Name:	(23 August 2016	
Class: P 6				



CATHOLIC HIGH SCHOOL

PRELIMINARY EXAMINATION 2

PRIMARY SIX

MATHEMATICS

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.

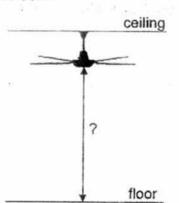
Shade your answers in the Optical Answer Sheet (OAS) provided.

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

This booklet consists of 7 printed pages.

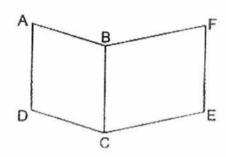
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. All diagrams are not drawn to scale.

- Round off 60.384 to the nearest tenth.
 - (1) 60
 - (2) 60.3
 - (3) 60.4
 - (4) 60.38
- Which one of the following numbers is the smallest?
 - (1) 0.503
 - (2) 0.053
 - (3) 0.305
 - (4) 0.035
- Which one of the following is most likely to be the height measured vertically from the floor to a ceiling fan in a classroom?



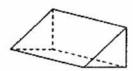
- (1) 25 cm
- (2) 25 m
- (3) 2.5 cm
- (4) 2.5 m

- 4. What is the value of 40 ÷ 4000?
 - (1) 100
 - (2) 10
 - (3) 0.01
 - (4) 0.001
- 5. In the figure, ABCD and BCEF are parallelograms. Which one of the following pairs of lines is parallel to each other?



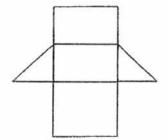
- (1) AB and BC
- (2) AB and EF
- (3) AD and DC
- (4) AD and EF
- 6. Express 1.6 as a percentage.
 - (1) 160%
 - (2) 16%
 - (3) 0.16%
 - (4) 0.016%

7. The figure below shows a solid.

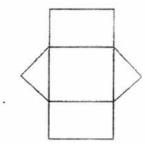


Which one of the following is a net of the solid?

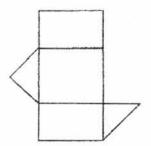
(1)



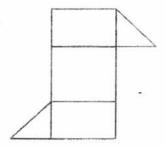
(2)



(3)

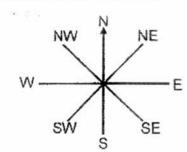


(4)



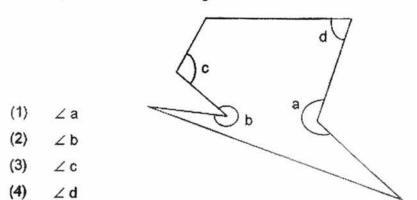
8. The figure below shows an 8-point compass.

Wendy was facing north-west (NW) at first. She then made a $\frac{3}{4}$ - turn in an anti-clockwise direction. Which direction is she facing now?



- (1) NE
- (2) SW
- (3) E
- (4) S

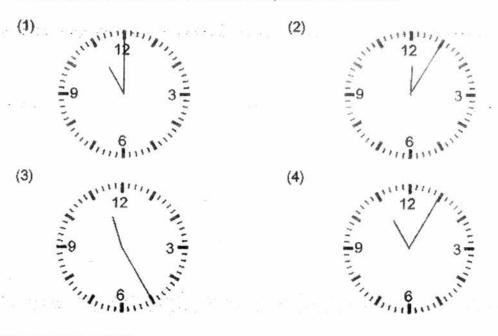
9. In the figure below, which angle is more than 180° and less than 270°?



10. The clock below showed the time Ralph began revising for his test.



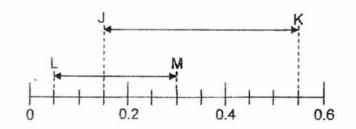
He took 130 minutes to complete his revision. Which one of the following shows the time when he completed his revision?



11. Which one of the following is nearest to 1?

- (1) $\frac{5}{6}$
- (2) $\frac{6}{7}$
- (3) $1\frac{1}{8}$
- (4) $1\frac{2}{5}$

12. In the number line below, how much longer is JK than LM?



- (1) 0.15
- (2) 0.20
- (3) 0.25
- (4) 0.35

Pauline had only the following coins in her wallet.





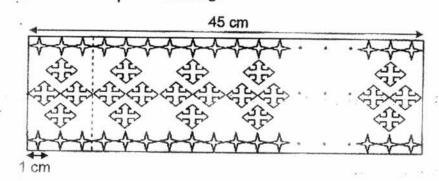






She took three coins from her wallet and dropped them into a donation box. Which one of the following could not be the amount donated?

