



**CATHOLIC HIGH SCHOOL**  
**SEMESTRAL ASSESSMENT ONE (2018)**  
**PRIMARY FIVE**  
**MATHEMATICS**  
**PAPER 1**  
**(BOOKLET A)**

Name : \_\_\_\_\_ ( )

Class : Primary 5 \_\_\_\_\_

Date : 9 May 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.

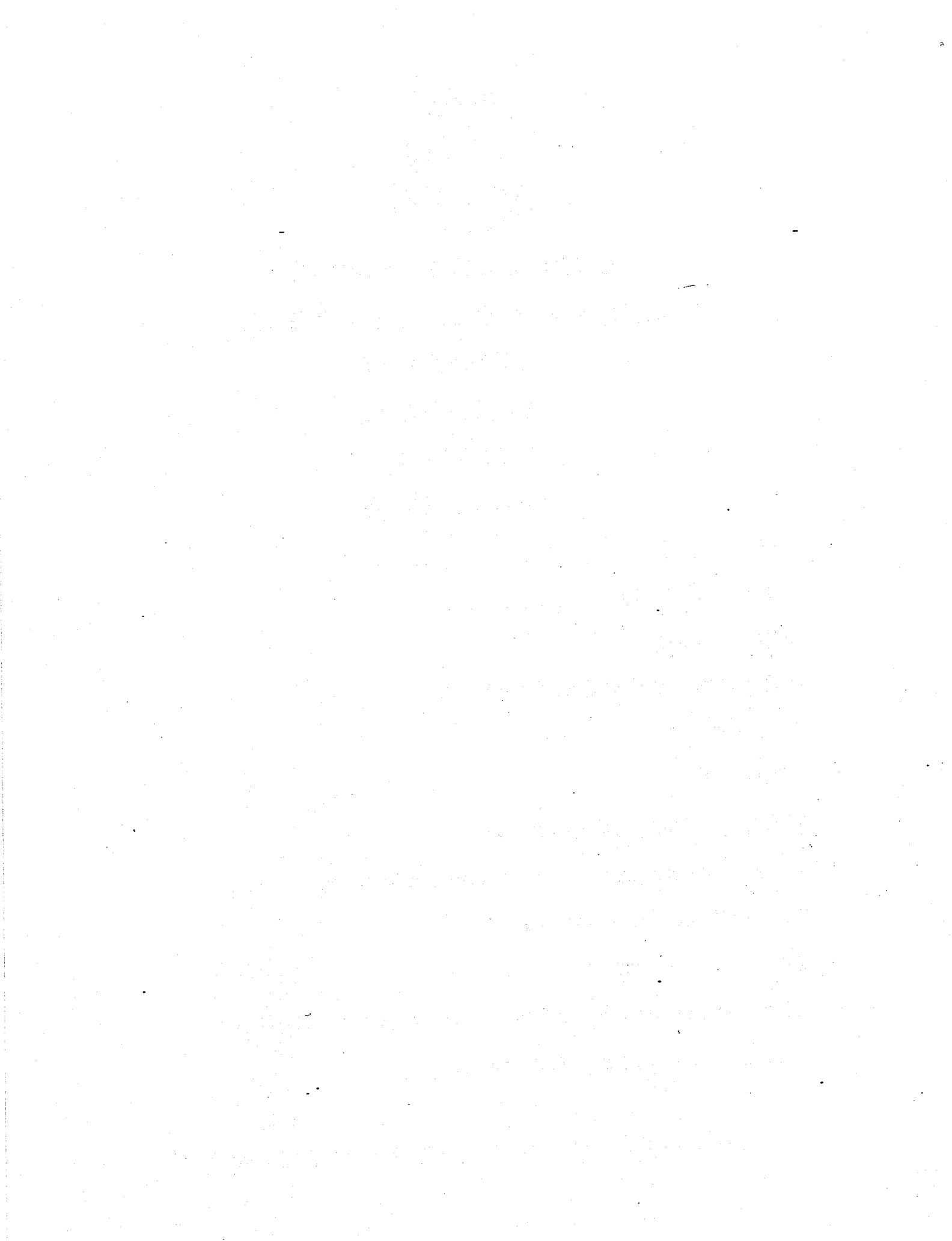
Follow all instructions carefully.

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 14 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. In 12 456, what does the digit '4' stand for?

- (1) 40
  - (2) 400
  - (3) 4000
  - (4) 4
- 

2. What is the missing number in the box below?

$$9\ 145\ 000 = 9\ 000\ 000 + \boxed{\phantom{000}} + 5000$$

- (1) 140
  - (2) 1400
  - (3) 14 000
  - (4) 140 000
- 

3. Find the product of 170 and 20.

- (1) 340
  - (2) 3400
  - (3) 34 000
  - (4) 340 000
- 

4. There are 36 pupils in a class. 27 of the pupils are girls and the rest are boys. What is the ratio of the number of boys to the number of girls?

- (1) 1 : 3
  - (2) 1 : 4
  - (3) 3 : 1
  - (4) 3 : 4
-

5. Find the value of  $\frac{5}{7} - \frac{2}{3}$ .

(1)  $\frac{1}{21}$

(2)  $\frac{3}{7}$

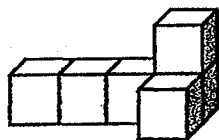
(3)  $\frac{7}{10}$

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

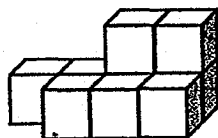
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6. Which of the following solids has the greatest volume?

