Name : _____( )

Class : Primary 5 SY / C

Mathematics Teachers : Miss Wong / Mrs Tan

SINGAPORE CHINESE GIRLS' SCHOOL
END-OF-YEAR EXAMINATION

PRIMARY 5 24 Oct 2024

MATHEMATICS
PAPER 1
(BOOKLET A)

Additional materials: Optical Answer Sheet (OAS) **Total Time for Booklets A and B: 1 h**

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a 2B pencil to shade your answers on the Optical Answer Sheet (OAS).
5. The use of calculators in **NOT** allowed.

This booklet consists of 6 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) on the Optical Answer Sheet.

(20 marks)

1. What is three hundred and sixty thousand and six hundred in numerals?

   (1) 306 006
   (2) 306 600
   (3) 360 060
   (4) 360 600

2. What is the value of $50 - (5 + 25 \div 5)$?

   (1) 14
   (2) 40
   (3) 44
   (4) 50

3. Express 4.04 as a mixed number.

   (1) $\frac{404}{1000}$
   (2) $4\frac{4}{10}$
   (3) $4\frac{4}{100}$
   (4) $4\frac{4}{1000}$

4. What is the missing number in the box?

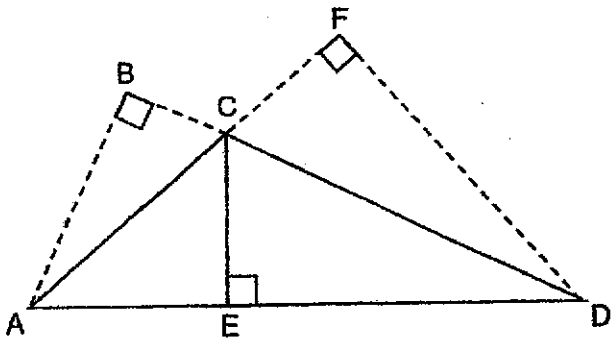
$12 : 36 = \boxed{\ ?\ } : 42$

(1) 6
(2) 14
(3) 18
(4) 21

5. Which percentage is greater than 0.1 but less than 0.15?

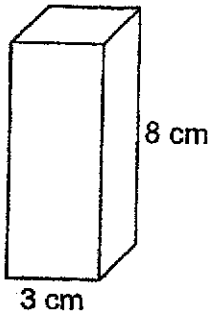
(1) 0.14%
(2) 1.2%
(3) 12%
(4) 15%

6. In the figure below, AC is the base of triangle ACD.
Identify the height of triangle ACD.



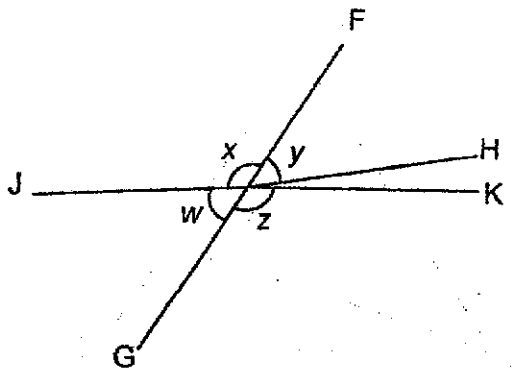
(1) AB
(2) CD
(3) DF
(4) EC

7. The following cuboid has a square base of 3 cm and height of 8 cm. What is the volume of the cuboid?



(1) 14 cm^3
(2) 19 cm^3
(3) 72 cm^3
(4) 192 cm^3

8. FG is a straight line. Which of the following statements are **true**?



(1) $\angle x = \angle z$
(2) $\angle x + \angle w = 180°$
(3) $\angle w = \angle y$
(4) $\angle w + \angle x + \angle y + \angle z = 360°$

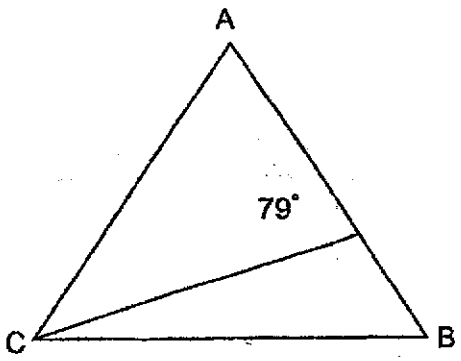
9. Jamie read an average of 72 pages of a book in a day. She finished reading the book in 9 days. How many pages are there in the book?

