



Maha Bodhi School
2018 Semestral Assessment 1
Primary 5
Mathematics
Paper 1
(Booklet A)

Name : _____ ()

Class : Primary 5 _____

Date : 4 May 2018

Total Duration for Booklets A and B: 1 hour

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. Shade your answers in the Optical Answer Sheet (OAS) provided.
5. The use of calculators is **NOT** allowed.

This booklet consists of 7 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). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)
All diagrams are not drawn to scale.

1. In 9 563 078, the digit 5 is in the _____ place.

- (1) millions
- (2) hundreds
- (3) ten thousands
- (4) hundred thousands

2. How many common factors do 8 and 12 have?

- (1) 24
- (2) 2
- (3) 3
- (4) 10

3. Arrange the following fractions from the greatest to the smallest.

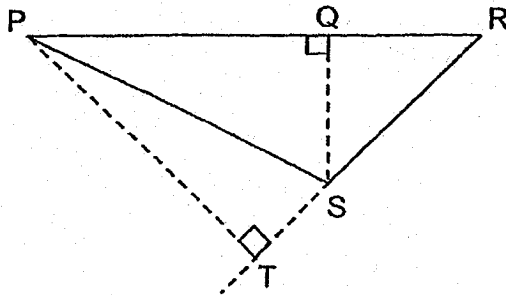
$$\frac{1}{2}, \frac{2}{3}, \frac{2}{7}$$

- (1) $\frac{2}{7}, \frac{1}{2}, \frac{2}{3}$
- (2) $\frac{2}{7}, \frac{2}{3}, \frac{1}{2}$
- (3) $\frac{2}{3}, \frac{1}{2}, \frac{2}{7}$
- (4) $\frac{2}{3}, \frac{2}{7}, \frac{1}{2}$

4. Which of the following will give 30.0 when rounded to 1 decimal place?

- (1) 29.94
- (2) 29.95
- (3) 30.94
- (4) 30.95

5. Which of the following pair shows the correct base and its corresponding height for finding the area of Triangle PRS?



	Base	Height
(1)	TR	PT
(2)	SR	PS
(3)	PQ	SQ
(4)	PR	QS

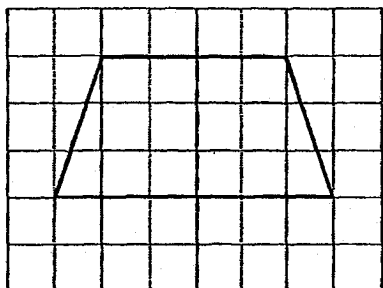
6. There are red and green apples in a box. $\frac{2}{5}$ of the apples are red.

What is the ratio of the number of green apples to the number of red apples?

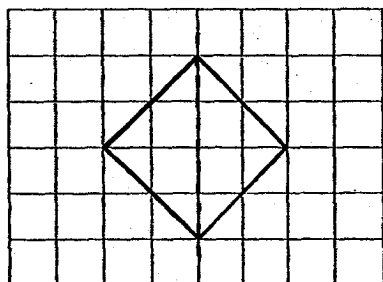
- (1) 2 : 3
- (2) 2 : 5
- (3) 3 : 2
- (4) 3 : 5

7. Which of the following is not a symmetric figure?

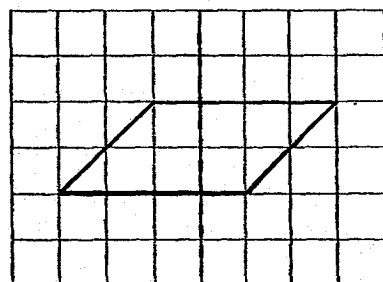
(1)



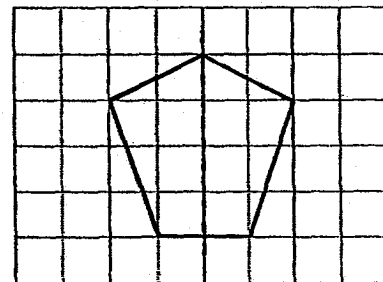
(2)



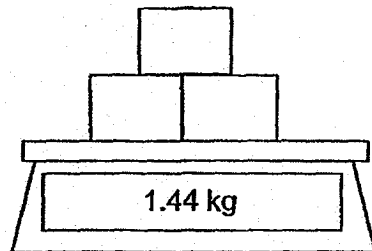
(3)



