CATHOLIC HIGH SCHOOL

SEMESTRAL ASSESSMENT TWO (2018)

PRIMARY FIVE

MATHEMATICS

PAPER 1

(BOOKLET A)

Name : _____( )

Class : Primary 5 _____

Date : 29 October 2018

Total Time for Booklets A and B: 1 hour

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 12 printed pages excluding the cover 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 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. What is seven million, five hundred and eight thousand and twenty-nine in numerals?

   (1) 7 008 529

   (2) 7 058 290

   (3) 7 508 029

   (4) 7 580 029

---

2. Express 10.83 ℓ in ℓ and ml.

   (1) 1 ℓ 83 ml

   (2) 1 ℓ 830 ml

   (3) 10 ℓ 83 ml

   (4) 10 ℓ 830 ml

---

3. Find the product of 3000 and 120.

   (1) 3600

   (2) 36 000

   (3) 360 000

   (4) 3 600 000

---

4. Express $4\frac{27}{300}$ as a decimal.

   (1) 4.027

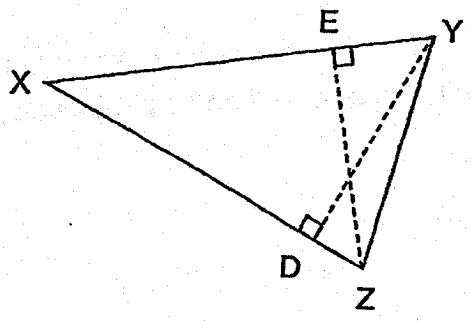
   (2) 4.09

   (3) 4.27

   (4) 4.9

---

5. In the figure below, XYZ is a triangle.
When XZ is the base, find the height of triangle XYZ.



(1) DY

(2) EZ

(3) XY

(4) YZ

---

6. Find the value of $9 \times \frac{19}{6}$

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

(2) $12\frac{1}{6}$

(3) $27\frac{1}{6}$

(4) $28\frac{1}{2}$

---

7. Express 4.3 as a percentage.

(1) 43 %

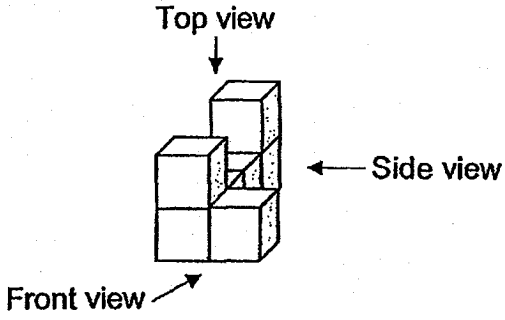
(2) 430 %

(3) 0.43 %

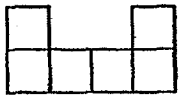
(4) 0.043 %

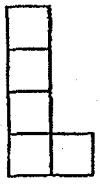
---

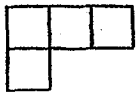
8. Which of the following view is the top view of the given solid?



(1) 

(2) 

(3) 

(4) 

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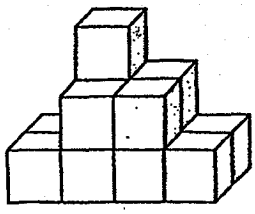
9. The solid below is made up of identical 1-cm cubes. What is its volume?



(1) 10 cm^3

(2) 11 cm^3

(3) 12 cm^3

(4) 13 cm^3

---

10. The table shows the number of people who visited the museum over three days.

Day	Number of People
Monday	30
Tuesday	44
Wednesday	55

What was the average number of people who visited the museum over three days?

(1) 43

(2) 44

(3) 126

(4) 129

---

11. Box A is two times as heavy as Box B. Box C is three times as heavy as Box A. Box C weighs 50 g more than Box B. What is the mass of Box A?

(1) 10 g

(2) 20 g

(3) 60 g

(4) 90 g

---

12. The ratio of the perimeters of two squares is 1: 6. The perimeter of the smaller square is 12 cm. What is the length of one side of the larger square?