(1) 72
(2) 81
(3) 576
(4) 648

10. Which of the following is **not** an example of rate?

(1) I scored 75 marks in a test last week.
(2) A typist can type 50 words in a minute.
(3) The car travelled at 90 km in an hour.
(4) A worker is paid $100 every day.

11. Triangle ABC is an equilateral triangle. Find ∠x.



(1) 19°
(2) 20°
(3) 30°
(4) 41°

12. A number when divided by 8 gives a remainder of 3. Which of the following can be added to the number to make it a multiple of 4?

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

13. Matthew uses ovals, diamonds and stars to form a pattern.
The first 16 shapes in the pattern are shown below.

1st 16th

He used 15 diamonds to make the pattern.
Find ratio of the number of diamonds to the number of ovals in the pattern.

(1) 7 : 15
(2) 8 : 15
(3) 15 : 7
(4) 15 : 8

14. There are 12 lamp-posts on a straight path. The lamp-posts are installed 0.14 km apart from one another. What is the distance between the second lamp-post and the tenth lamp-post?

(1) 0.98 km
(2) 1.12 km
(3) 1.4 km
(4) 1.68 km

15. The average daily allowance of 5 students is $4.
Another student joined in and their average daily allowance increased to $4.30.
How much daily allowance did the last student receive?

(1) $1.50
(2) $1.80
(3) $4.30
(4) $5.80

END OF BOOKLET A

Booklet B

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. **(5 marks)**

16. Use the digits below to form a number closest to 6000.

1	5	6	8

Ans: _____

17. Calculate $\frac{3}{8} \times \frac{4}{7}$.

Ans: _____

18. Danielle has 5 times as many stamps as Jackson. Danielle has 40 stamps more than Jackson. How many stamps does Jackson have?

Ans: _____

3

19. Write down a decimal between 4.6 and 4.7.

Ans: _____

20. Subtract $1\frac{2}{5}$ from $5\frac{2}{3}$.

Ans: _____

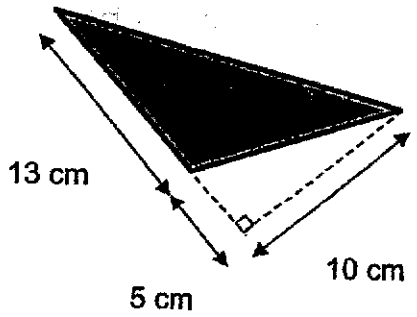
2

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. **(20 marks)**

21. Peter ran 3.8 km and Evelyn ran 400 m more than Peter. Calculate the total distance Evelyn and Peter ran in metres.

Ans: _____ m

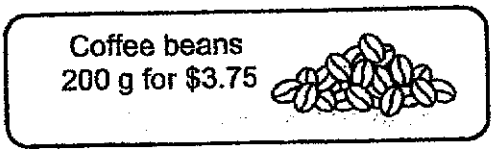
22. Find the area of the shaded triangle.



Ans: _____ cm^2

4

23. Mrs Tan bought 2 kg of coffee beans at the price shown below.



How much did Mrs Tan pay for her coffee beans?

Ans: $_____

24. Karen has some red and blue marbles. For every 4 red marbles, there are 9 blue marbles. There are 36 red marbles. How many blue marbles are there?

Ans: _____ /4

25. 150 students participated in an animation competition. The table shows the number of students who attained grades A to E.

Grade	Number of students
A	10
B	35
C	52
D	30
E	23

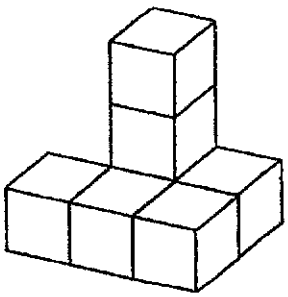
A certificate of achievement will be awarded to the top 30% of the students. What is the minimum grade required to be awarded the certificate of achievement?

Ans: _____ 2

26. Gerald deposited $3000 in his savings account which paid him an interest of 3% per year. How much interest did he receive at the end of the year?

