25

CATHOLIC HIGH SCHOOL

END-OF-YEAR EXAMINATION (2019)

PRIMARY FIVE

MATHEMATICS

PAPER 1

(BOOKLET A)

Name : _____ ( )

Class : Primary 5 _____

Date : 25 Oct 2019

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 14 printed pages excluding the cover page.

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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 eight million, twenty-one thousand and fifteen in numeral?

   (1) 8 021 015

   (2) 8 021 150

   (3) 8 210 015

   (4) 8 210 150

---

2. Which of the following is the same as 3015 cm?

   (1) 3.15 m

   (2) 3.105 m

   (3) 3.015 m

   (4) 30.15 m

---

3. What is the value of 4200 ÷ 30?

   (1) 140

   (2) 1400

   (3) 12 600

   (4) 126 000

---

4. There are 45 731 children at a carnival. Express this number to the nearest hundred.

   (1) 45 000

   (2) 45 600

   (3) 45 700

   (4) 45 800

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5. How many quarters are there in $5\frac{1}{2}$?

(1) 11

(2) 22

(3) 12

(4) 21

---

6. What is the missing number in the box?

24 : 32 = ☐ : 4

(1) 6

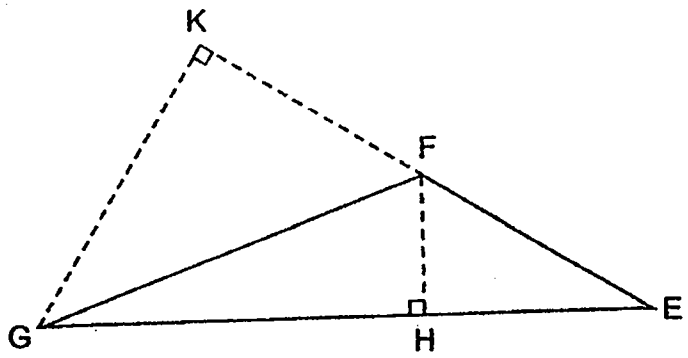
(2) 8

(3) 3

(4) 12

---

7. In the figure below, FEG is a triangle.
Given that FE is the base of triangle FEG, what is the height of triangle FEG?



(1) FH

(2) KG

(3) EG

(4) FG

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8. Which of the following is closest to 1?

(1) $\frac{3}{4}$

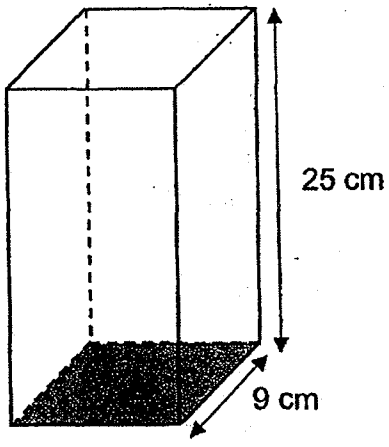
(2) $\frac{4}{3}$

(3) $\frac{4}{5}$

(4) $\frac{7}{6}$

---

9. The diagram shows a cuboid with a square base. Find its volume.



(1) 225 cm^3

(2) 450 cm^3

(3) 2025 cm^3

(4) 5625 cm^3

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10. The table below shows the scores of 3 boys in a test.

Name	Scores
Thomas	50
Ali	75
Kumar	85

What is the average score of the 3 boys?

(1) 70

(2) 75

(3) 80

(4) 85

---

11. The table below shows the charges for renting a bicycle from a shop.

First 2 hours	$12
After the first 2 hours	$5 per half an hour or part thereof

Winston rented a bicycle from 11.30 a.m. to 2.45 p.m. on the same day. How much did he pay for the rental?

(1) $22

(2) $27

(3) $34

(4) $39

---

12. Amirah has a total of 216 roses, orchids and lilies. The ratio of the number of roses to the number of orchids to the number of lilies is 3 : 4 : 2. How many lilies does she have?

(1) 48

(2) 72

(3) 96

(4) 144

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13. At an amusement park, there were 400 children. 32% of the children were girls. How many boys were at the amusement park?

(1) 128

(2) 272

(3) 332

(4) 368

---

14. There were some chocolate and vanilla cakes at a shop. After the shop sold $\frac{2}{5}$ of the chocolate cakes and $\frac{2}{3}$ of the vanilla cakes, there was an equal number of chocolate and vanilla cakes left. What was the ratio of the number of chocolate cakes to the number of vanilla cakes at first?