(1) 15 cm

(2) 18 cm

(3) 21 cm

(4) 72 cm

---

13. Emily had $600. She spent 40% of her money and saved the rest. How much did she spend?

(1) $240

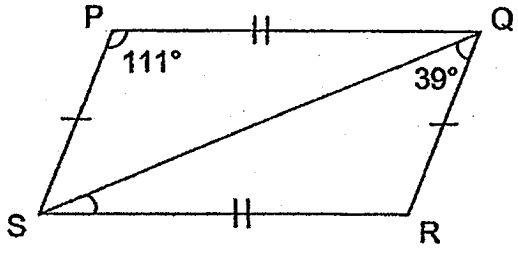
(2) $360

(3) $560

(4) $640

---

14. PQRS is a parallelogram. $\angle SQR = 39°$ and $\angle SPQ = 111°$. Find $\angle QSR$.



(1) 30°

(2) 39°

(3) 69°

(4) 141°

---

15. The table shows the local parcel delivery charges. What is the delivery charge for delivering a parcel with a mass of 5.2 kg?

Mass Step Not Over	Charge
1 kg	$10
2 kg	$18
5 kg	$42
Per additional step of 1 kg or part thereof	$8

(1) $50

(2) $52

(3) $54

(4) $60

END OF BOOKLET A

CATHOLIC HIGH SCHOOL

SEMESTRAL ASSESSMENT TWO (2018)

PRIMARY FIVE

MATHEMATICS

PAPER 1

(BOOKLET B)

Name : _____( )

Class : Primary 5 _____

Date : 29 October 2018

Total Time for Booklets A and B: 1 hour

15 questions

25 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.

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Booklet A and B consist of 12 printed pages excluding the cover page.

Questions **16** to **20** 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. (5 marks)

Do not write in this space

16. Find the value of $84 + (63 - 19) \div 4$.

Ans: _____

17. Find the value of $\frac{5}{7} \times \frac{63}{8}$. Express your answer in its simplest form.

Ans: _____

18. Find the missing number in the box.

$7 : \boxed{\ ?\ } = 49 : 63$

Ans: _____

19. Find the value of 0.098×300.

Do not write in this space

Ans:_____

20. 14 children shared 4 cakes equally among themselves.
What fraction of a cake did each child get?
Express your answer in its simplest form.

Ans:_____

Total marks for questions 16 to 20

5

(Go on to the next page)

Questions **21** to **30** carry 2 marks each. Show your working clearly 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.

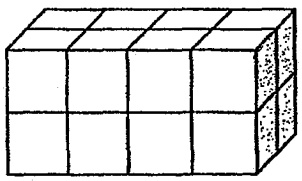
(20 marks)

Do not write in this space

21. The mass of a bottle is 1400 g when it is fully filled. The mass of the empty bottle is $\frac{1}{8}$ of the mass of a fully-filled bottle.
Find the mass of the empty bottle.

Ans: _____ g

22. The solid below is made up of 2-cm cubes. What is the volume of the solid?



Ans: _____ cm^3

23. The table below shows the number of siblings each pupil has in a class.

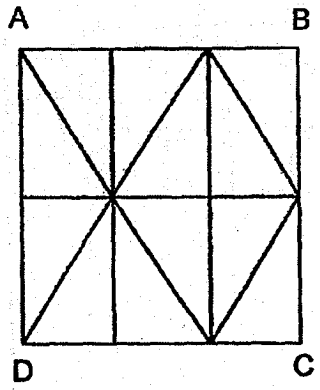
Do not write in this space

Number of siblings	Number of pupils
0	16
1	14
2	9
3	5

What is the ratio of the number of pupils who have siblings to the number of pupils who do not have siblings?
Express your answer in its simplest form.

Ans:_____

24. The figure ABCD below is made up of identical triangles. What percentage of the figure ABCD below is shaded?



Ans:_____ %

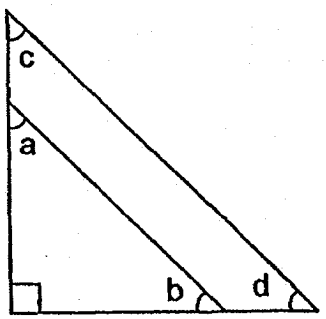
(Go on to the next page)

25. Lisa bought $\frac{8}{11}$ kg of flour. She used $\frac{5}{6}$ of it to make a cake. How many kilograms of flour was used to make the cake?

Do not write in this space

Ans:_____ kg

26. The figure below is made up of two right-angled triangles.
Find the sum of $\angle a + \angle b + \angle c + \angle d$.



