CATHOLIC HIGH SCHOOL

END-OF-YEAR EXAMINATION (2024)

PRIMARY FIVE

MATHEMATICS

PAPER 1

(BOOKLET A)

Name : _____( )

Class : Primary 5_____

Date : 22 October 2024

Total time for Booklet A and B : 1 hour

15 questions

20 marks

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.

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

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

This booklet consists of 7 printed pages and 1 blank page.

vQuestions **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)

1. 100 000 + 6 000 + 50 + 3 = _____

(1) 106 053

(2) 106 503

(3) 160 053

(4) 160 503

2. Express 20 400 mℓ in ℓ.

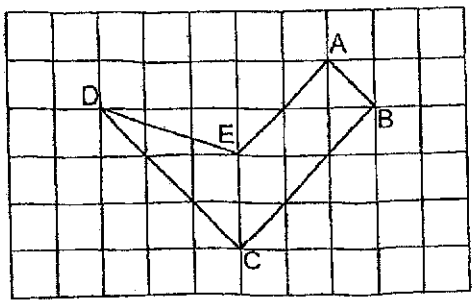
(1) 0.204 ℓ

(2) 2.04 ℓ

(3) 20.4 ℓ

(4) 204 ℓ

3. Which line in the square grid is parallel to DC?



(1) AB

(2) BC

(3) DE

(4) AE

4. What is the value of $57 - 5 \times 3 + 2$?

(1) 40
(2) 44
(3) 158
(4) 260

---

5. In 3.421, which digit is in the tenths place?

(1) 1
(2) 2
(3) 3
(4) 4

4

---

6. Which of the following has the same value as $2400 \div 30$?

(1) $2400 \times 10 \times 3$
(2) $2400 \times 10 \div 3$
(3) $2400 \div 10 \div 3$
(4) $2400 \div 10 \times 3$

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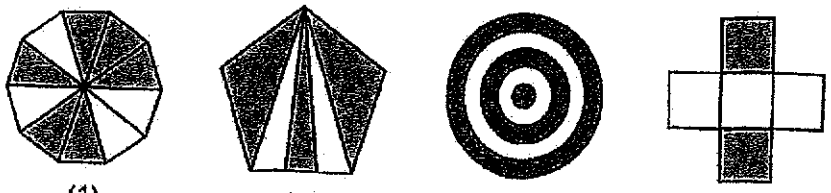
7. Which of the following shows $\frac{3}{5}$ of the figure shaded?



(1) (2) (3) (4)

(Go on to the next page)

8. Find the value of $\frac{2}{3} \times 8$.

(1) $\frac{2}{11}$

(2) $\frac{2}{38}$

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

(4) $5\frac{1}{3}$

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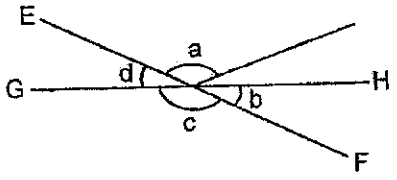
9. In the figure below, EF and GH are straight lines.
Which of the following is true?



(1) $\angle a = \angle c$

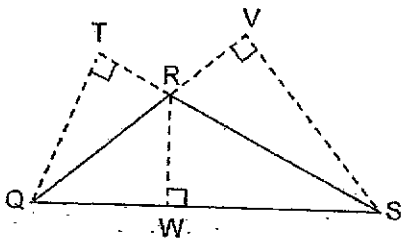
(2) $\angle b = \angle d$

(3) $\angle a + \angle c = 180°$

(4) $\angle b + \angle d = 180°$

(Go on to the next page)

10. In the figure below, when QR is the base of triangle QRS, which is the height of triangle QRS?



(1) SR

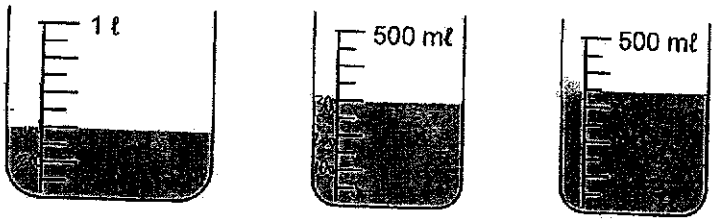
(2) SV

(3) RT

(4) RW

---

11. Three containers with some water are shown below.
Which container has the most water and which container has the least?