- (1) 35¢
- (2) 80¢
- (3) \$1.15
- (4) \$1.65
- 14. A piece of ribbon 45 cm long has identical → and ⇒ printed on it. They are printed in a repeated pattern as shown below.
 The width of each → is 1 cm long.



How many (3) are there in the piece of ribbon?

- (1) 15
- (2) 30
- (3) 60
- (4) 135

- 15. Mr Tan had some stamps. After giving away 48 of them on Monday and $\frac{2}{9}$ of the remainder on Tuesday, he was left with $\frac{1}{3}$ of his stamps. How many stamps did he give away?
 - (1) 21
 - (2) 36
 - (3) 56
 - (4) 72

END OF BOOKLET A

Name:	()	23 August 2016
Class: P 6			



PRELIMINARY EXAMINATION 2

PRIMARY SIX

MATHEMATICS

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 7 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. (10 marks)					
16.	Find the value of 3 ÷ 7. Give your answer correct to 2 decimal places.				
	Ans:				
17.	Write down the common factors of 12 and 28.				
(40) (8)	Ans:				
18.	Find the value of 0.37 × 80.				
	Ans:				

19.	There are 60 bananas. 24 of them are ripe while the rest are rotten. What is the ratio of the number of rotten bananas to the number of ripe bananas? Give your answer in the simplest form.		
-	Ans:		
20.	Mrs Tan bought 6 kg of rice. She cooked 200g of rice each day. How many days did the rice last?		
21.	Ans: In the figure below, AB and CD are straight lines. Find ∠ p.		
	A 36° B		

22. Find the value of $\frac{5}{6}$ ÷ 10.

Give your answer as a fraction in the simplest form.

Do not write in this space.

Ans:

23. The total cost of a cupcake and a pie is \$8.50. The cost of the cupcake is $\frac{2}{3}$ the cost of the pie. What is the cost of the cupcake?

Ans: \$

24.	At a supermarket, a customer is given 5 packets of tissue paper free for every \$20 spent. Anne spent \$66 at the supermarket. How many packets of tissue paper would she get?	Do not write in this space.
25.	Ans: Last year, Ravi's mass was 50 kg. This year, his mass increases by	
	20%. What is his mass this year?	
P25 25X 1	င္ သက္က ၈၈ - ခုိစ္စိန္းခ်စ္ရ ျပည္ခ က ေနာက္ခိုက္ခု က	
» · · ·	Ans:kg	
***************************************	Total marks for questions 16 to 25	

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. (10 marks)					
26.	Find the value of $\frac{8m}{3} - 5 + m$ when $m = 6$.				
27.	Andy had 28 more stamps than Bradley at first. Bradley gave 12 of his stamps to Andy. Andy now has 3 times as many stamps as Bradley. How many stamps did Bradley have at first?				
	த் நிருக் நேற நடக்கது இரைகள் இதி குறுக்க கூடி செழுந்தின்.	E			
	±ే అద్ ^మ ్త				

28.	The figure shows a rectangular glass box partly filled with unit cubes. How many more unit cubes are needed to completely fill the box?	Do not writ in this space
	9	
	Ans:	
29.	A bag can contain 24 apples or 36 oranges at most. 27 oranges and some apples are put into one such bag. What is the greatest possible number of apples in the bag?	,
1 11	rugi ar ang si angang sung ng u ng banasan i pad	E 80
		st.
	N	

30.	Figure 1 is a square made up of four identical shapes as shown in Figure 2.	no not write in this space.
	Figure 1 Figure 2	
	What is the area of the shape in Figure 2?	
	€	
a, filog	Ans:cm²	Sugar a
	Total marks for questions 26 to 30	V. 100
	END OF BOOKLET B END OF PAPER 1	

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Name :	()	23 August 2016
Class : P 6			



CATHOLIC HIGH SCHOOL PRELIMINARY EXAMINATION 2

PRIMARY SIX

MATHEMATICS

PAPER 2

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

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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.

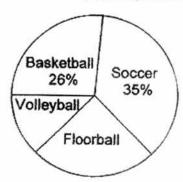
This booklet consists of 16 printed pages.

answ	stions 1 to 5 carry 2 marks each. Show your working clearly and write your ters in the spaces provided. For questions which require units, give your ters in the units stated. All diagrams are not drawn to scale. (10 marks)	Do not wri
1.	In an archery competition, 3 players scored an average of 57 points. The total score of the first and second players was 96. What was the score of the third player?	
	.;-	
	; -	
	Ans:	
2.	Kelvin is 160 cm tall. Danny is y cm taller than Kelvin. Melvyn is 3 cm shorter than Danny. What is Melvyn's height? Give your answer in terms of y in the simplest form.	
	-	
	And the state of t	

Use the information below to answer questions 3 and 4

Do not write in this space.