(1) 1 : 2

(2) 3 : 1

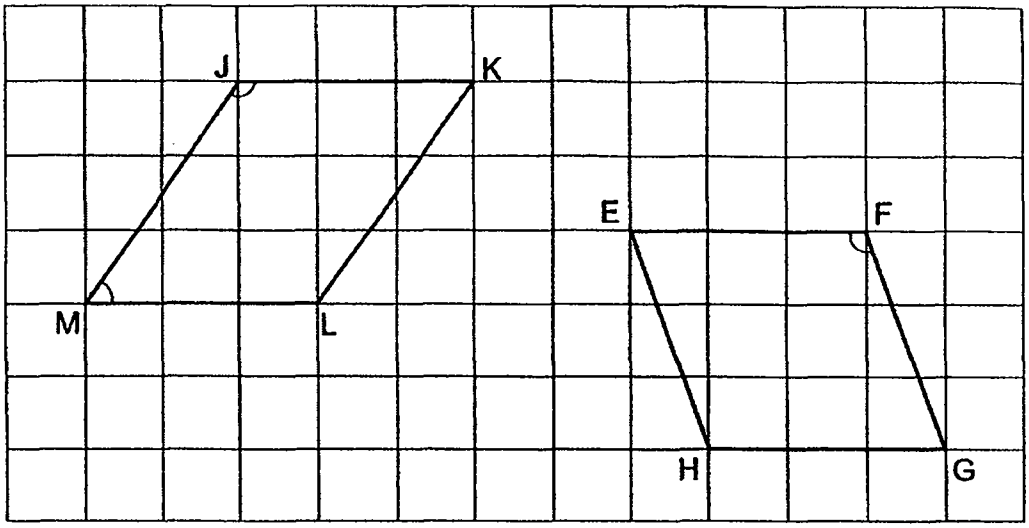
(3) 5 : 3

(4) 5 : 9

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15. Figures JKLM and EFGH are shown in the square grid below.



Based on what is shown in the square grid, which of the following statement(s) is/are true?

Statement A : $\angle MJK = \angle EFG$

Statement B : $\angle LMJ + \angle MJK = 180°$

Statement C : Line EH is parallel to line JM.

(1) B only

(2) C only

(3) A and B only

(4) A and C only

END OF BOOKLET A

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CATHOLIC HIGH SCHOOL

END-OF-YEAR EXAMINATION (2019)

PRIMARY FIVE

MATHEMATICS

PAPER 1

(BOOKLET B)

Name : _____ ( )

Class : Primary 5 _____

Date : 25 Oct 2019

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.

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

Booklet A and B consist of 14 printed pages excluding the cover page.

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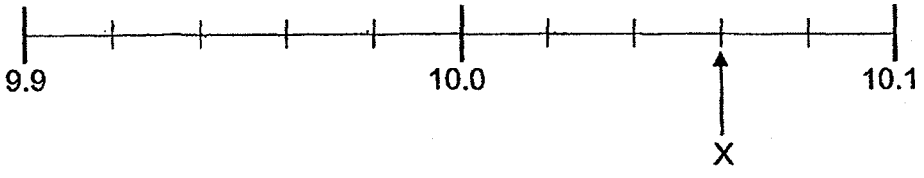
Questions **16** to **20** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. (5 marks)

Do not write in this space

16. Find the value of 35 – 14 + 3 x 6

Ans: _____

17. The number line is marked at equal intervals. What is the value of the reading at X?



Ans: _____

18. Express 15% as a fraction in the simplest form.

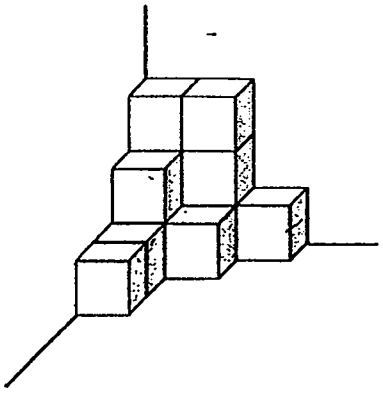
Ans: _____

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19. The solid shown below is made up of 1-cm cubes. What is the volume of the solid?