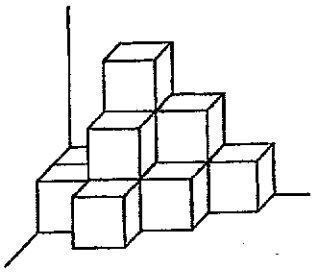


X Y Z

	Most	Least
(1)	Z	X
(2)	Z	Y
(3)	X	Z
(4)	X	Y

(Go on to the next page)

12. The solid shown below is formed using unit cubes. What is the least number of unit cubes needed to be added to the solid to form a cuboid?



(1) 12

(2) 24

(3) 36

(4) 52

---

13. Mila baked 120 brownies. She sold 45% of them. How many brownies had she left?

(1) 54

(2) 65

(3) 66

(4) 75

---

14. Asher had $\frac{5}{6}$ kg of clay. He used $\frac{1}{3}$ of it to make some mugs. How much clay had he left?

(1) $\frac{5}{9}$ kg

(2) $\frac{5}{18}$ kg

(3) $\frac{1}{2}$ kg

(4) $\frac{1}{6}$ kg

(Go on to the next page)

15. Helen, Indra and Jack were each given an identical chocolate bar. Helen ate $\frac{7}{12}$ of hers and Jack ate $\frac{1}{4}$ of his. Indra ate more than Jack but less than Helen. What fraction of a chocolate bar could Indra have possibly eaten?

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

(2) $\frac{5}{6}$

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

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

END OF BOOKLET A

CATHOLIC HIGH SCHOOL

END-OF-YEAR EXAMINATION (2024)

PRIMARY FIVE

MATHEMATICS

PAPER 1

(BOOKLET B)

Name : _____( )

Class : Primary 5_____

Date : 22 October 2024

Total time for Booklet A and B : 1 hour

15 questions

25 marks

Parent's signature : _____

BOOKLET A	20
BOOKLET B	25
Total Marks	45

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 8 printed pages.

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. Write thirteen thousand and eleven in numerals.

Ans: _____

17. Find the value of 7.5 x 500

Ans: _____

18. Find the value of $1-\frac{2}{5}-\frac{1}{2}$

Ans: _____

(Go on to the next page)

19. Calvin has a book with 205 pages. He reads an average of 5 pages of the book every day. How many days will he take to finish reading the book?

Do not write in this space

Ans: _____

20. Find the value of $26 \div 4$. Give your answer as a mixed number in the 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. Express $\frac{48}{7}$ as a decimal. Correct your answer to 2 decimal places.

Ans: _____

22. A machine takes 2 minutes to print 10 posters. At the same rate, how long will it take to print 145 posters?

Ans: _____ min

(Go on to the next page)

23. A string of length 8.1 m was cut into three pieces. The first piece was 3 times as long as the second piece. The second piece was twice as long as the third piece. How long was the first piece?

Do not write in this space

Ans: _____ m

24. Rama had some erasers in box A and B at first. After he transferred $\frac{1}{7}$ of the erasers in box A to box B, the ratio of the number of erasers in box A to the number of erasers in box B became 2 : 1. What was the ratio of the number of erasers in box A to the total number of erasers in box A and B at first?

Ans: _____

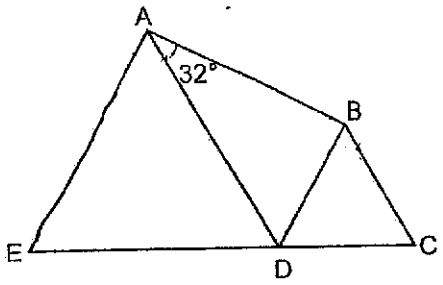
(Go on to the next page)

25. The base of a cuboid is a square of side 2 cm. The height of the cuboid is 8 cm. Find its volume.

Do not write in this space

Ans: _____ cm^3

26. ADE and BCD are equilateral triangles. EDC is a straight line. $\angle DAB$ is 32°. Find $\angle ABD$.



Ans: _____ °

(Go on to the next page)