Ans: $_____

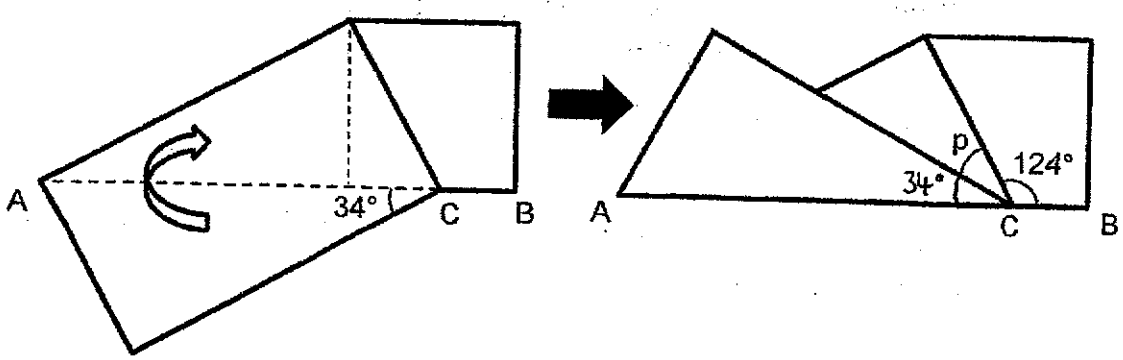
27. The solid below is made up of 7 identical cubes.



What is the minimum number of cubes needed to be added on to form a cube?

Ans: _____ /4

28. Yvonne pasted a rectangular piece of paper on a square piece of paper. She folded it along AC as shown below. AB is a straight line. Find ∠p.



Ans: _____ °

2

29. The table below shows the carpark rates for at Sands Mall.

Carpark Rates
For the first hour	$7
For every additional $\frac{1}{2}$ h or part thereof	$3

Casper parked his car at Sands Mall from 11 a.m. to 1.20 p.m. How much did he pay for parking?

Ans: $_____ /2

30. The table below shows the points that Siti, James and Singh scored in a game. Their average number of points scored is 48. Part of the table has been covered by an ink stain.

Name	Points
Siti	
James	4
Singh	50

Each of the statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) to indicate your answer.

Statement	True	False	Not possible to tell
The highest possible points James can score is 49.			
Singh scored the greatest number of points.			

2

End of Booklet B

Name : _____( )

Class : Primary 5 SY / C / G / SE / P

Mathematics Teachers : Miss Wong / Mrs Tan / Mrs Lau / Mrs Eng / Mrs Ong

SINGAPORE CHINESE GIRLS' SCHOOL
END-OF-YEAR EXAMINATION

PRIMARY 5

24 Oct 2024

MATHEMATICS
PAPER 2

Time: 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue pen to write your answers in the space provided for each question
5. Do not use correction fluid/tape or highlighters.
6. The use of an approved calculator is allowed.

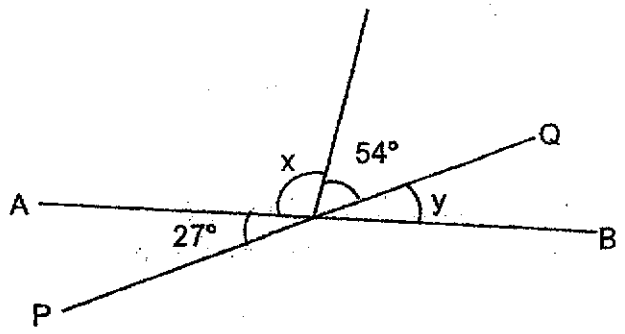
		Max Mark	Marks attained
Paper 1	Booklet A	20	
	Booklet B	25	
Paper 2		55	
Total Marks		100	

Parent's Signature

This booklet consists of 13 printed pages and 1 blank page.

Questions **1** to **5** 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. (10 marks)

1. In the figure below, AB and PQ are straight lines.



Find

(a) $\angle x$,

(b) $\angle y$.

Ans: (a) $\angle x$ = _____°

Ans: (b) $\angle y$ = _____°

2. Mrs Choo baked some tarts and muffins. After giving away $\frac{1}{4}$ of her tarts and $\frac{1}{7}$ of her muffins, she has the same number of tarts and muffins left. What is the ratio of the number of tarts to the number of muffins Mrs Choo bake?

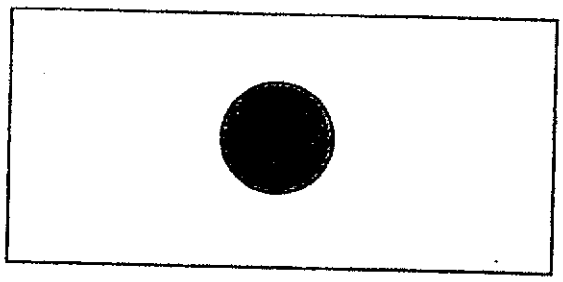
Ans: _____

4

3. A printer prints 684 pages in 38 minutes. How many pages can the printer print in an hour?

Ans: _____

4. The figure below shows a circle inside a rectangle.



The ratio of the area of circle to the area of rectangle is 3 : 19.
The area of the unshaded part is 40 cm^2. What is the area of the rectangle?