Ans:_____ °

27. A painter takes 12 hours to paint 4 walls. How many hours will it take for the painter to paint 22 walls?

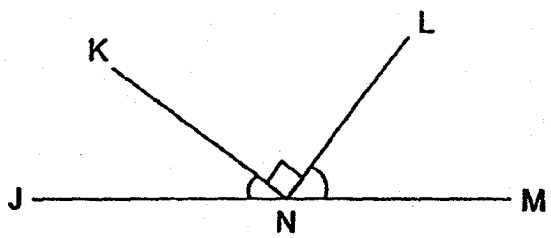
Do not write in this space

Ans: _____ h

28. The average of three different 2-digit numbers is 28. Of the three numbers, find the largest possible number.

Ans: _____

29. In the figure below, JNM is a straight line.



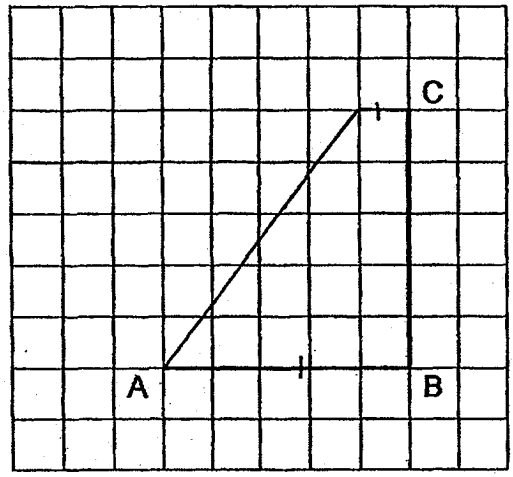
Each statement below is either true or false based on the figure above. For each statement, put a tick (√) in the correct column.

Statement	True	False	Not possible to tell
(a) ∠JNK is less than 90°			
(b) ∠JNK + ∠KNL + ∠MNL = 360°			

(Go on to the next page)

30. AB and BC are two sides of a trapezium. AB is parallel to DC. Complete the drawing of trapezium ABCD by drawing the other two sides in the square grid below.

Do not write in this space



Total marks for questions 21 to 30

20

END OF BOOKLET B
END OF PAPER 1

CATHOLIC HIGH SCHOOL

SEMESTRAL ASSESSMENT TWO (2018)

PRIMARY FIVE

MATHEMATICS

PAPER 2

Name : _____( )

Class : Primary 5 _____

Date : 29 October 2018

Total Time: 1 h 30 min

17 questions

55 marks

Parent's Signature: _____

Paper 1 Booklet A	/20
Paper 1 Booklet B	/25
Paper 2	/55
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.

This booklet consists of 12 printed pages excluding the cover 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. All diagrams are not drawn to scale. (10 marks)

Do not write in this space

1. The ratio of the length of Plank A to Plank B to Plank C is 5 : 8 : 6. The difference between the length of Plank A and the length of Plank B is 2.25 m. What is the length of Plank C?

Ans:_____ m

2. The usual price of a shirt was $75. Cameron bought the shirt at a 15% discount. How much was the discount?

Ans: $_____

3. John and Rachel had some buttons in the ratio 2 : 7. After John gave Rachel half of his buttons, Rachel had 416 buttons in the end. How many buttons did John have in the end?

Do not write in this space

Ans:_____

4. Richard is four times as old as Monica. In 14 years' time, their total age will be 108. What is Monica's age now?

Ans:_____ years old

5. Barry had $50 000 in his bank account. The bank paid 1.9% interest at the end of each year. How much interest did he earn at the end of one year?

Ans: $ _____

For questions **6** to **17**, 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.

(45 marks)

Do not write in this space

6. Nelson had some money. He spent \$124.50 on a shirt and $\frac{3}{8}$ of the remaining money on some bedsheets. He then had $\frac{1}{2}$ of his money left. How much money did Nelson have left?

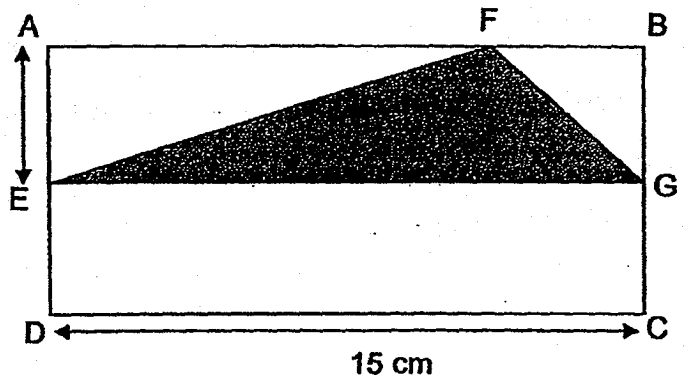
Ans:_____ [3]

7. At a carnival, Phoebe had a total of \$5588 worth of coupons consisting of \$2 and \$5 coupons. There were 3 times as many \$2 coupons as \$5 coupons. How many \$2 coupons did she have?