27. Triangles K, L, M are drawn in a square grid.
Arrange triangles K, L, M from the smallest area to the largest area.

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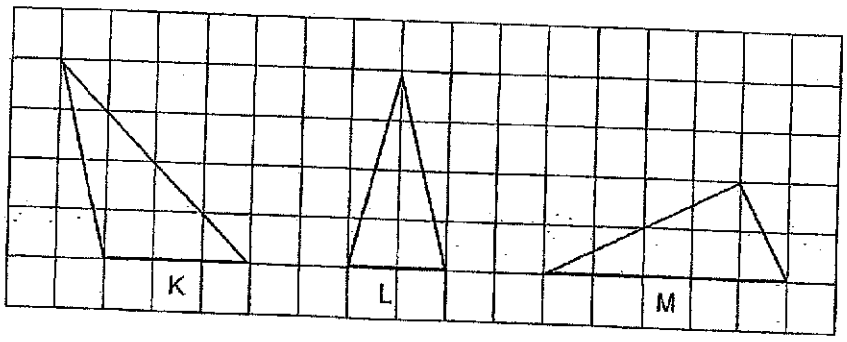
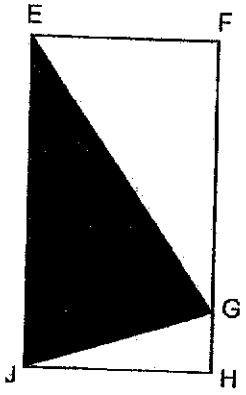


Ans: _____, _____, _____
Smallest Largest

28. The figure below shows a rectangle EFHJ and a triangle EGJ. The area of rectangle EFHJ is 215 cm². Find the area of triangle EGJ.



Ans: _____ cm²

(Go on to the next page)

29. The average mass of Ahmad, Ben and Carl is 40 kg. Ahmad and Ben are of the same mass and Carl is 6 kg heavier than Ben. Find Ahmad's mass.

Do not write in this space

Ans: _____ kg

30. Figure 1 shows an equilateral triangle which has a perimeter of 33 cm. Three such triangles are joined to form Figure 2. What is the perimeter of Figure 2?

Figure 1

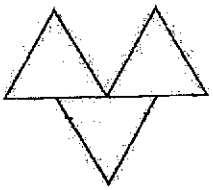


Figure 2

Ans: _____ cm

Total marks for questions 21 to 30

20

END OF BOOKLET B
END OF PAPER 1

CATHOLIC HIGH SCHOOL
END-OF-YEAR EXAMINATION (2024)
PRIMARY FIVE
MATHEMATICS
PAPER 2

Name _____( )

Class : Primary 5_____

Date : 22 October 2024

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 17 printed pages and 1 blank 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)

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1. Tickets for a theme park were sold at 20% discount. The price of 4 tickets before discount was $196. What was the discount for one ticket?

Ans: $ _____

2. The table below shows the number of sports played by each pupil in a group. Part of the table is covered by an ink blot. There were 157 pupils who played at least 2 sports.

Number of sports	0	1	2	3	4
Number of pupils	12	71	112	[redacted]	

Each statement is either true, false or not possible to tell from the information given. Put a tick (√) to indicate your answer.

Statement	True	False	Not possible to tell
There were 240 pupils in the group.			
The number of pupils who played 3 sports was equal to the number of pupils who played 4 sports.			

(Go on to the next page)

3. The graph shows the amount of money John saved every month from January to May. What was the average amount of money John saved from January to May?