Do not write in this space



Ans: _____ _____ cm^3

20. Jerry bought 3 m of ribbon. He gave $\frac{2}{9}$ m of ribbon to his friend. What was the length of the ribbon he had left?

Ans: _____ m

Total marks for questions 16 to 20

5

(Go on to the next page)

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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. George had $\frac{2}{9}$ kg of flour. He used $\frac{1}{3}$ of it to bake a cake.
How much flour did he have left?

Ans: _____ kg

22. A bag contains some red, blue and green beads. The ratio of the number of red beads to that of blue beads is 2 : 3. The ratio of the number of blue beads to that of green beads is 9 : 7. What is ratio of the number of red beads to that of green beads?

Ans: _____

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23. Sam had $96 more than Henry. After spending the same amount of money, Sam had thrice as much money as Henry. How much did Henry have left?

Do not write in this space

Ans:$_____

24. At a party, 5 children shared 7 pizzas equally among themselves. What fraction of a pizza did each child get?

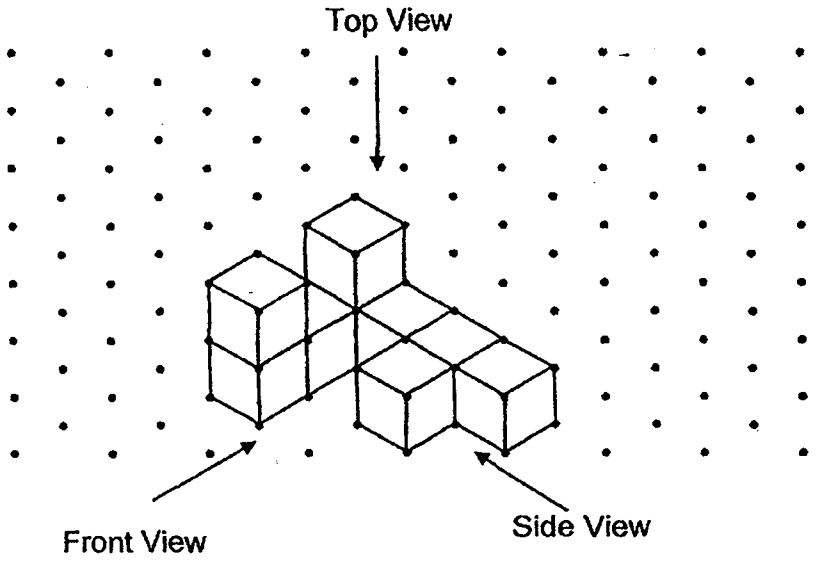
Ans:_____

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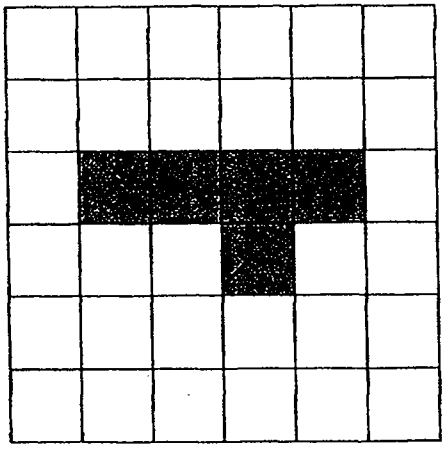
25. The following solid is made up of 9 cubes.

Do not write in space

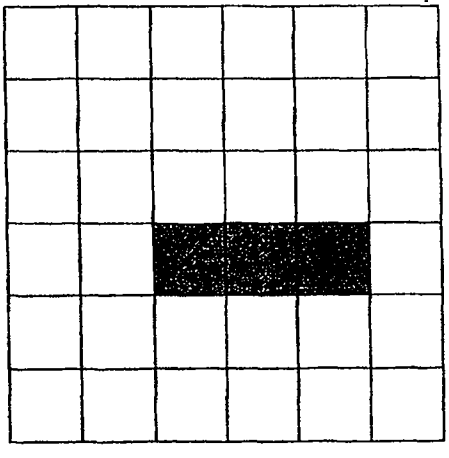


Part of the top view and side view of the solid have been drawn as shown below. Shade the correct number of squares to complete each view.