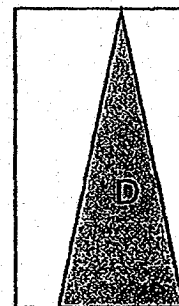
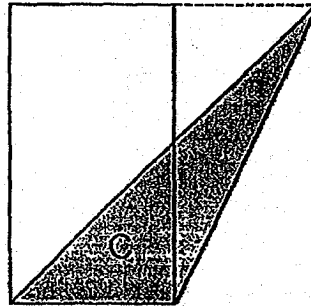
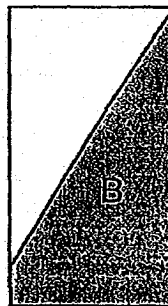
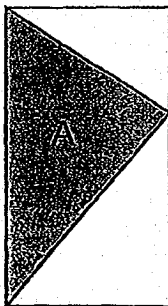
(4)



8. The digital scale below shows the mass of 3 identical boxes.
What is the mass of 2 such boxes?

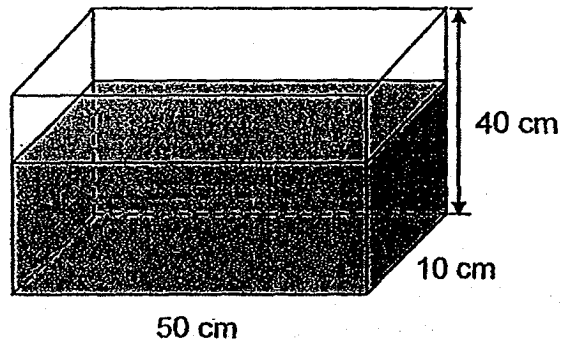


- (1) 48 g
(2) 96 g
(3) 480 g
(4) 960 g
9. The figures below show 4 identical rectangles.
Which two of the shaded figures have the same area?



- (1) A and B
(2) A and C
(3) B and D
(4) C and D

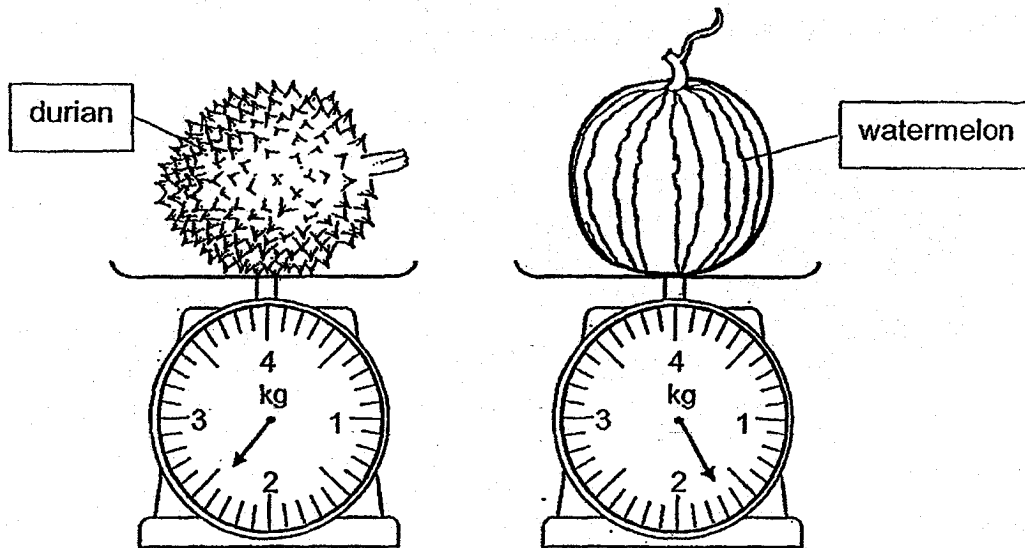
10. The figure below shows a rectangular tank which is $\frac{3}{4}$ filled with water.
How much more water is needed to fill the tank completely?



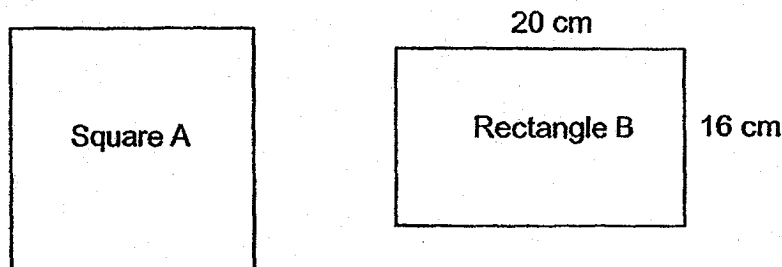
- (1) 5000 cm³
 - (2) 10 000 cm³
 - (3) 15 000 cm³
 - (4) 20 000 cm³
11. John's age is a multiple of 7 this year. In 3 years' time, his age will be a multiple of 5.
His age is between 20 and 60. How old is John this year?