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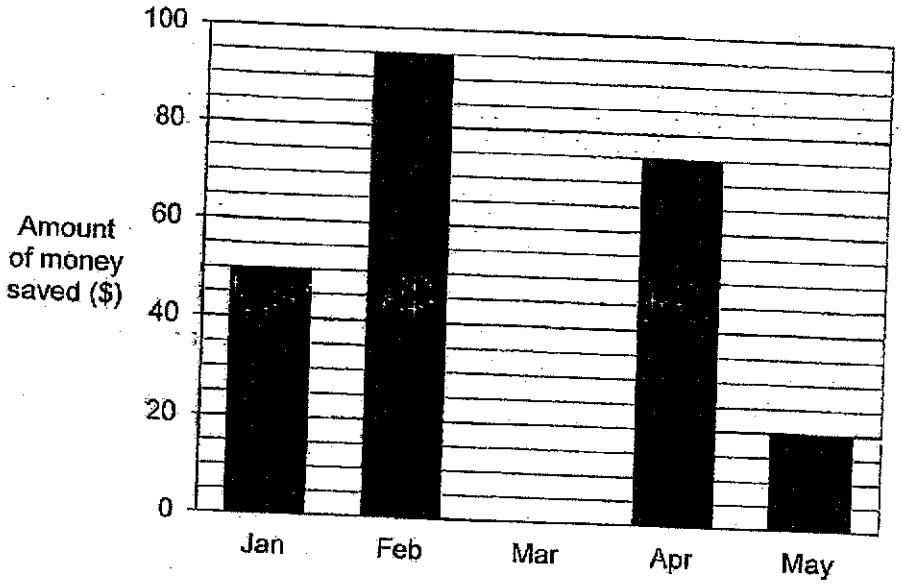


Ans: $ _____

(Go on to the next page)

4. Mr Ng bought three types of stationery. The prices are given below. The table shows the number of each type of stationery Mr Ng bought.

Do not write in this space

Types of stationery	Price per item	Number bought
Pens	$1.20	8
Notepads	90¢	14
Erasers	55¢	18

(a) Which type of stationery did Mr Ng spend the most on?

Ans: (a) _____

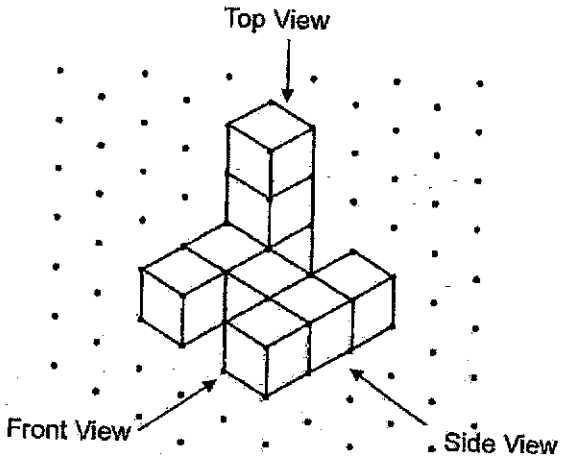
(b) How much did he spend on all the stationery in total?

Ans: (b) $_____

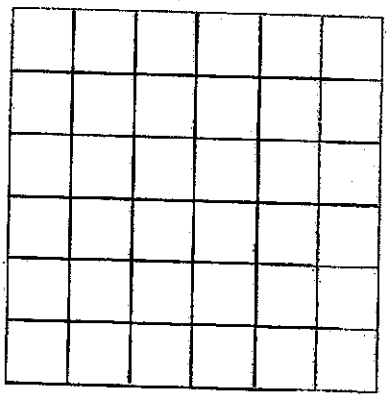
(Go on to the next page)

5. The following solid is made up of 9 unit cubes. Draw the top view and the side view of the solid.

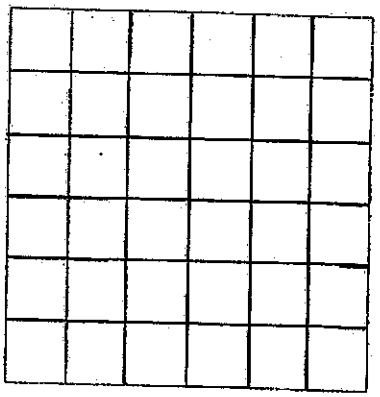
Do not write in this space



Top View



Side View



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

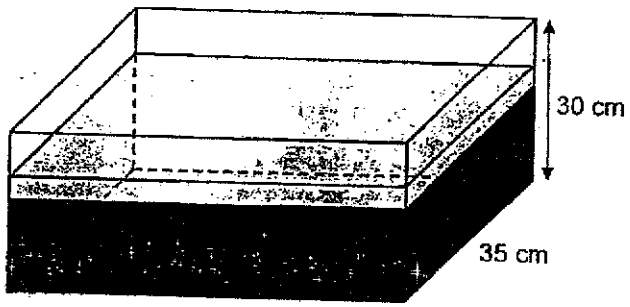
6. 2 soccer balls cost as much as 3 volleyballs. Mr Lim bought 2 soccer balls and 4 volleyballs for $266. Find the total cost of 2 such soccer balls.