Top View



Side View

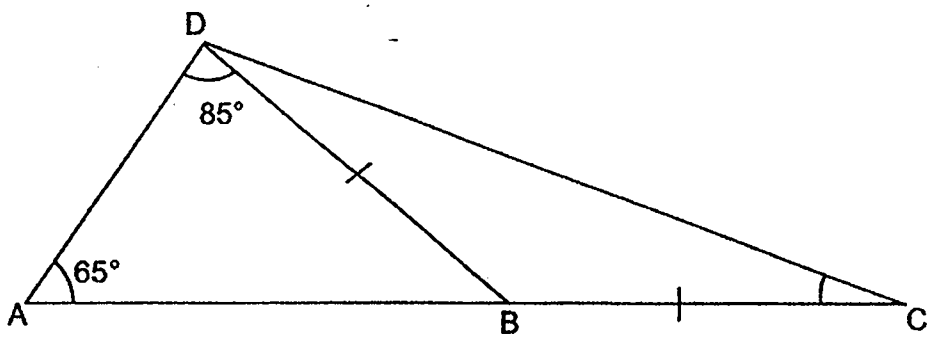


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26. In the figure below, ADC is a triangle. BDC is an isosceles triangle. Find $\angle DCB$.

Do not write in this space



Ans: _____°

27. A mobile phone cost $540. Nicholas bought it at a 25% discount. How much did he pay for the mobile phone?

Ans:$ _____

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28. The average mass of 3 bags is 45 kg. The mass of Bag A is 30 kg. Bag B is twice as heavy as Bag C. What is the mass of Bag C?

Do not write in this space

Ans: _____ kg

29. Rachel, Jolene and Eileen each brought an equal amount of money to a supermarket to buy groceries. Jolene spent $25 more than Rachel and $25 less than Eileen.

Statement (a) and (b) are either true, false or not possible to tell from the information given above. For statement (a) and (b), put a tick (✓) in the correct column.

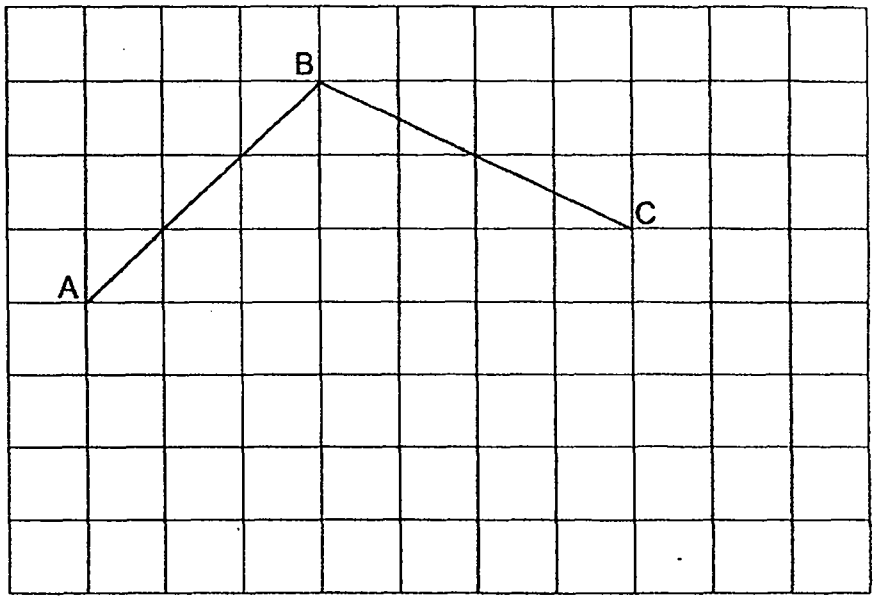
Statement	True	False	Not possible to tell
(a) Jolene had more money left than Rachel.			
(b) Eileen had the least amount of money left.			

(Go on to the next page)

Marshall Cavendish SingaKids.com

30. Complete the parallelogram ABCD with the given lines AB and BC.

Do not write in this space



Total marks for questions 21 to 30

20

END OF BOOKLET B
END OF PAPER 1

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CATHOLIC HIGH SCHOOL

END-OF-YEAR EXAMINATION (2019)

PRIMARY FIVE

MATHEMATICS

PAPER 2

Name : _____ ( )

Class : Primary 5 _____

Date : 25 Oct 2019

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 15 printed pages excluding the cover page.