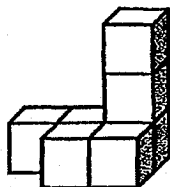
(1)



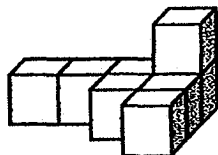
(2)



(3)



(4)



7. Find the value of  $\frac{1}{8} \times 4$ .

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

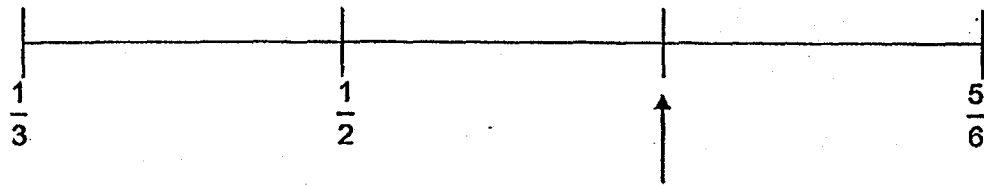
(2)  $\frac{3}{8}$

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

(4)  $\frac{5}{8}$

---

8. In the number line below, the fractions are placed at equal intervals. What is the fraction indicated by the arrow?



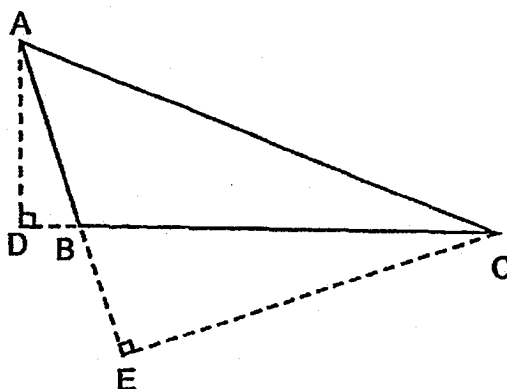
(1)  $\frac{1}{6}$

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

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

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

9. In the figure below, ABC is a triangle. Given that EC is the height, what is the base of triangle ABC?



- (1) AB  
(2) AC  
(3) AD  
(4) AE
- 
10. 5 m of string was used to tie 6 parcels. An equal length was used to tie each parcel. Find the length of string used for each parcel.

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

11. What is the missing number in the box below?

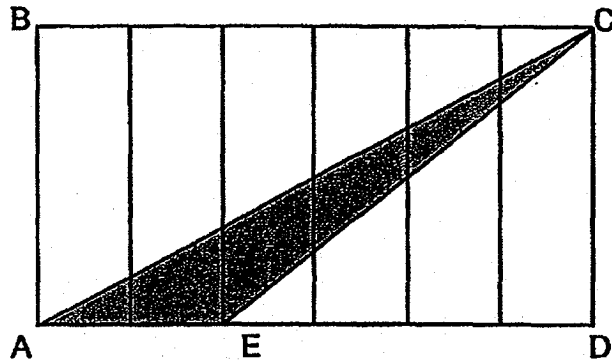
$$4 : 6 = \boxed{\phantom{00}} : 9$$

- (1) 5
  - (2) 7
  - (3) 3
  - (4) 6
- 

12. John and Peter shared some marbles in the ratio of 7 : 5. John had 24 more marbles than Peter. How many marbles did Peter have?

- (1) 12
  - (2) 60
  - (3) 84
  - (4) 144
-

13. The figure ABCD is made up of 6 identical rectangles. ACE is a triangle. What fraction of the figure ABCD is shaded?



- (1)  $\frac{1}{12}$   
(2)  $\frac{1}{6}$   
(3)  $\frac{1}{2}$   
(4)  $\frac{1}{3}$

- 
14. A bottle of 20 sweets weighs 1000 g. The same bottle with 30 sweets weighs 1400 g. Each sweet has the same mass. What is the mass of each sweet?