Ans: _____ cm^2

4

5. The table shows the number of buttons in each box.

Box	A	B	C	D
Number of buttons	123	?	146	?

There are more buttons in Box A than in Bag D.

Box B has the greatest number of buttons.

The total number of buttons in the four boxes is 580.

What is the smallest possible number of buttons in Box B?

Ans: _____

For questions **6** to **17**, show your working clearly 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)

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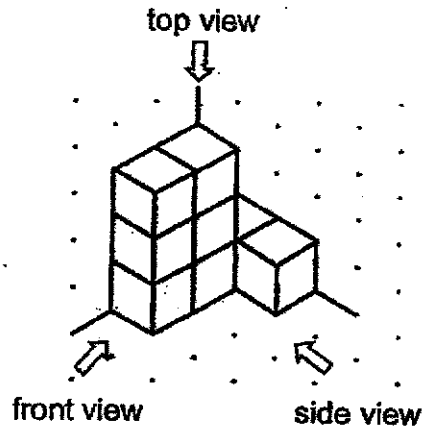
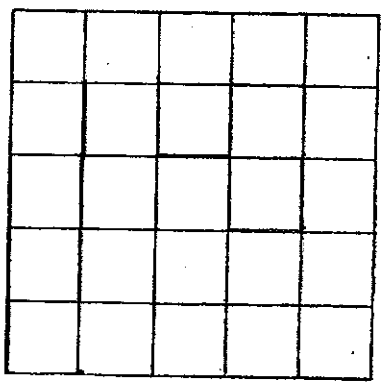
6. The figure below is made up of identical cubes of 2 cm^3 each.



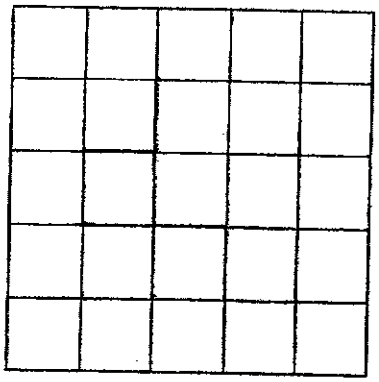
(a) What is the volume of the solid?

Ans: (a) _____ [1]

(b) Draw the top view and front view of the solid in the grids below.



top view



front view

[2]

3

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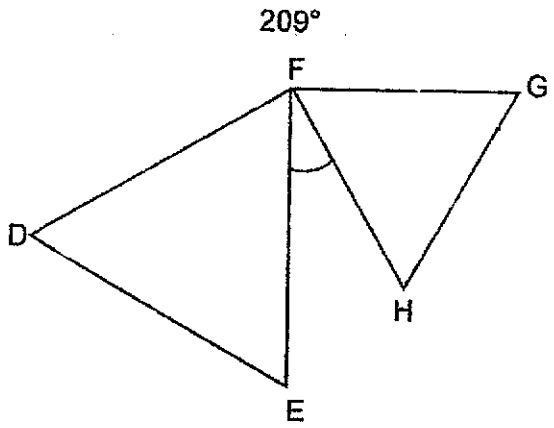
7. In the figure below, triangle DEF and triangle FGH are equilateral triangles.
Find $\angle EFH$.



Ans: _____ [3]

8. Lily paid $114 for 6 similar tops and 3 similar pair of shorts.
Hazel paid $92 for 3 similar tops and 4 similar pairs of shorts.
How much did each top cost?

Ans: _____ [3]

9. Mr Leo had 12.6 kg of flour. He kept $\frac{1}{3}$ of the flour and divided the remaining flour equally into 7 bags.

(a) What was the mass of the flour that Mr Leo kept for himself?

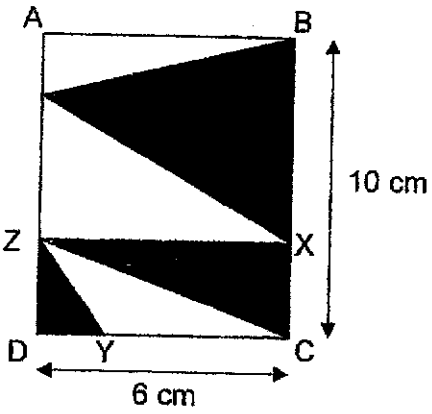
Ans: (a) _____ [1]

(b) How much flour was there in each bag?