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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. Danny spent a total of $148 on 7 movie tickets and 5 boxes of nachos. Each ticket cost $14. How much did each box of nachos cost?

Ans:$_____

2. A washing machine cost $950 before GST. What was the price of the washing machine including 7% GST?

Ans:$ _____

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3. Box A, B and C each contains different number of beads. The total number of beads in the 3 boxes is 320. Box A has 128 more beads than box B. Box C has 140 fewer beads than Box A. How many beads are there in Box C?

Do not write in this space

Ans: _____

4. Simon is thrice as old as Amina now. In 7 years' time, their total age will be 78 years old. What is Amina's age now?

Ans: _____ years old

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Mr. Tan had $12 000 in his bank account. The bank paid 3.5% interest at the end of each year. How much money did he have at the end of 1 year?

Do not write in this space

Ans:$_____

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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. Jim had 128 marbles at first. He gave $\frac{1}{8}$ of the marbles to his friends and $\frac{1}{4}$ of the marbles to his neighbour. How many marbles did he have left?

Ans: _____ [3]

(Go on to the next page)

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7. Amelia wanted to buy 15 water bottles but she found that she was short of $92. She bought 8 water bottles and had $6 left. How much money did Amelia have?

Do not write in this space

Ans: _____ [3]

(Go on to the next page)

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8. The total cost of 5 pens and 2 files is $21.80. The total cost of 3 such pens and 6 such files is $31.80. Find the cost of a pen.

Do not write in this space

Ans: _____ [3]

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9. A total of 38 children were at a party. At the party, each boy ate 7 chicken wings while each girl ate 5 chicken wings. The children ate a total of 256 chicken wings. How many boys were at the party?

Do not write in this space

Ans: _____ [3]

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10. ABCD is a rectangular piece of paper with a perimeter of 178 cm. AB is 65 cm and point X is the mid-point of AD. It is folded along the dotted line as shown in Figure 1. What is the area of the shaded triangle?

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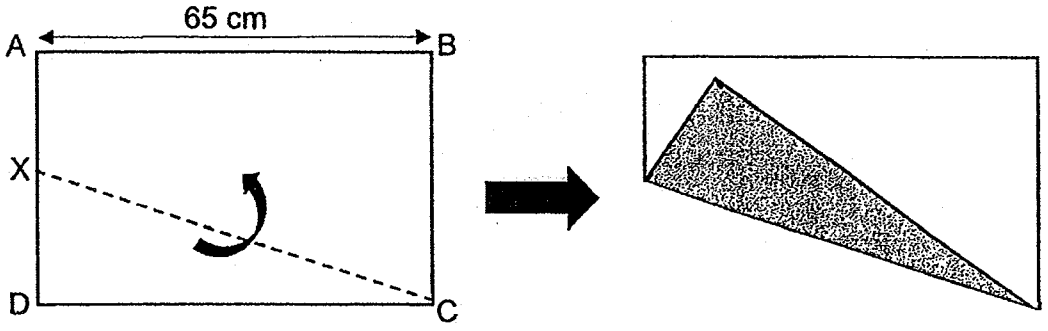


Figure 1

Ans: _____ [3]

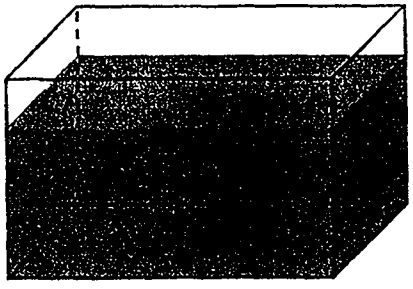
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11. Tank B, measuring 25 cm by 10 cm by 8 cm, was empty at first. Tank A was $\frac{5}{6}$ filled with water. Some water in Tank A was poured into Tank B without any spillage and it filled up $\frac{3}{4}$ of Tank B. There was 2700 cm^3 of water left in Tank A.

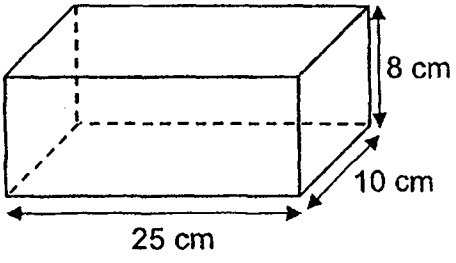
Do not write in this space

(a) How much water was poured into Tank B?