- (1) 40 g  
(2) 50 g  
(3) 200 g  
(4) 400 g
-

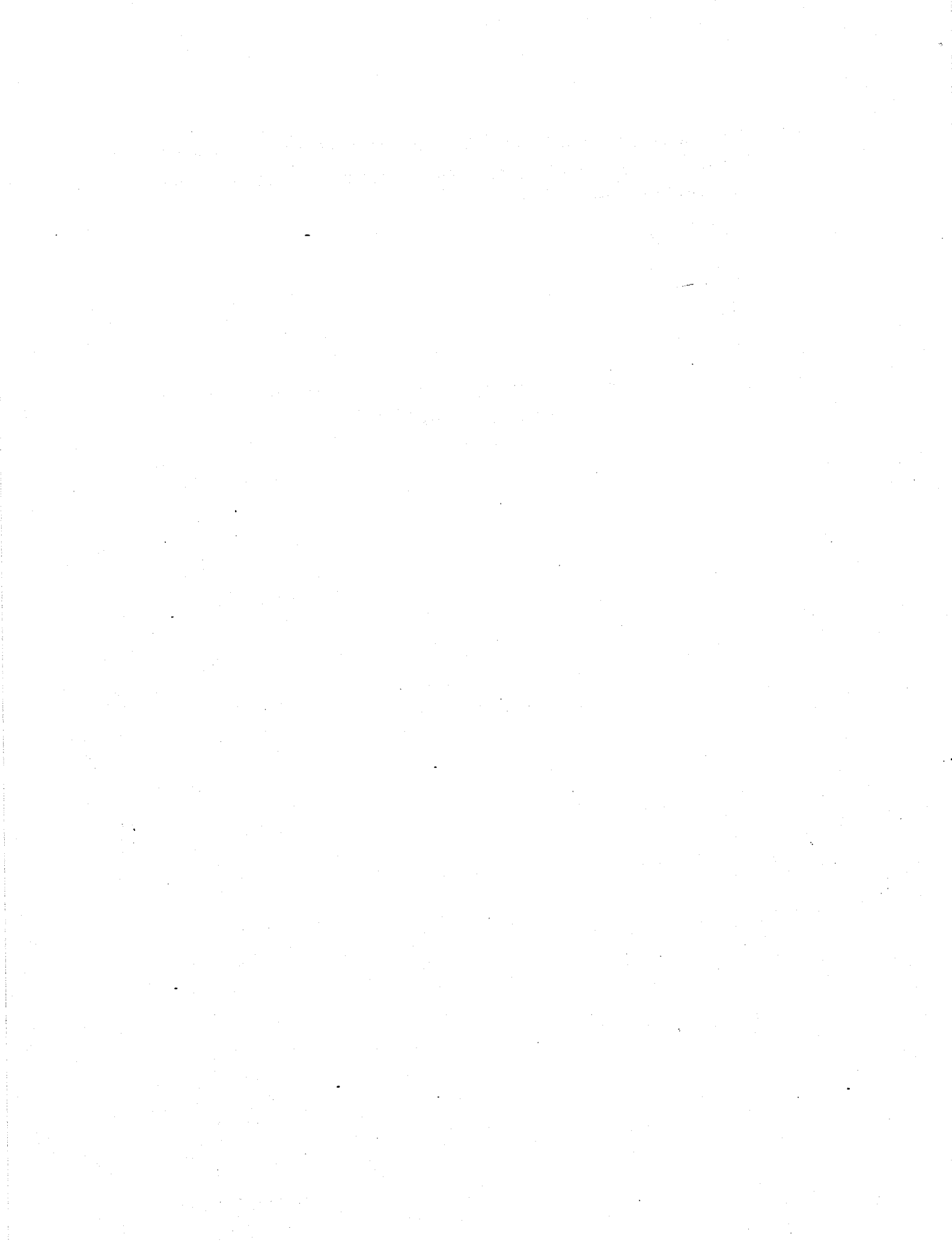


15. In a library,  $\frac{1}{4}$  of the number of fiction books is equal to  $\frac{2}{3}$  of the number of non-fiction books. What is the ratio of the number of fiction books to the number of non-fiction books?

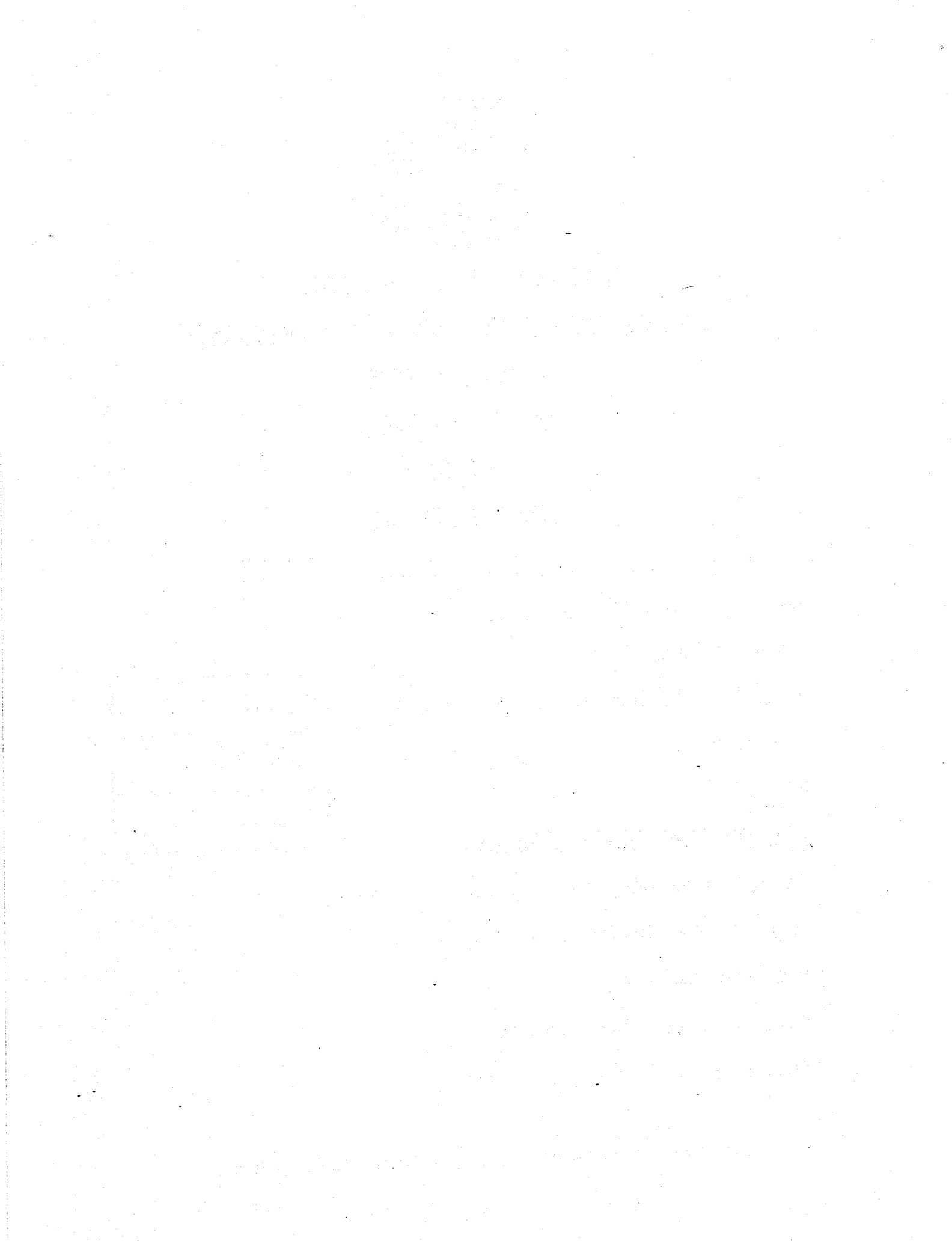
- (1) 1 : 2
- (2) 4 : 3
- (3) 8 : 3
- (4) 3 : 8