The pie chart represents the number of participants for each type of sport. Floorball had twice as many participants as volleyball.



3. What percentage of all the participants took part in floorball?

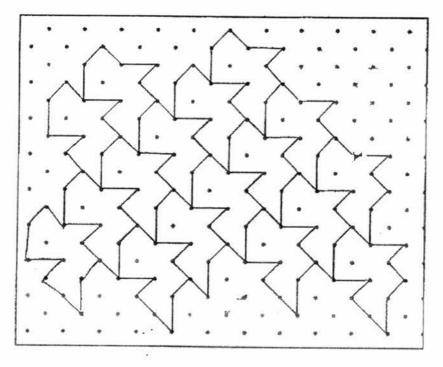
Ans. %

4. There were 36 more participants for soccer than basketball. What was the total number of participants for all the 4 sports?

Ans: _____

The pattern in the box shows part of a tessellation.
 Extend the tessellation by drawing two more unit shapes in the space provided in the box.

Do not write in this space.



For questions 6 to 18, show your working 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.

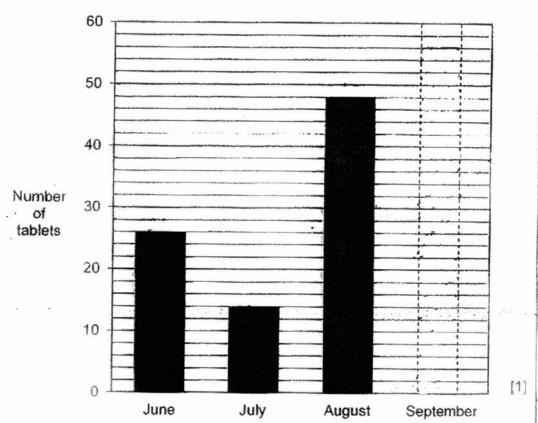
All diagrams are not drawn to scale.

(50 marks)

Do not write

in this space.

The bar graph below shows the number of tablets sold in 4 months.
 The bar that shows the number of tablets sold in September has not been drawn.



The number of tablets sold in August was $\frac{1}{3}$ of the total number of tablets sold in the 4 months.

- (a) What was the total number of tablets sold in the 4 months?
- (b) Draw the bar that shows the number of tablets sold in the month of September in the graph.

Ans:	(a)	 [2]

7.	At a sandwich shop, the price of a chicken sandwich was \$5.60 and the price of a fish sandwich was \$6.40. Mrs Wong bought 85 chicken and fish sandwiches and paid \$496.80 for them. How many fish sandwiches did Mrs Wong buy?	Do not write in this space.
	nie a la filozofickowa. Najponie la eli włólnika, twog j	* 7 1. 7

Jim and Ken shared the total cost of a lunch. Jim paid \$12 more than $\frac{3}{7}$ Do not write in this space. 8. of the cost of the lunch. Ken paid \$24. How much did the lunch cost?

9. The figure shown below is made up of a square of sides 2 cm and 3 quarter circles of different radii. What is the perimeter of the shaded part of the figure? Give your answer in terms of π .

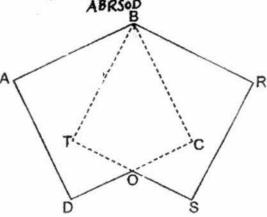
Do not write in this space.



Ans:	[3]

The figure ABRSOD shows two identical squares ABCD and BRST of sides 18 cm overlapping each other. O is half-way between CD and ST. What is the area of the figure ABROOD?

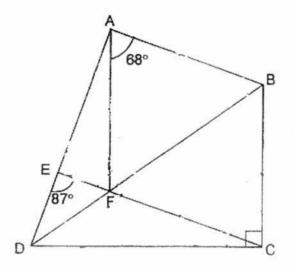
ABROOD? 10.



In the figure, ABCF is a rhombus and BCD is a right-angled triangle. EFC and AED are straight lines. ∠FAB = 68° and ∠DEF = 87°.

Do not write in this space.

- (a) Find ∠BDC.
- (b) Find ∠EAF.