(b) What was the capacity of Tank A? Leave your answer in litres.



Tank A



Tank B

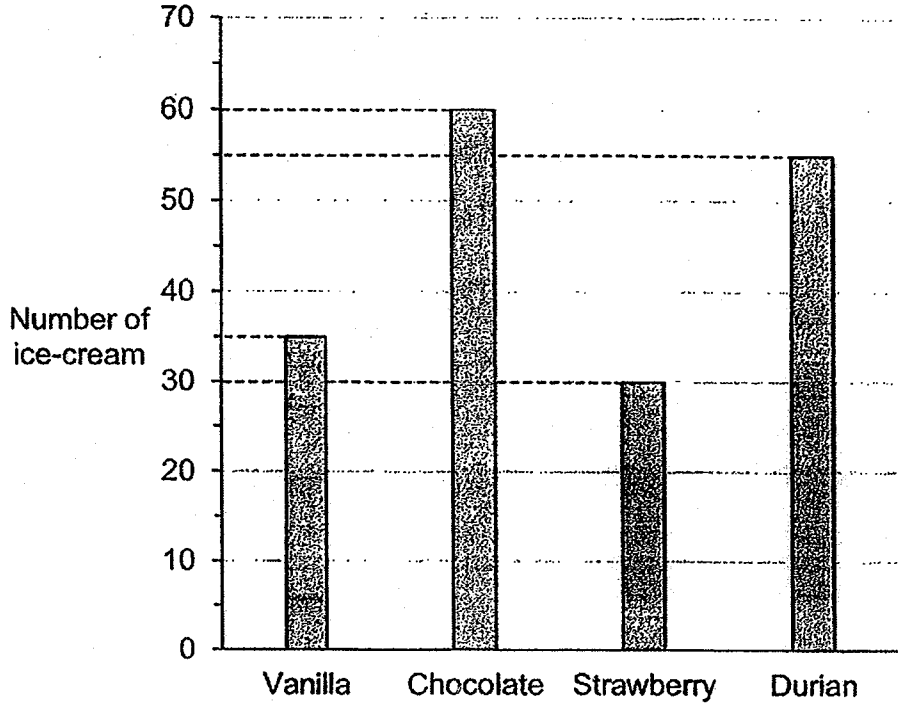
Ans: (a) _____ [2]

(b) _____ [2]

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12. The graph below shows the number of ice-cream flavours sold at a shop in a day.

Do not write in this space



(a) What percentage of the ice-cream sold was durian ice-cream? Give your answer correct to 1 decimal place.

(b) The cost of each ice-cream was the same. The amount of money collected for vanilla ice-cream was $15 more than the amount of money collected for strawberry ice-cream. What was the total amount of money collected from the sale of all the ice-cream?

Ans: (a) _____ [2]

(b) _____ [2]

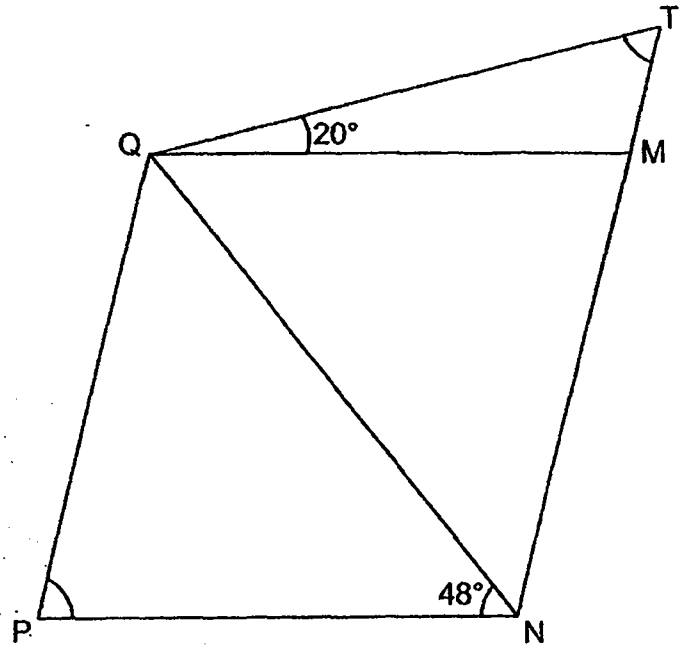
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13. In the figure, QMNP is a rhombus and QMT is a triangle. NT is a straight line. $\angle QNP = 48°$, $\angle MQT = 20°$.