Ans:_____ [3]

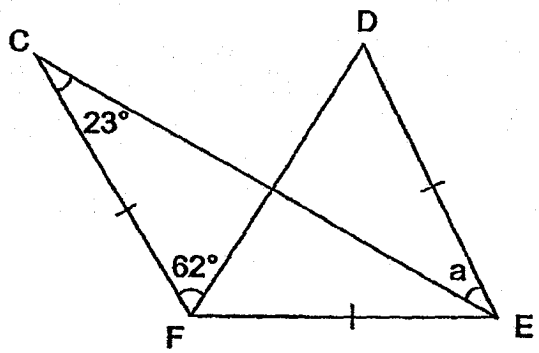
8. In the figure below, ABCD is a rectangle and the area of triangle EFG is 30 cm². AE is $\frac{1}{2}$ of AD. Find the length of AD.

Do not write in this space



Ans:_____ [3]

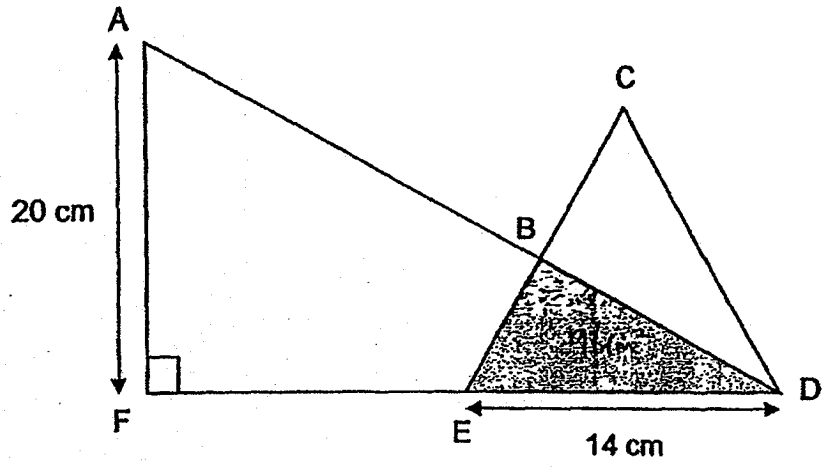
9. In the figure below, CEF and DEF are triangles. CF = FE = ED. Find ∠a.



Ans:_____ [3]

10. The figure ABCDEF is made up of two triangles ADF and CDE. The area of the shaded triangle BDE is 96 cm^2, which is half of the area of triangle CDE. FE = ED = 14 cm. What is the total area of the figure ABCDEF?

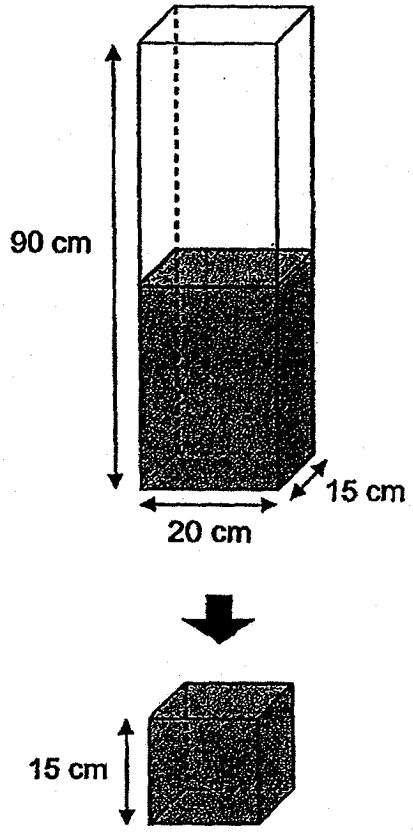
Do not write in this space



Ans:_____ [3]

11. A rectangular tank measuring 90 cm by 20 cm by 15 cm was half-filled with water. The water from the rectangular tank was poured into an empty cubical tank of edge 15 cm until it was completely filled. How much water was left in the rectangular tank?