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END OF BOOKLET A







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)

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16. Write five hundred and fifty thousand and twelve in figures.

Ans: \_\_\_\_\_

17. What is the volume of a cube of edge 5 cm?

Ans: \_\_\_\_\_ cm<sup>3</sup>

18. There are 30 apples, 12 bananas and 15 oranges in a box. What is the ratio of the number of apples to the number of bananas to the number of oranges? Leave your answer in the simplest form.

Ans: \_\_\_\_\_

19. Express 7 l 20 ml in  $\text{cm}^3$ .

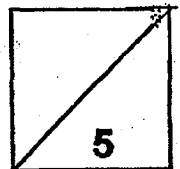
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Ans: \_\_\_\_\_  $\text{cm}^3$

20. Mary had  $\frac{2}{7}$  m of cloth. She used  $\frac{3}{4}$  of it to make a dress.  
How much cloth did she use to make the dress?

Ans: \_\_\_\_\_ m

Total marks for questions 16 to 20



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)

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21. What is the value of  $51 - 49 + 7 + 6$ ?

Ans: \_\_\_\_\_

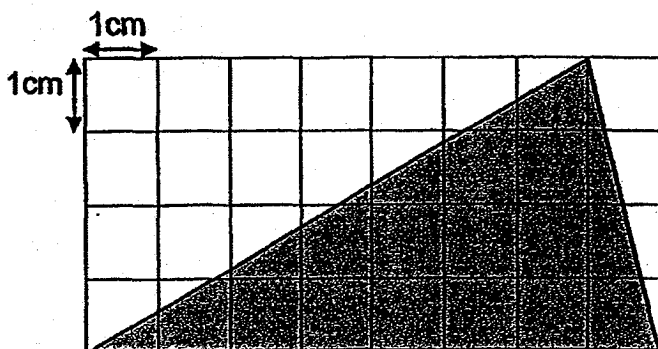
22. Mrs Lee bought some fruits.  $\frac{3}{5}$  of them were pears and the remaining fruits were apples.  $\frac{1}{4}$  of the apples were green. What fraction of the fruits were green apples?

Ans: \_\_\_\_\_

23. When Jamie feeds her fish 11 pellets a day, a can of pellets will last 18 days. If all the cans of pellets have the same amount of pellets, how many days will the same can of pellets last when she feeds her fish 9 pellets a day?

Ans: \_\_\_\_\_

24. In the square grid below, find the area of the shaded triangle.



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Ans: \_\_\_\_\_ cm<sup>2</sup>

25. Phyllis had a total of 20 rulers and pencils. She decided to exchange every 1 ruler for 2 pencils. She had a total 32 pencils after the exchange. How many rulers did she have at first?