Do not write in this space

(a) Find $\angle QPN$.

(b) Find $\angle QTM$.



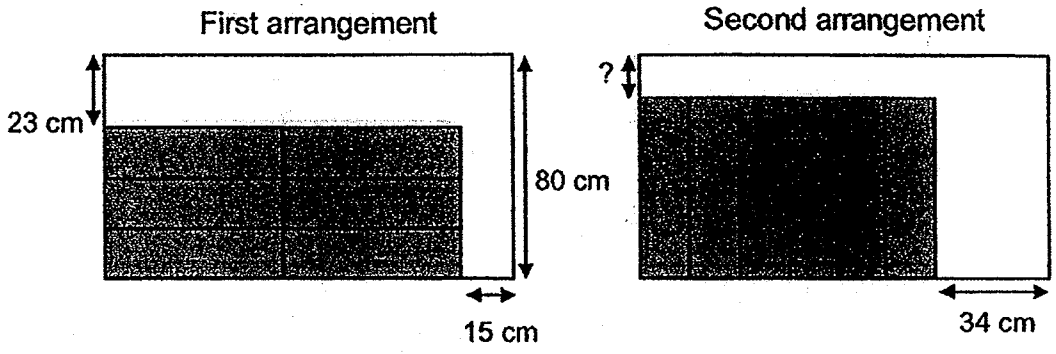
Ans: (a)_____ [2]

(b)_____ [2]

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14. Six identical rectangular parcels are packed into a rectangular box with a width of 80 cm. The top view of two possible arrangements are shown below. The first arrangement shown leaves gaps of 23 cm and 15 cm. The second arrangement shown leaves a 34 cm gap. What is the length of the other gap in the second arrangement?

Do not write in this space



Ans:_____ [5]

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15. At a party, every girl was given 2 stickers and every boy was given 3 stickers. There were 5 times as many girls as boys. The children received a total of 390 stickers. How many more stickers were given to the girls than to the boys?

Do not write in this space

Ans: _____ [4]

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

Do not write in this space

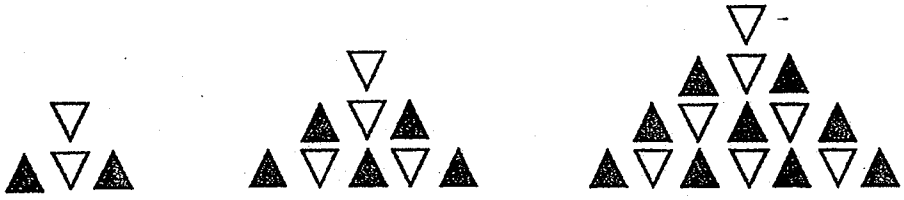


Figure 1 Figure 2 Figure 3

Figure Number	Number of shaded triangles	Number of unshaded triangles	Total number of triangles
1	2	2	4
2	5	4	9
3	9	7	16
4			15

(a) Complete the table for figure 4. [2]

(b) A figure number in the pattern has a total of 144 triangles.
What is the figure number?

Ans: (b) ____ [2]

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17. In the morning, Jaffar sold some muffins at 4 for $11. In the afternoon, he received $600 from the sale of $\frac{5}{6}$ of the remaining muffins at $2 each. In the end, he had $\frac{1}{8}$ of the total number of muffins left. How much money did Jaffar receive from the sale of the muffins in the morning?