Ans: _____ [3]

(Go on to the next page)

7. A rectangular tank 70 cm long by 35 cm wide by 30 cm high is filled up with water up to $\frac{3}{5}$ of its height. Water is then poured into the tank until it is filled with 58 ℓ of water. Find the amount of water that was poured into the tank. Give your answer in litres.

Do not write in this space



Ans: _____ [3]

(Go on to the next page)

8. The total amount of money that Alan, Betty and Kalen has is $34.20. The ratio of the amount of money Alan has to the amount of money Betty has is 2 : 3. Kalen has $10.60 less than Betty. How much money does Kalen has?

Do not write in this space

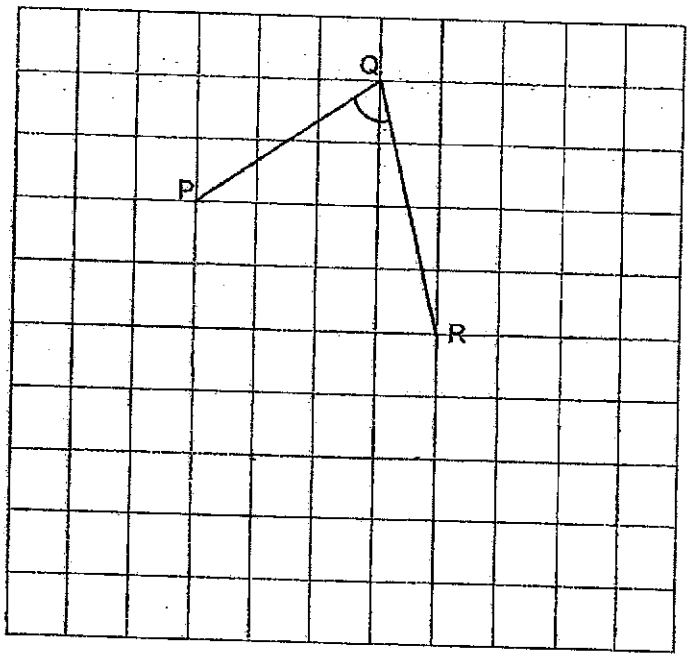
Ans: $ _____ [3]

9. In the square grid below, PQ and QR are straight lines.

Do not write in this space

(a) Measure and write down the size of ∠PQR.

(b) PQ and QR form two sides of a parallelogram PQRS. PQ is parallel to RS. Complete the drawing of parallelogram PQRS

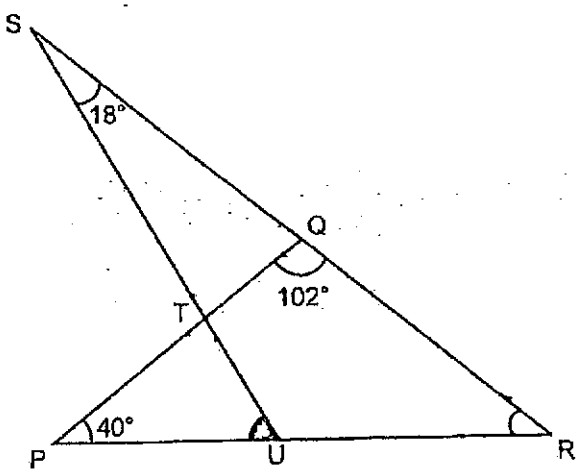


[2]

Ans: (a) _____ 1]

10. PQR and SRU are triangles. ∠RPQ is 40°, ∠PQR is 102° and ∠TSQ is 18°. Find ∠PUT.

Do not write in this space



Ans: _____ [3]

11. A tank was completely filled with water. A pump was turned on for some time to drain water out of the tank. The line graph shows the volume of water in the tank over 40 minutes.