Ans: (a) [2]

(b)_____[2]

12.	Peter bought a pair of sport shoes for \$135 after a discount of 25%.	Do not write
	(a) What was the price of the pair of sport shoes before discount?	in this space
	(b) He paid \$44 for a basketball. The total discount for the pair of sport shoes and the basketball was \$51. What was the percentage discount given for the basketball?	
	•	
	garan o altre agrico e la paper de poser de la subsege de la sego e la	anta di estima
		9 % %
	save ya assi ili sa	
	Ans: (a)[2]	

13. Eddle and Faizal started running from the same place in opposite Do not write directions along a straight path. Eddie ran at a speed of 145 m/min and in this space. Faizal ran at a speed that was 35 m/min slower than Eddie. Both ran for the same length of time and dld not change their speeds throughout. At the end of the run, Eddie had ran a distance of 525 m more than Faizal. How far apart were Eddie and Faizal at the end of their run?

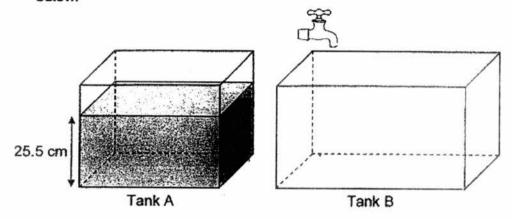
f41

Mr Lee baked the same number of egg tarts, cheese tarts and fruit tarts. 14. After 61 fruit tarts and some egg tarts and cheese tarts were eaten, there were altogether 85 tarts left. There were three times as many egg tarts as cheese tarts left. The number of fruit tarts left was 5 fewer than the number of cheese tarts left. How many egg tarts were eaten?

Do not write in this space.

15. Tank A and Tank B were two rectangular tanks. The base area of Tank A was 1800 cm² while that of Tank B was 2400 cm². At first, Tank A contained water to a height of 25.5 cm and Tank B was empty as shown below.

Do not write in this space.



Then, water flowed from a tap into Tank B at a rate of 3 litres per minute for 12 minutes.

- (a) What was the volume of the water in Tank B at the end of the 12 minutes?
- (b) Some water was then transferred from Tank A to Tank B until the height of the water level was the same in both tanks. What was the new height of the water level in both tanks?

Ans: (a)	[1]	
(b)	[4]	

16.	Alvin has some 10¢, 20¢ and 50¢ coins in a money box. The ratio of the number of 10¢ coins to that of 20¢ coins is 1:2. The ratio of the number of 50¢ coins to the total number of 10¢ and 20¢ coins is 3:4. The total value of the 50¢ coins is \$16.40 more than the total value of the 10¢ coins. How much money does Alvin have in his money box?	Do not write in this space.
	*	
	-	
ereger e	The Alleria Spagners of the second of the se	vetta. Y
75		18,20 × 18

17.	A tin box filled with 50 identical glass marbles weighs 1.1 kg. The same tin box when filled with 20 identical steel marbles weighs 1.3 kg. The mass of each glass marble is 39.7 g less than that of a steel marble. What is the mass of an empty tin box?	Do not write in this space.
# e500	od jakist populati galari kalendari galari kalendari ga oʻri	
		al ja l

18.	Thomas spent $\frac{2}{3}$ of his money on 3 books and 7 pens. The cost of each book is 3 times the cost of each pen.	Do not write in this space.
	He bought some more pens with $\frac{1}{4}$ of his remaining money and had \$45	
	left. How much did Thomas spend on the pens altogether?	
	×	
	ည့္သားသေက က က်ခြဲေဆာက် ညာ ၂ က ၈ ျဖစ္ပြား အရွယ္ေတာ့ အေတြက ဦးႏွင့္ အတည္းမ်ားက အရွင္း ေသး	
	es es ^K e ^C e	

END OF PAPER.
PLEASE CHECK YOUR WORK CAREFULLY.

Ans:

SCHOOL :

CATHOLIC HIGH SCHOOL

LEVEL :

PRIMARY 6

LEVEL : SUBJECT : TERM :

MATH

PRELIM 2

CONTACT:

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	4	4	3	4	1	2	1	1	2

Q 11	Q12	Q13	Q14	Q15
3	1	4	3	3

PAPER 1 BOOKLET B

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11213

Q23)
$$8.50 \div 5 = 1.70$$

$$1.70 \times 2 = 3.40$$

Q24) \$20 \(\to 5\) pkt

\$40 → 10 pkt

 $$60 \rightarrow \underline{15} \text{ pkt}$

Q25) 60

$$52 \div 2 = 26$$

$$26 \times 3 = 78$$

$$78 - 12 = 66$$

$$66 - 28 = 38$$

Q28)
$$4 \times 4 = 16$$

$$16 \times 3 = 48$$

$$48 - 10 = 38$$

Q29) 24 A = 36 Oranges

Apples
$$\to 24 - 18 = 6$$

Q30) Length of square \rightarrow 3 cm + 3 cm = 6 cm

Area of square (4 L-shape) \rightarrow 6 cm x 6 cm = 36 cm²

Area of one L-shape \rightarrow 36 cm² ÷ 4 = 9 cm²

PAPER 2

Q1) Total points
$$\rightarrow$$
 57 x 3 = 171

Third player score \rightarrow 171 - 96 = $\frac{75}{}$

Q2) D
$$\rightarrow$$
 (160 + y) cm

$$M \rightarrow (160 + y - 3) \text{ cm} = (157 + y) \text{ cm}$$

$$100 - 61 = 39$$

$$39 \div 3 = 13$$

$$13 \times 2 = 26$$

Ans: 26%

Q4)
$$35 - 26 = 9$$

$$36 \div 9 = 4$$

$$4 \times 100 = 400$$

Q5)