Ans: (b)_____ [2]

3

10. ABCD is a rectangle. It is formed from six triangles as shown below. The area of triangle ZYD is $2cm^2$. Find the area of the shaded part.



Ans: _____ [3]

11. In June, Mr Chee saved 12% of his salary.
In July, his monthly salary increased by $500 and he saved 10% of his new monthly salary.
Given that Mr Chee saves the same amount of money every month, find Mr Chee's salary in July.

Ans: _____ [4]

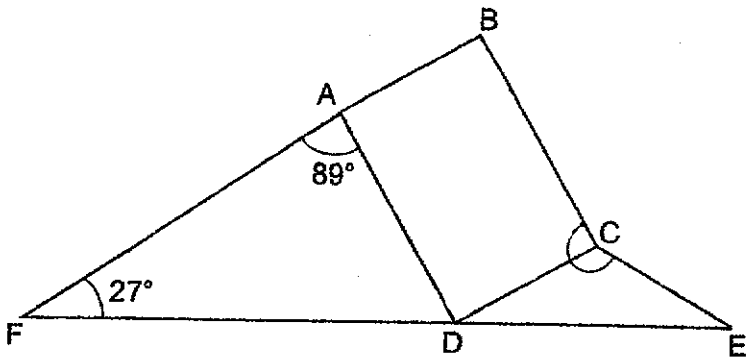
12. Mrs Nashwa had a bag of rice. Her family ate an equal amount of rice each week. After 6 weeks, she had $\frac{4}{7}$ of the rice left. After another 5 weeks, she had 2.1 kg of rice left. How much rice was in the bag at first?

Ans: _____ [3]

3

13. In the figure below, ABCD is a rectangle and FDE is a straight line. CDE is an isosceles triangle where CD = CE.

Find ∠BCE.



Ans: _____ [4]

14. A group of children took part in a survey on their favourite colour. $\frac{3}{5}$ of them like green, $\frac{1}{3}$ of the remainder and an additional 16 children like blue and the remaining 28 children like red. How many more children like green than blue?

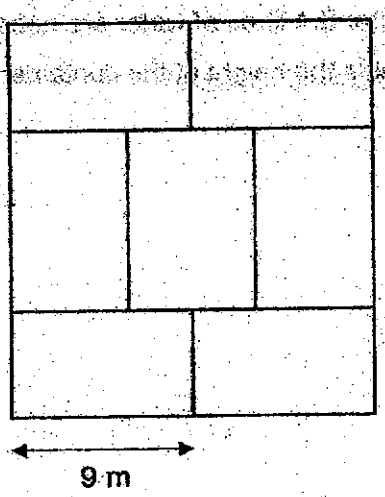
Ans: _____ [5]

5

15. A container has a square base with sides 24 cm each. Rajan fills $\frac{5}{9}$ of the container with water. Another 6.4 litres of water are needed to fill the container to the brim. What is the height of the container?

Ans: _____ [4]

16. The figure below is made up of 7 identical rectangles. The length of each rectangle is 9 m.



(a) Find the perimeter of the figure.

Ans: (a) _____ [3]

(b) Find the area of the figure.

Ans: (b) _____ [2]

5

17. Chloe and Arthur have the same number of coins. Chloe has a number of fifty-cent coins and 27 twenty-cent coins. Arthur has twice as many twenty-cent coins as Chloe.

(a) Who has more money? How much more?

Ans: (a) Name of child: _____

Amount: _____ [2]

(b) Given that Chloe has $33.40, how many fifty-cent coins does Arthur have?

Ans: (b) _____ [3]

5

End of Paper 2

~ Please check your work thoroughly. ~

EXAM PAPER 2024
LEVEL : PRIMARY 5
SCHOOL : SINGAPORE CHINESE GIRLS' SCHOOL
SUBJECT : MATHEMATICS
TERM : END OF YEAR EXAMINATIONS