Do not write in this space

Ans: _____ [5]

END OF PAPER 2

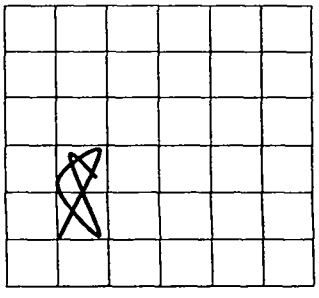
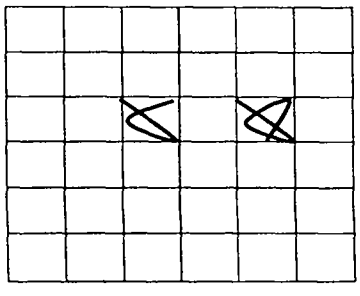
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SCHOOL : CATHOLIC HIGH PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : 2019 SA2

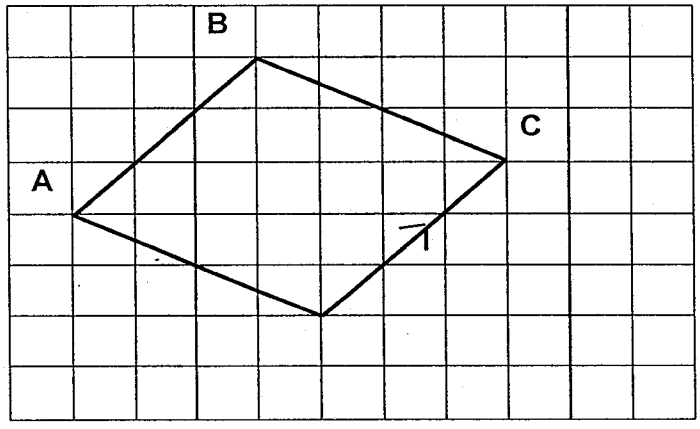
PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
2	1	2	4	1

Q16)	39
Q17)	10.06
Q18)	$\frac{3}{20}$
Q19)	12 cn^3
Q20)	$2\frac{2}{7}$
Q21)	$\frac{4}{27}$ kg
Q22)	6 : 7
Q23)	96 ÷ 2 = $48
Q24)	$7 \div 5 = \frac{5}{7}$ $\frac{5}{7} = 1\frac{2}{5}$
Q25)	 Top View  Side View

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Q26)	180 – 85 – 65 = 30 180 – 30 = 150 180 – 150 = 30 30 ÷ 2 = 15°
Q27)	100% →540 5% → 27 75% → 27 x 15 = $405
Q28)	45 x 3 = 135 135 – 30 = 105 105 ÷ 3 = 35 kg
Q29)	a)False b)True
Q30)	

PAPER 2

Q1)	14 x 7 = 98 148 – 98 = 50 50 ÷ 5 = 10
Q2)	100% →950 1% →9.50 107% →$1016.50
Q3)	320 – 128 – 12 – 12 = 168 168 ÷ 3 = 56
Q4)	64 ÷ 4 = 16 years old

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Q5)	103.5 % x 12000 = $12420
Q6)	128 ÷ 8 = 16 16 x 5 = 80
Q7)	15u – 8u = 7u 92 + 6 = 98 98 ÷ 7 = 14 14 x 8 = 112 112 + 6 = $118
Q8)	X3 { 5p + 2F = 21.80 15p + 6F = 65.40 3p + 6F = 31.80 12P = 33.60 1P = 33.60 ÷ 12 = $2.80
Q9)	5 x 38 = 190 256 – 190 = 66 66 ÷ 2 = 33
Q10)	178 – 65 – 65 = 48 48 ÷ 2 = 24 24 ÷ 2 = 12 ½ x 65 x 12 = 390 cm^2
Q11)	a) ¾ x 8 = 6 6 x 10 x 25 = 1500cm^3 b)2700 + 1500 = 4200 4200 ÷ 5 = 840 840 x 6 = 5040 5040 cm^3 = 5040ml = 5.04L
Q12)	a)$\frac{55}{185}$ x 100 = 30.6% b)35 – 30 = 5 15 ÷ 5 = 3 3 x 180 = $5.40

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Q13)	a)48° x 2 = 96° 360° – 96° – 96° = 168° 168° ÷ 2 = 84° b)180 – 84 = 96 180 – 96 – 20 = 64°
Q14)	80 – 23 = 57 57 ÷ 3 = 19 19 x 6 = 114 114 + 34 = 148 148 – 15 = 133 133 ÷ 2 = 66.5 80 – 66.5 = 13.5 cm
Q15)	3 + (2 x 5) = 13 390 ÷ 13 = 30 30 x 5 = 150 150 + 30 = 180
Q16)	a)14 / 11 b)12 – 1 = 11
Q17)	120 ÷ 2 = 60 60 x 8 = 480 480 – 360 = 120 120 ÷ 4 = 30 30 x 11 = 330

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