(b)
$$48 + 14 + 26 = 88$$

$$144 - 88 = 56$$

$$$36 \div 4 = $9$$

Q9)
$$\frac{1}{4} \times \pi \times 4 \times = \pi$$

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

$$\frac{1}{4}$$
 x π x 12 = 3 π

$$2 + 2 + 2 + 6 + \pi + 2 \pi + 3 \pi = 6 \pi + 12$$

Ans: $(6 \pi + 12)$ cm

Area of 2 squares \rightarrow 324cm² x 2 = 648 cm²

Length of OT → 18/2 cm = 9cm

Area of BOT $\rightarrow \frac{1}{2}$ x 9 cm x 18 cm = 81 cm²

Area of BOT and BOC → 81cm² x 2 = 162 cm²

Area of ABRSOD \rightarrow (648 - 162) cm² = 486 cm²

$$112 + 2 = 56$$

$$56 + 90 = 146$$

$$180 - 146 = 34$$

Ans : 34^O

(b)
$$90 - 68 = 22$$

$$22 + 34 = 56$$

$$180 - 56 = 124$$

$$180 - 87 = 93$$

$$56 \times 2 = .112$$

$$180 - 112 = 68$$

$$68 + 93 = 161$$

$$180 - 161 = 19$$

Ans: 19⁰

$$$1.80 \times 100 = $180$$

(b)
$$$1.80 \times 25 = $45$$

$$6/50 \times 100\% = 12\%$$

Q13)

Eddie

Faizal

S -> 145m/min



525 m

In 1 min, Eddie ran 35m faster than Faizal.

No. of mins \rightarrow 525 ÷ 35 = 15

D for Eddie \rightarrow 145m/min x 15 min = 2175 m

D for Faizal \rightarrow 2175m - 525m = 1650m

2175m + 1650m = 3825m

Q14) 85 + 5 = 90

 $90 \div 5 = 18$

 $18 \times 3 = 54$

18 - 5 = 13

13 + 61 = 74

74 - 54 = 20

Q15) (a) $3 L \times 12 = 36 L$

(b) 1800 \times 25.5 = 45900

 $36 L = 36000 \text{ cm}^3$

45900 + 36000 = 81900

1800 + 2400 = 4200

 $81900 \div 4200 = 19.5$

Ans: 19.5 cm

```
Q16)
           10¢: 20¢: Total 10¢ & 20¢:
                                                50¢
                                  4
                                  12
                                  12
                     8
                                  12
           9 \times \$0.50 = \$4.50
           4 \times \$0.10 = \$0.40
           $4.50 - $0.40 = $4.10
          $16.40 \div $4.10 = 4
          (4 x $0.10) + (8 x $0.20) + (9 x $0.50)
          = $0.40 + $1.60 + $4.50
          = $6.50
          $6.50 \times 4 = $26
```

Q17) Difference in total weight
$$\rightarrow$$
 1.3 kg - 1.1 kg = 0.2 kg

$$0.2 \text{ kg} = 200 \text{ g}$$

$$20 \times 39.7g = 794 g$$

574g all contributed by 30 glass balls.

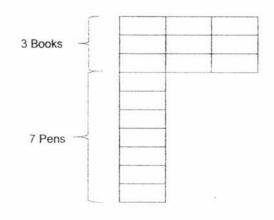
$$574g \div 30 = 19.8g$$

Weight of tin
$$\rightarrow$$
 1100g – 990g = $\underline{110g}$

www.testpaper.biz

Q18)

Money



$$3 \times 3 = 9$$

$$9 + 7 = 16$$

$$16 \div 2 = 8$$

Money
$$\rightarrow$$
 8 x 3 = 24U

More Pen
$$\rightarrow \frac{1}{4} \times 8 = 2$$

Total Pens
$$\rightarrow$$
 7 + 2 = 9

$$8U - 2U = 6U$$

Total Pens cost \Rightarrow \$7.50 \times 9 = \$67.50