Ans: \_\_\_\_\_

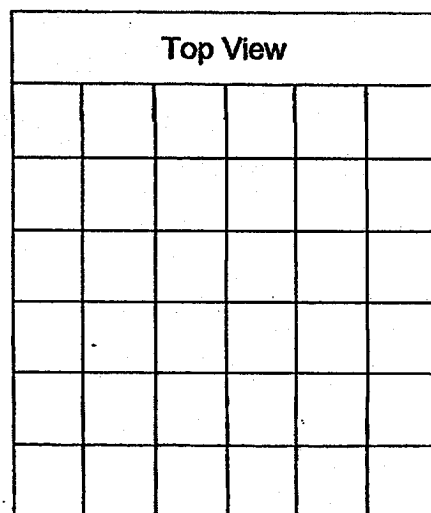
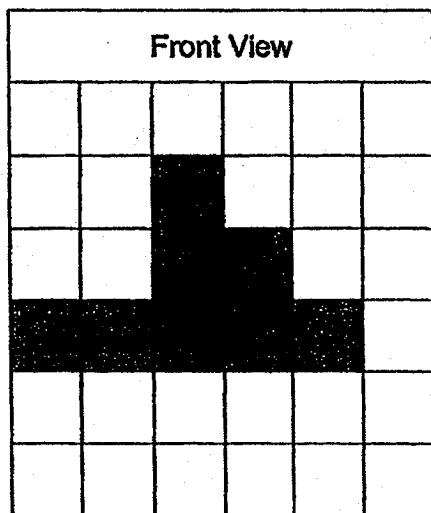
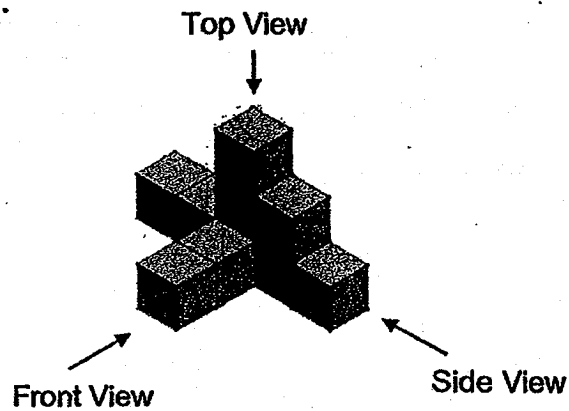


26. Janice is 4 times as heavy as Kevin. The total mass of Janice and Kevin is 65 kg. How heavy is Kevin?

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Ans: \_\_\_\_\_ kg

27. The following solid is made up of 10 cubes. Its front view has been drawn as-shown below. Draw the top view of the solid on the square grid provided.

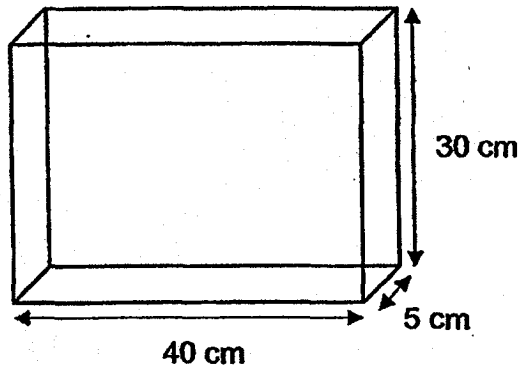


28. 13 boys decided to fold an equal number of origami cranes each. 1 boy fell sick and the rest had to fold 2 more origami cranes each. How many origami cranes were folded altogether?

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Ans: \_\_\_\_\_

29. An empty rectangular container measures 40 cm by 5 cm by 30 cm.



How much water must be poured into the tank so that the tank will be half-filled with water?

Ans: \_\_\_\_\_  $\text{cm}^3$

30. At a carnival, there are some adults and children.  $\frac{2}{5}$  of the people are adults and  $\frac{1}{5}$  of the people are boys.

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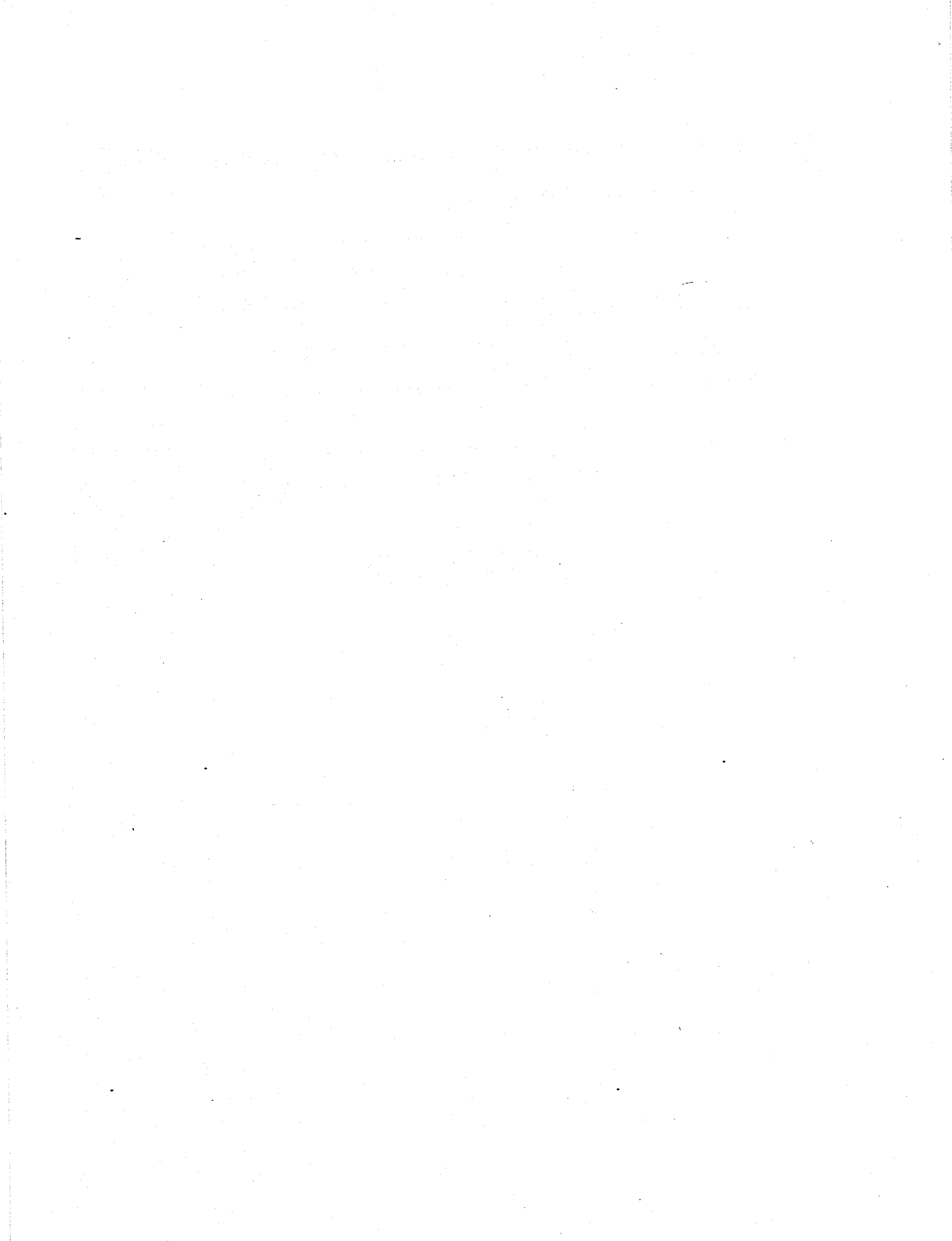
	True	False	Not possible to tell
There are more adults than children.			
There are more men than boys.			