PAPER 1
BOOKLET A

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

BOOKLET B

Q16. 5861

Q17. $\frac{3}{14}$

Q18. 10

Q19. 4.65

Q20. $4\frac{4}{15}$

Q21. 8000 m

Q22. 65 cm^2

Q23. $37.50

Q24. 81

Q25. Grade B

Q26. $90

Q27. 20

Q28. 22°

Q29. $16

Q30. True, Not possible to tell

PAPER 2

Q1. a) $180° - 54° - 27° = \underline{99°}$

b) $180° - 54° - 99° = \underline{27°}$

Q2. Tarts sold : Tarts left

1 : 3

4 : 12

Muffins sold : Muffins left

1 : 6

2 : 12

Tarts baked : Muffins baked

16 : 14

8 : 7

Q3. $684 \div 38 = 18$

$18 \times 60 = \underline{1080}$

Q4. $19 - 3 = 16$

$40 \div 16 = 2.5$

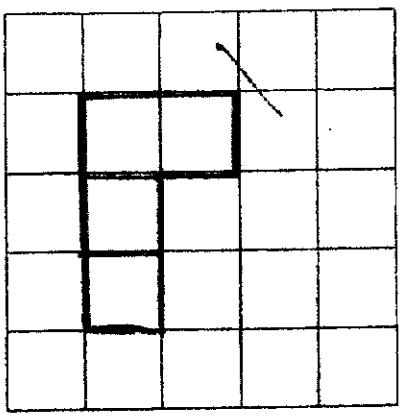
$19 \times 2.5 = \underline{47.5\ cm^2}$

Q5. $580 - 146 - 123 = 311$

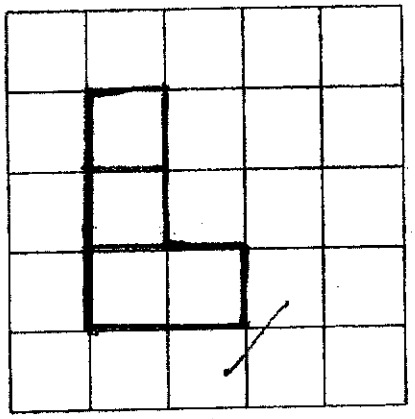
$311 - 122 = \underline{189}$

Q6. a) $8 \times 2 = \underline{16\ cm^3}$

b)



top view



front view

Q7. $360° - 209° - 60° - 60° = 31°$

Q8. $92 \times 2 = 184$

$184 - 114 = 70$

$70 \div 5 = 14$

$14 \times 3 = 42$

$114 - 42 = 72$

$72 \div 6 = \underline{\$12}$

Q9. a) $12.6 \div 3 = \underline{4.2\ kg}$

b) $4.2 \times 2 = 8.4$

$8.4 \div 7 = \underline{1.2\ kg}$

Q10. $\frac{1}{2} \times 2 \times 2 = 2$

$\frac{1}{2} \times 2 \times 6 = 6$

$10 - 2 = 8$

$\frac{1}{2} \times 8 \times 6 = 24$

$24 + 6 + 2 = \underline{32\ cm^2}$

Q11. $12 \times 10 = 120$

$120 \div 20 = 6$

$500 \times 6 = \underline{\$3000}$

Q12. $1 - \frac{4}{7} = \frac{3}{7}$

$\frac{3}{7} = \frac{6}{14}$

$1 - \frac{6}{14} - \frac{5}{14} = \frac{3}{14}$

$2.1 \div 3 = 0.7$

$0.7 \times 14 = \underline{9.8\ kg}$

Q13. $180° - 98° - 27° = 64°$

$180° - 90° - 64° = 26°$

$180° - 2(26°) = 128°$

$128° + 90° = \underline{218°}$

Q14. G : R

3 : 2

9 : 6

$\frac{1}{3} = \frac{2}{6}$

$1 - \frac{2}{6} = \frac{4}{6}$

$16 + 28 = 44$

$44 \div 4 = 11$

$11 \times 2 = 22$

$22 + 16 = 38$

$11 \times 9 = 99$

$99 - 38 = \underline{61}$

Q15. $6.4 \div 4 = 1.6$

$1.6 \times 9 = 14.4$

$14400 \div 24 \div 24 = \underline{25 \text{ cm}}$

Q16. a) $18 \div 3 = 6$

$6 \times 9 + 4 \times 6 = \underline{78 \text{ m}}$

b) $7 \times 9 \times 6 = \underline{378 \text{ m}^2}$

Q17. a) $0.50 - 0.20 = 0.30$

$27 \times 0.30 = \$8.10$

Ans: <u>Chloe. $8.10</u>

b) $33.40 - 8.10 = 25.30$

$27 \times 2 \times 0.20 = 10.80$

$25.30 - 10.80 = 14.50$

$14.50 \div 0.50 = \underline{29}$

4

END