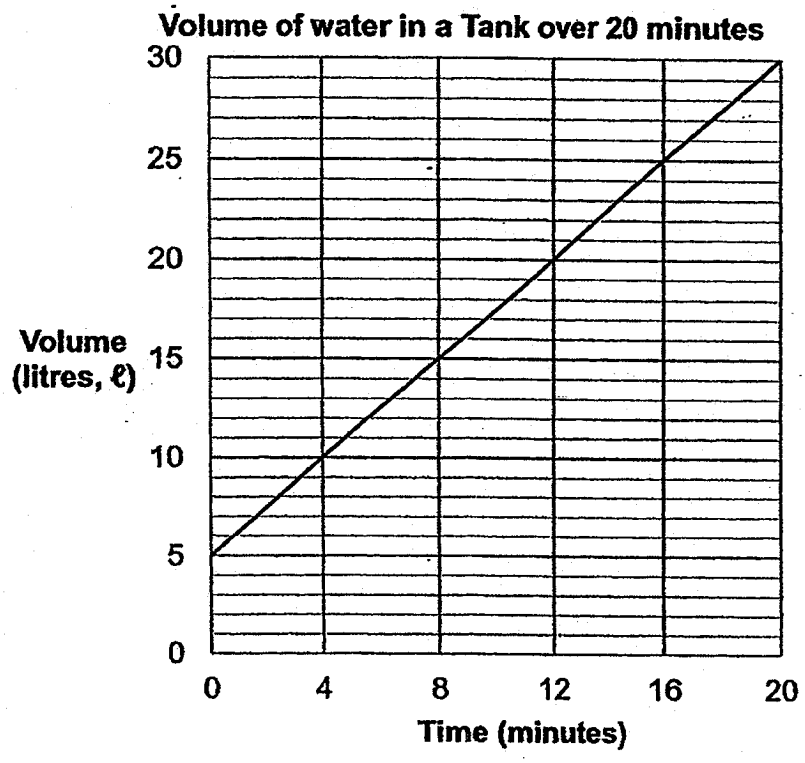
Do not write in this space



Ans: _____ [4]

12. At first, a tank was filled with some water. A tap was then turned on for some time to fill the tank with more water. The line graph shows the volume of water in a tank over 20 minutes.

Do not write in this space



(a) Find the original amount of water in the tank at first.

(b) How long did it take for the volume of water in the tank to be 25 ℓ?

(c) How much water flowed from the tap into the tank in one minute?

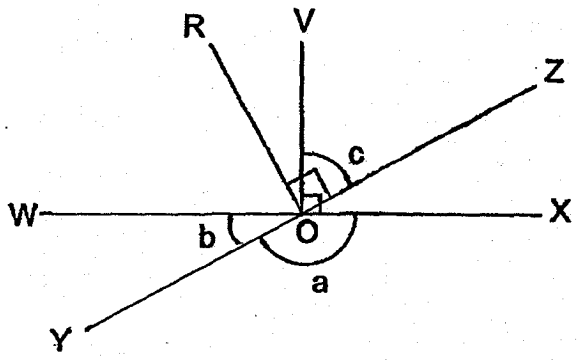
Ans: (a) _____ [1]

(b) _____ [1]

(c) _____ [2]

13. In the figure below, WX and YZ are straight lines. ∠ROZ and ∠VOX are right angles. ∠a is four times of ∠b.

Do not write in this space



(a) Find ∠b.

(b) Find ∠c.

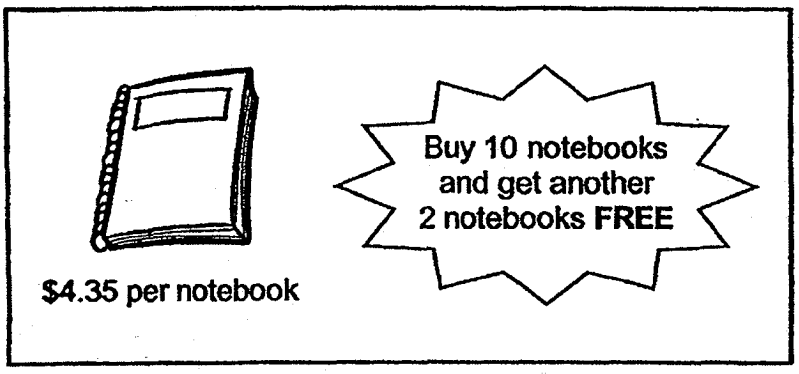
Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

14. At a shop, the price of a notebook is $4.35. For every 10 notebooks bought, the shop gives away another 2 notebooks for free. Mrs Smith spent $304.50 buying notebooks. How many notebooks did she get altogether?