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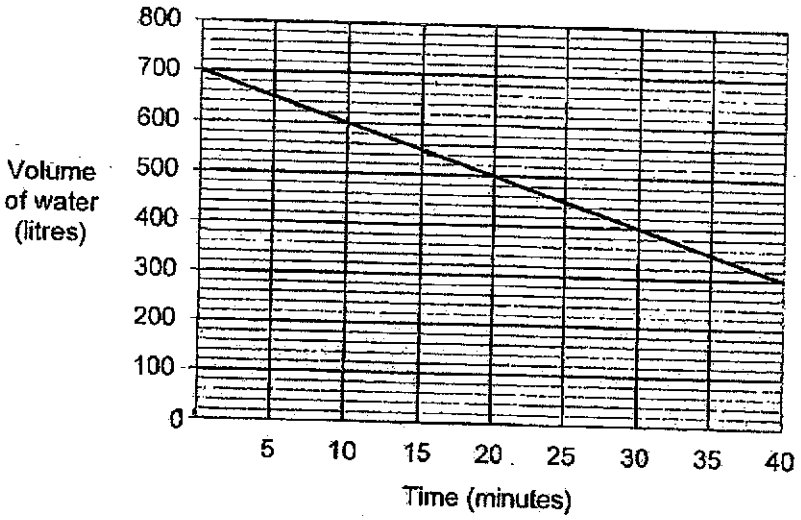

(a) How much water was drained out of the tank in one minute?

Ans: (a) _____ [2]

(b) At the same rate, how long would it take for the water to be completely drained out of the tank after the 40 minutes?

Ans: (b) _____ [2]

(Go on to the next page)

12. ABCD is a rhombus and DCEF is a parallelogram. DGC is a straight line.

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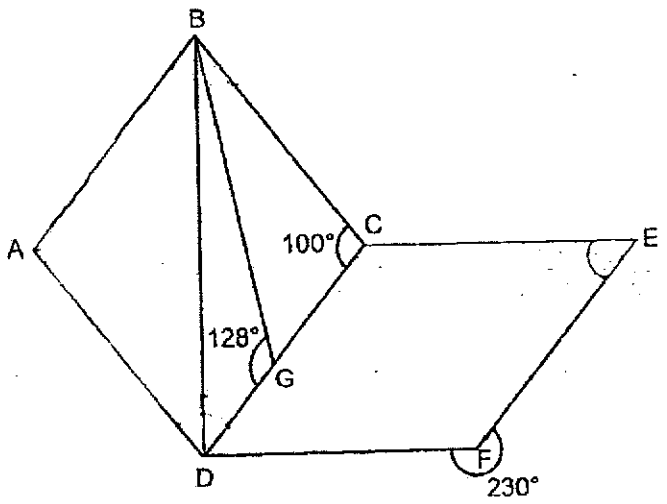

(a) Find ∠CEF.

Ans: (a) _____ [2]

(b) Find ∠DBG.

Ans: (b) _____ [2]

(Go on to the next page)

13. At a charity bake sale, each person bought either 2 muffins, 5 muffins or 7 muffins. $\frac{3}{10}$ of the people bought 2 muffins, $\frac{11}{20}$ of the people bought 5 muffins and the rest bought 7 muffins.

Do not write in this space

(a) What was the ratio of the number of people who bought 2 muffins to the number of people who bought 5 muffins to the number of people who bought 7 muffins?

Ans: (a) _____ [1]

(b) The number of people who bought 2 muffins were 147 more than those who bought 7 muffins. Each muffin was sold at $1.50. How much money was collected from the people who only bought 2 muffins?

Ans: (b) _____ [3]

(Go on to the next page)

14. Ali received $500 as a prize. He gave $225 to his parents. He saved $123 and used the remaining amount of prize money to pay for a total of 24 cupcakes and tarts.

Do not write in this space

(a) What percentage of the prize money did Ali give to his parents?

Ans: (a) _____ [2]

(b) Cupcakes were sold at $5 each and tarts were sold at $7 each. How many tarts did Ali buy?