- (1) 32
- (2) 35
- (3) 42
- (4) 45

12. How much heavier is the durian than the watermelon?



- (1) 0.7 kg
 - (2) 1.7 kg
 - (3) 2.4 kg
 - (4) 4.1 kg
13. Square A has the same perimeter as Rectangle B.
Find the area of Square A.

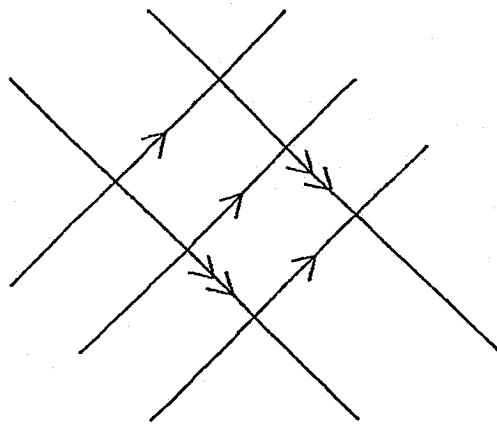


- (1) 18 cm²
- (2) 72 cm²
- (3) 320 cm²
- (4) 324 cm²

14. Tom spent $\frac{1}{4}$ of his money at recess. He spent $\frac{1}{6}$ of his remaining money on lunch. What fraction of his money was left in the end?

- (1) $\frac{1}{8}$
- (2) $\frac{5}{8}$
- (3) $\frac{5}{12}$
- (4) $\frac{7}{12}$

15. How many pairs of parallel lines are there in the diagram?



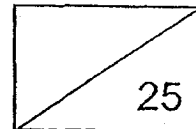
- (1) 5
- (2) 2
- (3) 3
- (4) 4



Maha Bodhi School
2018 Semestral Assessment 1
Primary 5
Mathematics
Paper 1
(Booklet B)

Name : _____ ()

Marks:



Class : Primary 5 _____

Date : 4 May 2018

Total Duration for Booklets A and B: 1 hour

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. Write all your answers in this booklet.
5. The use of calculators is **NOT** allowed.

This booklet consists of 6 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. (5 marks)
All diagrams are not drawn to scale.

16. Express $\frac{7}{8}$ as a decimal.

Ans: _____

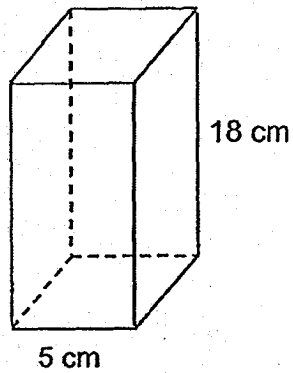
17. String A is 5.36 m long. It is 0.42 m longer than String B.
How long is String B?

Ans: _____ m

18. After revising his work for 45 minutes, Anu took a break at 12.20 p.m.
What time did he start revising his work?

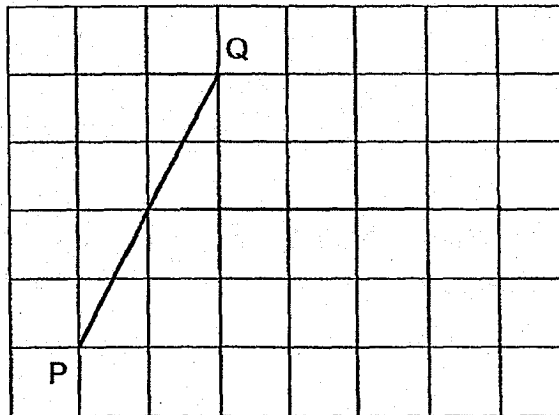
Ans: _____

19. A solid cuboid of height 18 cm has a square base of side 5 cm. What is its volume?



Ans: _____ cm^3

20. In the square grid below, draw a line QR such that QR is perpendicular to PQ. Label QR clearly.



Questions 21 to 30 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. (20 marks)

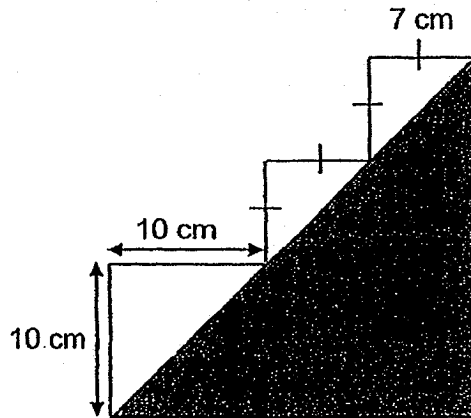
All diagrams are not drawn to scale.