Total marks for questions 21 to 30

/

20

END OF BOOKLET B  
END OF PAPER 1





**CATHOLIC HIGH SCHOOL**  
**SEMESTRAL ASSESSMENT ONE (2018)**  
**PRIMARY FIVE**  
**MATHEMATICS**  
**PAPER 2**

Name : \_\_\_\_\_ (                    )

Class : Primary 5 \_\_\_\_\_

Date : 9 May 2018

Total Time: 1 h 30 min

17 questions

55 marks

Parent's Signature: \_\_\_\_\_

Paper 1 Booklet A	<b>20</b>
Paper 1 Booklet B	<b>25</b>
Paper 2	<b>55</b>
Total Marks	<b>100</b>

**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.



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. Adam bought  $4\frac{1}{2}$  kg of durians at \$18 per kilogram. How much did he pay for the durians?

Ans: \$ \_\_\_\_\_

2. Geraldine had 8 m of ribbon. She gave  $3\frac{2}{5}$  m of it to Ansel and the rest to Berry. How much more ribbon did Berry have than Ansel?

Ans: \_\_\_\_\_ m

3. Stephen and Rachael had the same amount of money at first. After Stephen spent \$120 and Rachael spent \$900, Stephen had thrice as much money as Rachael. How much money did Rachel have in the end?

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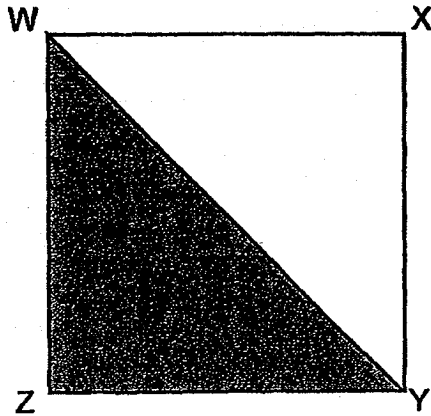
Ans: \$ \_\_\_\_\_

4. There were 54 chickens, ducks and rabbits in a farm.  $\frac{1}{2}$  of the animals were chickens.  $\frac{2}{3}$  of the remaining animals were ducks and the rest were rabbits. How many rabbits were there in the farm?

Ans: \_\_\_\_\_



5. In the figure below, WXYZ is a square and WYZ is a triangle. The perimeter of WXYZ is 128 cm. Find the area of triangle WYZ.



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Ans: \_\_\_\_\_ cm<sup>2</sup>

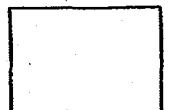


For questions 6 to 17, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.  
(45 marks)

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6. The number of Singapore stamps to the number of Malaysia stamps to the number of Thailand stamps was  $8 : 5 : 2$ . There were 180 stamps in total. How many more Singapore stamps than Malaysia stamps were there?

Ans: \_\_\_\_\_ [3]



7. Betty had 1565 g of flour. She used 356 g of flour to bake some cakes. She then packed the remaining flour into 6 packets of 108 g each. How many grams of flour were left unpacked?

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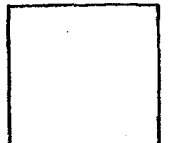
Ans: \_\_\_\_\_ [3]



8. Adam had 42 more toy cars than Beckham. After Adam gave 118 toy cars to Beckham, Beckham had thrice as many toy cars as Adam. How many toy cars did Adam have in the end?

