's Day
\$1.20	\$2.80

Mary bought roses on a normal day and on Valentine's Day.

- a) How much more does Mary need to pay for 1 dozen stalks of roses on Valentine's Day than on a normal day?
- b) Mary has \$50 and she decides to spend it all on roses, what is the maximum number of stalks of roses that she can buy on a normal day?

b)

[2]

[1]

Ans: a)

11. Henry and Ryan had the same number of marbles at first. After Henry gave away 12 marbles and Ryan gave away 36 marbles, Henry had 4 times as many marbles as Ryan. How many marbles did Ryan have at first?

6

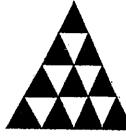
Ans: _____ [3]

(Go on to the next page)

Do not write in this space. 12. Black and white triangles are used to form a sequence of patterns. The first three patterns are shown below.

Do not write in this space.





Pattern 1

Pattern 2

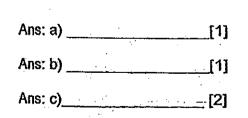
Pattern 3

Pattern Number	Number of black triangles	Number of white triangles	Total number of triangles
1 .	3	1	4
2	6	3	9
3	10	6	16

a)

b)

Find the number of white triangles in Pattern 4. Find the number of black triangles in Pattern 4. In which pattern number will there be a total of 144 triangles? c)



(Go to the next page)

13. The cost of a birthday present was shared between Benjamin and Christopher. At first, Benjamin paid $\frac{2}{3}$ of what Christopher paid. When Benjamin paid \$50 more, he ended up paying $\frac{4}{5}$ of what Christopher paid. How much was the cost of the present?

Do not write in this space.

[4]

Ans:

(Go on to the next page)

14. Shaun spent \$360 of his pocket money on a bicycle, $\frac{2}{3}$ of the remainder on food, and saved the rest. Given that he saved $\frac{1}{5}$ of his pocket money, how much was his pocket money?

Do not write in this space.

 		Ans:	[4]
		(Go on to the ne	xt page)
	9		
		• • • • • •	. ·
		• •	.

15. Sarah packed some chocolates in bags of 8 and some sweets in bags of 4. She sold each bag of chocolates at \$2 and each bag of sweets at \$5.50. She sold 8 times as many bags of sweets as chocolates and collected a total of \$3128 from the sale of sweets and chocolates. How many sweets and chocolates did she sell in all?

Do not write in this space.

Ans: _____ [5] [(Go on to the next page)

16. Alex, Ben and Caleb had some stamps. Alex had 90 stamps more than Ben, and Ben had 10 stamps more than Caleb. After Alex had given Ben 95 of his stamps and Caleb bought some stamps, Alex and Caleb had the same number of stamps while Ben had thrice as much as either of them.

a) How many stamps did Caleb at first?

b) How many stamps did they have altogether at first?

Do not write in this space.

	Ans: a)	[3]
	Ans: b)	[2]
	(Go on to the	next page)
11	•	

17. Mr Lee had a sum of money. On Monday, he spent $\frac{1}{5}$ of his money and then lost a \$2 note. On Tuesday, he spent $\frac{1}{3}$ of his remaining money on 3 identical bags of rice. On Wednesday, he bought another 4 such bags of rice. He had \$21.60 left in the end. Find the sum of money he had at first. Do not write in this space.

[5]

(Go on to the next page)

12

Ans:

18. At a carnival, the ratio of the number of males to the number of females was 6 : 5. There were twice as many girls as women. There were $\frac{1}{2}$ as many boys as men. There were 80 more girls than boys.

Do not write in this space.

a) How many people were there at the carnival?

b) After some time, 90 men left the carnival. How many women must join the carnival so that there is an equal number of men and women in the end?



[2]

Ans: b)

End of Paper 2

EXAM PAPER 2013

SCHOOL :	CATHOLIC HIGH PRIMARY SCHOOL
LEVEL	PRIMARY 5
SUBJECT :	MATHEMATICS
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28. 7:4			•			
29.54		·				
30.4						

1

Paper 2

1. 53÷5=10.6 10.6 round off to 11kg

2.	1	1-3	3=	8
----	---	-----	----	---

¹/₂ x 8 x14 =56

3. $\frac{3}{4} = \frac{6}{8}$ 6/8 ÷ 1/8 = 6

 $\frac{1}{2} = 1 \frac{2}{4}$ $\frac{1}{4} = 4 = \frac{3}{8}$ $\frac{3}{8} \times 3 = 1 \frac{1}{8}$

5. 240÷3=80 80x4=320 320+240=560

- 6. 40÷5=8 8x9=72
- 7. B:W 4:7 14:28
 - 28-7=21 21u---42 1u---2 28u----56
- 8. 2u --- 40 1u---20 50-20=30 30x2=60
- 9. 1F + 1N = 10 1F + 1P = 6 1N - 1P = 4 2u - - 41u - - 2

1P --- 2 6-2=4

10. A. 1.20x12=14.40 2.8x12=33.6 33.6-14.4=19.20

and the second second second

B, 60÷1.20=46.667 She can buy 46 roses

11. 36-12=24 24÷3=8 8+36=44

- 12. A. 10 B, 15 C. T --- 144
 - 12x12=144 12-1=11
- 13. 2u --- 50 1u --- 25 45u --- 1125
- 14. 360÷2=180 180x5=900
- 15. 3128÷46=68 68x8x4=2176 68x1x8=544 2176+544=2720
- 16. A. 2u --- 90+5+5=100 1u --- 50 50-5=45

3

B. 5u --- 250 250-5=245

17. 21.60÷2=10.80

10.80x9=97.20 97.20+2=99.20 99.20÷4=24.80 24.80x5=124

18. A. M : F

6:5 18:15

B:M 6:12 10:5

10u-6u = 4u 4u --- 80 1u ---20

33u --- 660

B. Man : 12x20=2240 Women : 5x20=100 240-90=150 150-100=50