21. Find the missing number in the pattern shown below.

5, 5, 6, 8, 11, 15, _____

Ans: _____

22. Find the area of the shaded triangle.



Ans: _____ cm²

23. The ratio of the number of pencils Linda has to the number of pencils Ken has is 3 : 2. Linda has 324 pencils. How many pencils does Ken have?

Ans: _____ pencils

24. The table below shows the number of families with pets.

Number of pets	Number of families
0	18
1	25
2	12
3	9

How many families have at least 1 pet?

Ans: _____ families

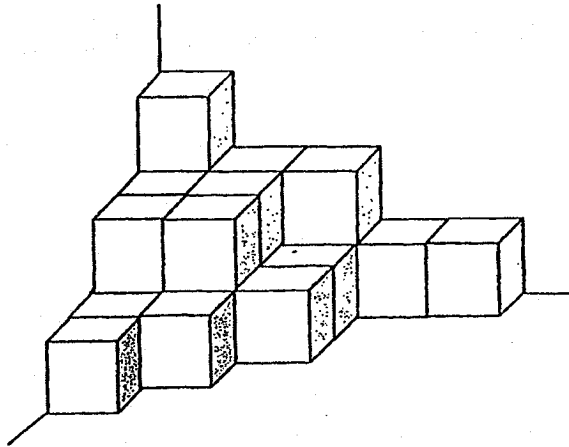
25. For every 3 prawn dumplings, Mother made 4 chicken dumplings.
She made a total of 252 dumplings. How many prawn dumplings did she make?

Ans: _____ prawn dumplings

26. Pole A is 306 cm long. Pole B is thrice as long as Pole A.
What is the total length of the two poles in metres?

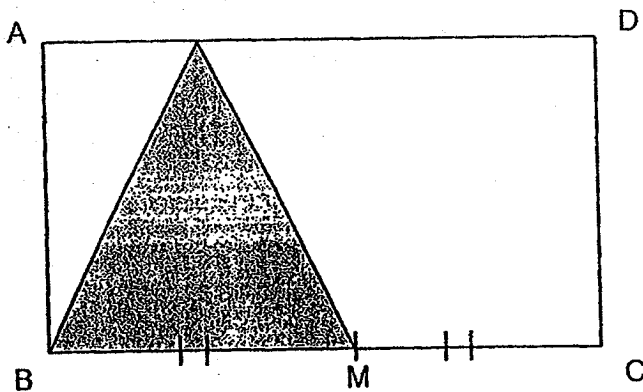
Ans: _____ m

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



Ans: _____ cm^3

28. In the diagram below, ABCD is a rectangle and $BM = MC$. Express the area of the shaded part to the area of the unshaded part as a ratio in the simplest form.