Do not write  
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Ans: \_\_\_\_\_ [3]



9. At a carnival, a stall only sold 20 l of lemonade. The lemonade was sold only in 200 ml cups and 300 ml cups. An equal number of 200 ml cups and 300 ml cups were sold. How many cups of lemonade did the stall sell altogether?

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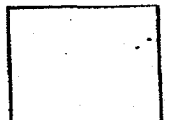
Ans: \_\_\_\_\_ [3]



10. Mrs Chan bought some pencils for a group of pupils.  
If she gave each pupil 3 pencils, she would have 13 pencils left.  
If she gave each pupil 5 pencils, she would need 5 more pencils.  
How many pupils were there in the group?

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Ans: \_\_\_\_\_ [3]



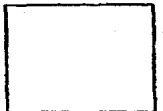
11. There were 140 red and blue beads in a box at first. The ratio of the number of red beads to the number of blue beads is 2 : 5. Janice took out an equal number of red and blue beads. Janice counted the beads in the box again and found out that there were now a total of 110 beads.

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- a) How many red beads did she take out?
- b) How many blue beads were there at first?

Ans: a) \_\_\_\_\_ [2]

b) \_\_\_\_\_ [2]



12. Ramona baked some pies.  $\frac{1}{7}$  of the pies were apple pies and the rest were blueberry pies. She sold  $\frac{1}{4}$  of the apple pies and 22 blueberry pies. She then had  $\frac{4}{7}$  of the pies left. How many pies did she bake at first?

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Ans: \_\_\_\_\_ [4]

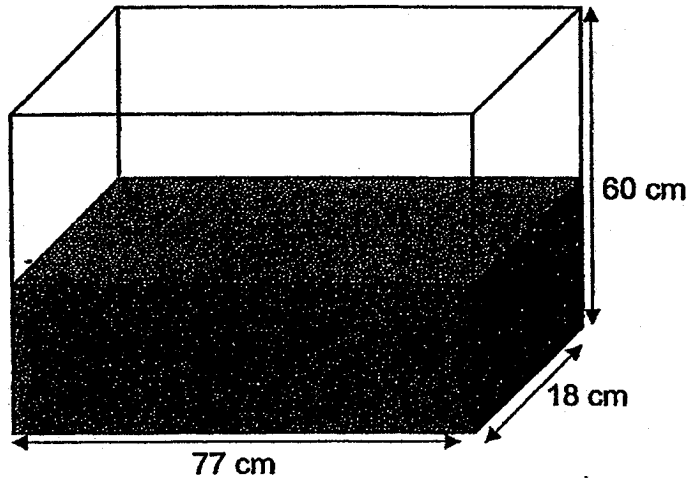




13. A rectangular container measures 77 cm by 18 cm by 60 cm.  
It is  $\frac{4}{9}$  filled with water.

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- a) Find the volume of water in the tank.  
b) James filled the rest of the tank completely with cups of water filled to the brim. The capacity of each cup of water is 550 ml. How many complete cups of water did he use to fill the rest of the tank?



Ans: a) \_\_\_\_\_ [2]

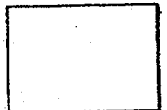
b) \_\_\_\_\_ [2]



14. Alison had 270 stickers. She gave  $\frac{2}{5}$  of her stickers to her brother and  $\frac{1}{3}$  of her stickers to her cousin. She then distributed the remaining stickers equally to her 12 friends. How many stickers did each friend receive?

Do not write  
in this space

Ans: \_\_\_\_\_ [4]



15. Grace had some candies. She ate  $\frac{2}{7}$  of the total amount of candies in the first week. In the second week, she ate 21 candies fewer than what she ate in the first week. She was left with 54 candies. How many candies did she have at first?

Do not write  
in this space

Ans: \_\_\_\_\_ [4]



16. The total cost of 4 identical erasers and 6 identical rulers was \$5.20.  
The total cost of 2 identical erasers and 4 identical rulers was \$3.20.
- a) What was the cost of 1 ruler?
  - b) Hector had \$5. What was the maximum number of rulers that he could buy?

Do not write  
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Ans: a) \_\_\_\_\_ [3]

b) \_\_\_\_\_ [2]



17. Jeremy spent  $\frac{1}{6}$  of his money and an additional \$22 on some food. He spent  $\frac{2}{3}$  of the remaining money and an additional \$35 on some drinks. Given that he was left with \$11, how much money did he have at first?

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Ans: \_\_\_\_\_ [5]



END OF PAPER 2



SCHOOL : CATHOLIC HIGH SCHOOL  
LEVEL : PRIMARY 5  
SUBJECT : MATH  
TERM : 2018 SA1

**PAPER 1 BOOKLET A**

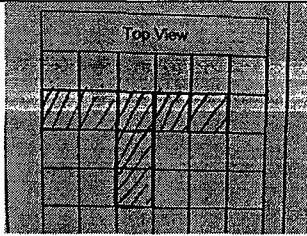
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	4	2	1	1	2	3	4	1	3