Do not write in this space



Ans:_____ [4]

15. Adam booked 42 small and large buses for an excursion. There was a total of 1055 seats. Each small bus had 15 seats and each large bus had 40 seats. How many large buses did Adam book?

Do not write in this space

Ans:_____ [4]

17. Weixiong spent $\frac{1}{6}$ of his money on appliances and an additional \$3500 on some furniture. He spent $\frac{7}{8}$ of the remaining money on renovation and had \$2900 left. How much did he have at first?

Do not write in this space

Ans:_____ [5]

END OF PAPER 2

16. The following is made up of identical squares.
Study the pattern carefully.

Do not write in this space

 → Shaded square

 → Unshaded square

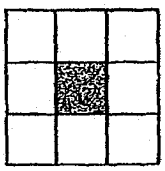


Figure 1

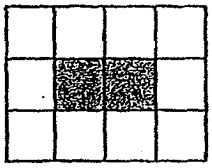


Figure 2

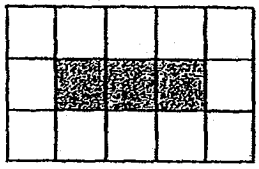


Figure 3

Figure Number	Number of shaded squares	Number of unshaded squares	Number of total squares
1	1	8	9
2	2	10	12
3	3	12	15
4	4	(a)	(b)

[2]

(a) Find the number of unshaded squares for Figure 4

(b) Find the total number of squares for Figure 4.

(c) Find the Figure number with a total number of 123 squares.

Ans: (c) _____ [3]

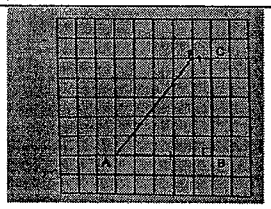
SCHOOL : CATHOLIC HIGH SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : 2018 SA2

PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
2	2	1	1	1

PAPER 1 BOOKLET B

Q16) 95
Q17) 5 5/8
Q18) 9
Q19) 29.4
Q20) 2/7
Q21) 1/8 x 1400 = 175
Q22) 2 x 2 x 2 x 16 = 128
Q23) 7:4
Q24) 6/12 x 100 = 50
Q25) 8/11 x 5/6 = 20/33
Q26) 90 + 90 = 180
Q27) 22 ÷ 2 = 11 11 x 666
Q28) 63
Q29) (a) True (b) False
Q30) 

PAPER 2

Q1)	A : B : C 5 : 8 : 6 8 – 5 = 3 2.25 ÷ 3 = 0.75 0.75 x 6 = **4.5**
Q2)	15/100 x 75 = **11.25**
Q3)	J : R 2 : 7 1 : 8 416 ÷ 8 = **52**
Q4)	108 - 28 = 80 80 ÷ 5 = **16**
Q5)	1.9/100 x 50000 = **960**
Q6)	$124.50 ÷ 2 = $62.25 $62.25 x 5 = **$311.25**
Q7)	5588 ÷ 11 = 508 508 x 3 = **1524**
Q8)	½ x 15 = 7.5 ½ x 4 x 15 = 30 30 ÷ 7.5 = 4 4 x 2 = 8 (**Ans : 8 cm**)
Q9)	$23^{o} + 62^{o} = 85^{o}$ $180^{o} - 23^{o} - 72^{o} - 72^{o} =$ **13^{o}**
Q10)	½ x 20 x 28 = 280 280 + 96 = 376 (**Ans : 376 cm^2**)
Q11)	45 x 20 x 15 = 13 500 15 x 15 x 15 = 3 375 13 500 – 3 375 = 10 125 There is **10 125 ml** of water left in the rectangular tank.

Q12)	**a) 5 litres** **b) 16 minutes** c) 5 ÷ 4 = **1.25 litres**
Q13)	a) $180^0 \div 5^0 = \mathbf{36^0}$ b) $90^0 - 36^0 = \mathbf{54^0}$
Q14)	4.35 x 10 = 43.50 304.50 ÷ 43.50 = 7 7 x 2 = 14 70 + 14 = **84 (Ans)**
Q15)	42 x 15 = 630 1055 – 630 = 425 40 – 15 = 25 425 – 25 = **17 (Ans)**
Q16)	**a) 14** **b) 18** c) 123 ÷ 3 = 41 41 - 2 = **39**
Q17)	2 900 x 8 = 23 200 23 200 + 3 500 = 26 700 26 700 ÷ 5 = 5 340 5 340 x 6 = 32 040 Weixiong has **$32 040** at first.