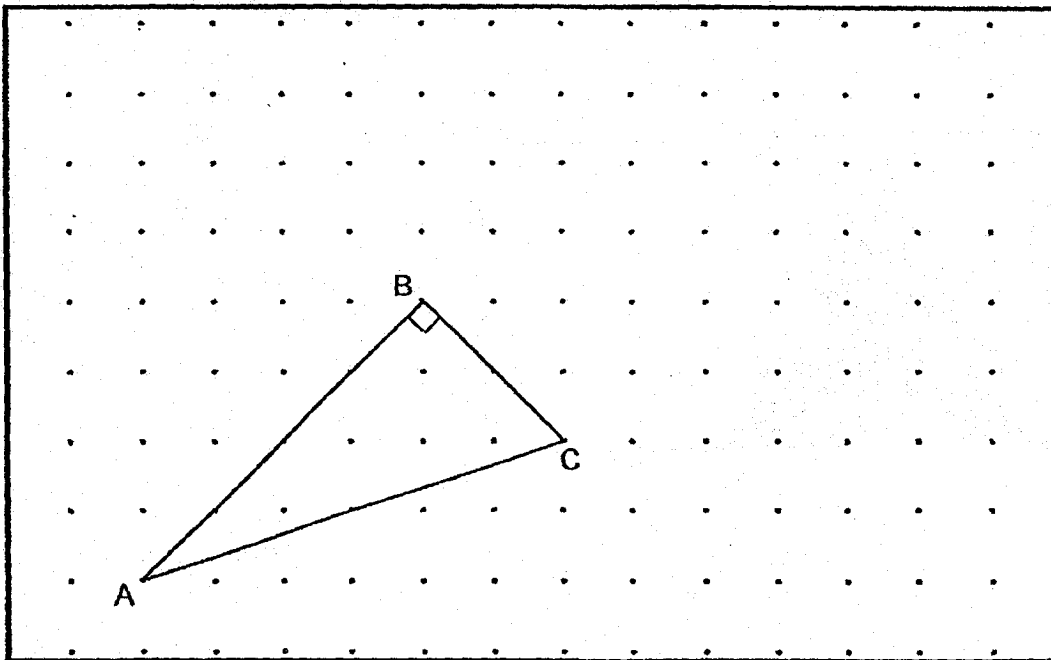


Ans: _____

29. There are 68 children and adults at a camp. $\frac{3}{5}$ of the number of children is equal to $\frac{1}{4}$ of the number of adults. How many more adults than children are there?

Ans: _____ more adults

30. In the figure below, Triangle ABC is a right-angled triangle. Triangle BCX is a right-angled triangle with the same area as Triangle ABC. Draw Triangle BCX and label the point X.





Maha Bodhi School
2018 Semestral Assessment 1
Primary 5
Mathematics
Paper 2

Name : _____ ()

Class : Primary 5 _____

Date : 4 May 2018

Duration: 1 h 30 min

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. Write your answers in this booklet.
5. The use of an approved calculator is expected, where appropriate.

Paper	Booklet	Marks Obtained	Max Marks
1	A		20
	B		25
2	-		55
Total			100

Parent's signature: _____

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)
All diagrams are not drawn to scale.

1. Henry cut an 8 m ribbon into 5 equal pieces. How long was each piece of ribbon?
Give your answer as a mixed number in its simplest form.

Ans: _____ m

2. In the market, fish balls are sold at \$2.35 per 100 g.
What is the amount of money Mother needs to pay if she wants to buy 600 g of fish balls?

Ans: \$ _____

3. A fence is 6.3 m long. 90 cm of the fence is painted blue and the remainder is painted red. What is the ratio of the length of the fence painted red to the length of the fence painted blue?

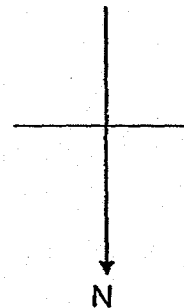
Ans: _____

4. Caleb has 3 times as many erasers as Jim. After Caleb gave 6 erasers away and Jim bought 4 more erasers, they both had the same number of erasers.
How many erasers did Caleb have at first?

Ans: _____ erasers

5. Xavier is standing in one of the square grids below. To his south-west is the school and to his south is the food centre. Mark an "X" in the square grid where Xavier is standing.

Police Station	Food Centre	School	
			Community Centre



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)
All diagrams are not drawn to scale.

6. During a warehouse sale, all dresses were sold at a fixed price and all skirts were sold at another fixed price. Kelly bought 6 dresses and Molly bought 6 skirts. Molly paid \$59.70 more than Kelly. They paid \$377.70 altogether. How much did each dress cost?

Ans: _____ [3]

7. Ben and Jerry had 394 stickers. After Ben received 190 stickers from his mother, the ratio of the number of stickers Ben had to the number of stickers Jerry had became 3 : 1. How many stickers did Jerry have?

Ans: _____ [3]

8. Joan had some 20¢ coins and 50¢ coins. The ratio of the number of 20¢ coins to the number of 50¢ coins is 7 : 2. The value of the 20¢ coins she had was \$480.20 .
How many 50¢ coins did she have?

Ans: _____ [3]

9. Mrs Tan prepared some nuggets for the children who attended her child's birthday party. If she gives each child 4 nuggets, she will have 35 nuggets left over. If she gives each child 6 nuggets, she will have 11 nuggets left over. How many nuggets did Mrs Tan prepare?

10. There are 4 strips of Milo in a carton. Each strip contains 6 packets of Milo.

There are 200 residents in an elderly home.

Mother wants to give each of the residents one packet of Milo.

(a) What is the least number of such cartons Mother needs to buy?

(b) How many packets of Milo would she have left?