Q11	Q12	Q13	Q14	Q15
4	2	2	1	3

**PAPER 1 BOOKLET B**

Q16) 550012
Q17) $125 \text{ cm}^3$
Q18) 10 : 4 : 5
Q19) $7\,020 \text{ cm}^3$
Q20) $\frac{3}{4} \times \frac{2}{7} \text{ m} = \frac{3}{14} \text{ m}$
Q21) 50
Q22) $\frac{2}{5} \times \frac{1}{4} = \frac{1}{5}$ $1 - \frac{3}{5} = \frac{2}{5}$ $\frac{2}{5} \times \frac{1}{4} = \frac{1}{10}$
Q23) $18 \times 11 = 198$ $198 \div 9 = 22$
Q24) $\frac{1}{2} \times 6 \times 4 = 16 \text{ cm}^2$
Q25) 12
Q26) $65 \div 5 = 13 \text{ kg}$

Q27)



Q28)  $12 \times 2 = 24$

$4 \times 13 = 312$

Q29)  $40 \times 5 \times 30 = 6000$

$6000 \div 2 = 3000$

Q30) False

Not possible to tell

**PAPER 2**

Q1)  $4.5 \times 18 = \$81$

Q2)  $8 - 3 \frac{2}{5} = 4 \frac{3}{5}$

$4 \frac{3}{5} - 3 \frac{2}{5} = 1 \frac{1}{5}$

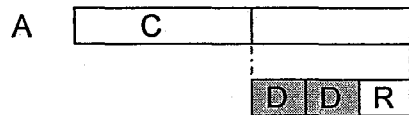
Q3)

S				120
R		900		

$900 - 120 = 780$

$780/2 = \$390$

Q4)



$54 \div 2 = 27$

$27 \div 3 = 9$

Q5)  $128 \div 4 = 32$

$\frac{1}{2} \times 32 \times 32 = 512 \text{ cm}^2$

Q6) S : M : T

8 : 5 : 2

$180 \div 15 = 12$

$12 \times 3 = 36$



<p>Q7) <math>1565 \text{ g} - 356 \text{ g} = 1209 \text{ g}</math>  <math>6 \times 108 \text{ g} = 648 \text{ g}</math>  <math>1209 \text{ g} - 648 \text{ g} = \mathbf{561 \text{ g}}</math></p>
<p>Q8) <math>118 + 76 = 194</math>  <math>194 - 42 = 152</math>  <math>152 \div 2 = \mathbf{76}</math></p>
<p>Q9) <math>200 + 300 = 500</math>  <math>20000 \div 500 = 40</math>  <math>40 \times 2 = \mathbf{80}</math>  <b>80 cups</b> of lemonade were sold</p>
<p>Q10) <math>13 + 5 = 18</math>  <math>18 \div 2 = 9</math>  There were <b>9 people</b> in the group.</p>
<p>Q11) a) <math>\frac{R}{2} : \frac{B}{5}</math>  <math>140 - 110 = 30</math>  <math>30 \div 2 = 15</math>  She took out <b>15 red beads</b>.</p> <p>b) <math>140 \div 7 = 20</math>  <math>20 \times 5 = 100</math>  There were <b>100 blue beads</b> at first.</p>
<p>Q12) <math>22 \div 11 = 2</math>  <math>2 \times 28 = 56</math>  She baked <b>56 pies</b> at first.</p>
<p>Q13) a) <math>77 \times 18 \times 60 = 83\,160</math>  <math>83\,160 \div 9 = 9\,240</math>  <math>9\,240 \times 4 = 36\,960</math>  The volume of water in the tank is <b>36 960ml</b>.</p> <p>b) <math>9\,240 \times 5 = 46\,200</math>  <math>46\,200 \text{ cm}^3 = 46\,200 \text{ ml}</math>  <math>46\,200 \div 550 = 84</math>  James used <b>84 cups</b> of water to fill the rest of the tank.</p>

Q14)  $\frac{1}{3} + \frac{2}{5} = \frac{11}{15}$

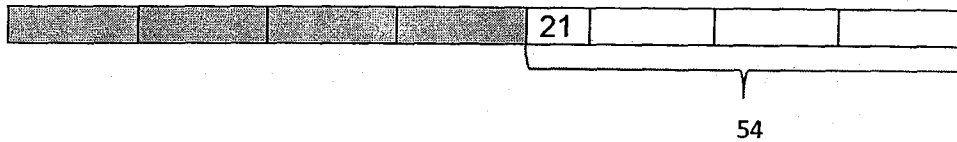
$270 \div 15 = 18$

$18 \times 4 = 72$

$72 \div 12 = 6$

Each friend received **6 stickers.**

Q15)



$3u \rightarrow 54 - 21 = 33$

$1u \rightarrow 33 \div 3 = 11$

$7u \rightarrow 11 \times 7 = 77$

She has **77 candies** at first.

Q16) a)  $3.20 \times 2 = 6.40$

$6.40 - 5.20 = 1.20$

$1.20 \div 2 = 0.60$

Each ruler cost **\$0.60**

b)  $5 \div 0.60 = 8 \text{ R } 2$

Hector can buy **8 rulers.**

Q17)



$1p \rightarrow 35 + 11 = 46$

Remainder (3p)  $\rightarrow 46 \times 3 = 138$

$5u \rightarrow 138 + 22 = 160$

$1u \rightarrow 160 \div 5 = 32$

Total  $\rightarrow 32 \times 6 = 192$

He had **\$192** at first.