Ans: (b) _____ [3]

(Go on to the next page)

15. A company ordered an equal number of large tubs and small tubs of ice-cream for their Family Day.

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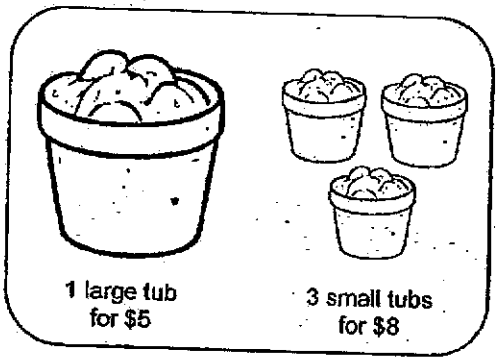

They paid a total of $112 more for the large tubs of ice-cream.

(a) How many tubs of ice-cream did the company order altogether? No.

Ans: (a) _____ [3]

(b) How much did the company pay for all the small tubs of ice-cream?

Ans: (b) _____ [2]

(Go on to the next page)

16. Mrs Lee bought some star-shaped keychains, square-shaped keychains and pens. Mrs Lee spent $\frac{3}{7}$ of her money on the star-shaped keychains and $\frac{5}{12}$ of her remaining money on 15 square-shaped keychains. The rest of her money was spent on the pens.

Do not write in this space

(a) What fraction of her money did she spend on the pens?

Ans: (a) _____ [1]

(b) How many keychains did she buy altogether?

Ans: (b) _____ [3]

(Go on to the next page)

17. The first three figures of a pattern are as shown below.

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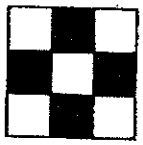


Figure 1

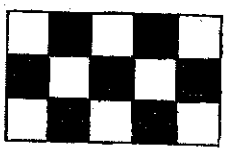


Figure 2

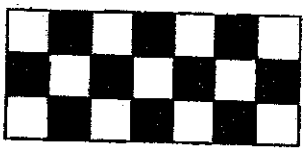


Figure 3

The table below shows the number of shaded squares and unshaded squares used for each figure.

Figure Number	Number of shaded squares	Number of unshaded squares
1	4	5
2	7	8
3	10	11
4		

[2]

(a) Complete the table for Figure 4.

(b) Find the total number of unshaded squares for Figure 47.

Ans: (b) _____ [2]

END OF PAPER 2

SCHOOL : CATHOLIC HIGH SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATHEMATICS
TERM : SA2

PAPER 1

BOOKLET A

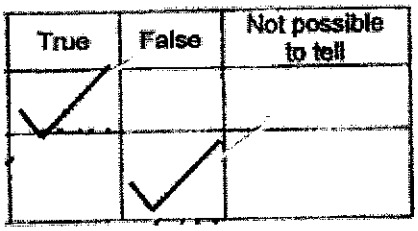
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
1	3	1	2	4	3	1	4
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
2	2	4	2	3	1	3	

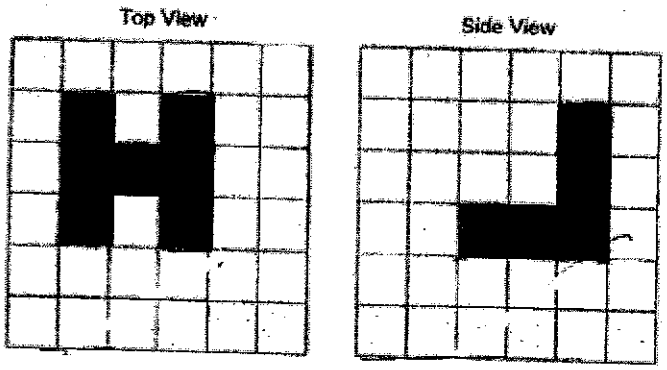
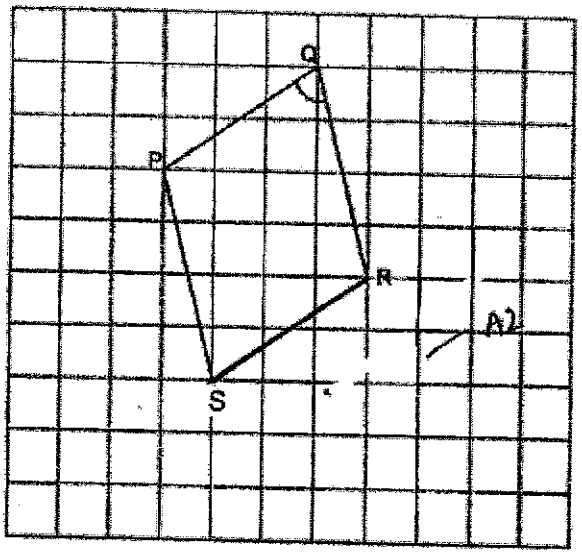
BOOKLET B

Q16	13011
Q17	3750
Q18	$\frac{1}{10}$
Q19	41 days
Q20	$6\frac{1}{2}$
Q21	48 ÷ 7 = 6.857 6.857 ≈ 6.86
Q22	2min = 10 posters 1min = 5 posters 145 ÷ 5 = 29
Q23	9u = 810 1u = 90 6u = 90 x 6 = 540
Q24	7u - 1u = 6u Box B + 1u = 3u

	Initially Box B = 2u Box A = 7u Total: 2u + 7u = 9u 7 : 9
Q25	2 x 2 x 8 = 32
Q26	360° - 60° - 60° - 60° - 32° = 148° 148° - 60° = 88°
Q27	L, M, K
Q28	215 ÷ 2 = 107.5
Q29	40 x 3 = 120 120 - 6 = 114 114 ÷ 3 = 38
Q30	33 ÷ 3 = 11 11 x 7 = 77

PAPER 2

Q1	1 ticket = $196 ÷ 4 = $49 100% = $49 1% = $49 ÷ 100 = $0.49 20% = $0.49 x 20 = $9.80
Q2	
Q3	50 + 85 + 75 + 20 = 240 240 ÷ 5 = 48
Q4 (a)	Notepads
Q4 (b)	$32.10

Q5	
Q6	7 volleyballs = $266 1 volleyball = $266 ÷ 7 = $38 3 volleyballs = 2 soccer balls = $38 x 3 = $114
Q7	70 x 35 x 30 = 73500 73500 ÷ 5 = 14700 14700 x 3 = 44100 58000 - 44100 = 13900 13900ml = 13.9L
Q8	$34.20 + $10.60 = $44.80 1u = $44.80 ÷ 8 = $5.60 3u = $5.60 x 3 = $16.80 $16.80 - $10.60 = $6.20
Q9 (a)	70°
Q9 (b)	
Q10	∠SQT = 180° - 102° = 78°

	∠SQT = ∠PTU = 180° - 18° - 78° = 84° ∠PUT = 180° - 40° - 84° = 56°
Q11 (a)	700 - 600 = 100 100 ÷ 10 = 10L 10L of water drained out from the tank in a minute.
Q11 (b)	100L = 10 min 300L = 10 x 3 = 30 min It would take another 30 minutes.
Q12 (a)	360° -230° = 130° 180° - 130° = 50°
Q12 (b)	180° - 100° = 80° 80° ÷ 2 = 40° 180° - 40° - 128° = 12°
Q13 (a)	$\frac{6}{20} + \frac{11}{20} = \frac{17}{20}$ $1 - \frac{17}{20} = \frac{3}{20}$ 6 : 11 : 3
Q13 (b)	3u = 147 1u = 147 ÷ 3 = 49 6u = 49 x 6 =- 294 Total muffins bought = 294 x 2 = 588 588 x $1.50 = $882
Q14 (a)	$\frac{225}{500}$ x 100% = 45%
Q14 (b)	$500 - $225 - $123 = $152 $7 x 24 = $168 $168 - $152 = $16 7 - 5 = 2 $16÷ 2 = $8 $24 - $8 = $16
Q15 (a)	1st group of 3L and 3S = (5 x 3) - 8 = 7 No . of groups = 112 ÷ 7 = 16 16 groups = 16 x (3 + 3) = 96 tubs
Q15 (b)	8 x 16 = 128

Q16 (a)	21u - 9u - 5u = 7u $\frac{7}{21} = \frac{1}{3}$
Q16 (b)	5u = 15 1u = 3u 9 + 5 = 14 14u = 3 x 14 = 42
Q17 (a)	13, 14
Q17 (b)	No. shaded squares 47 x 3 = 141 141 + 1 = 142 142 + 1 = 143