Ans: (a) _____ [2]

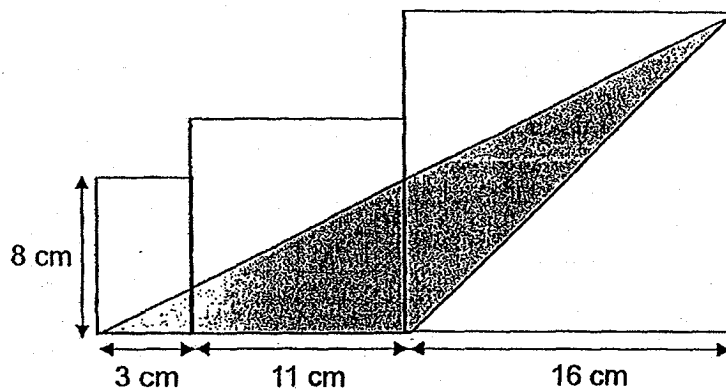
(b) _____ [2]

11. Martha withdrew $\frac{1}{5}$ of her savings from her bank in July. She spent \$920 of it and had \$400 left. In August, she deposited $\frac{1}{2}$ of her monthly salary in the bank and her savings increased to \$6720. What was Martha's monthly salary?

Ans: _____ [4]

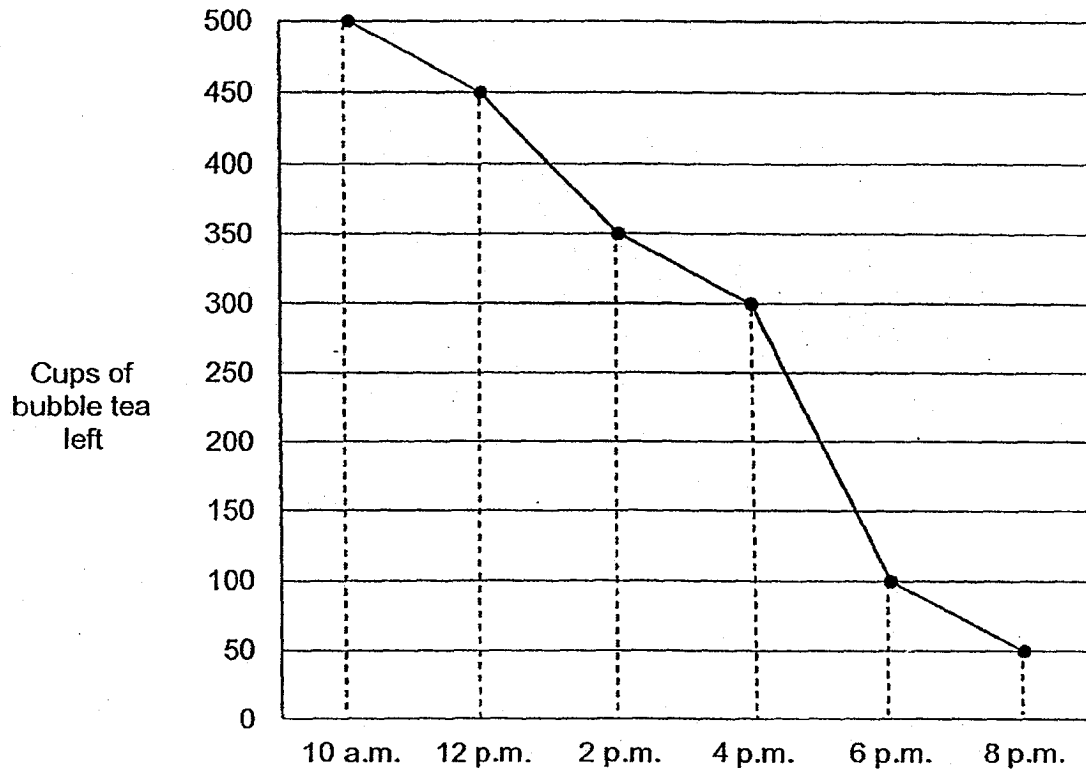
12. The figure below is made up of a rectangle and 2 different squares of sides 11 cm and 16 cm respectively.

Find the total area of the unshaded parts in the figure.



Ans: _____ [4]

13. The line graph below shows the number of cups of bubble tea left in the bubble tea shop on Wednesday from 10 a.m. to 8 p.m. Each cup of bubble tea cost \$2.



- (a) How many cups of bubble tea were sold by 4 p.m.?
 (b) How much money did the shop collect from selling cups of bubble tea from 4 p.m. to 8 p.m.?

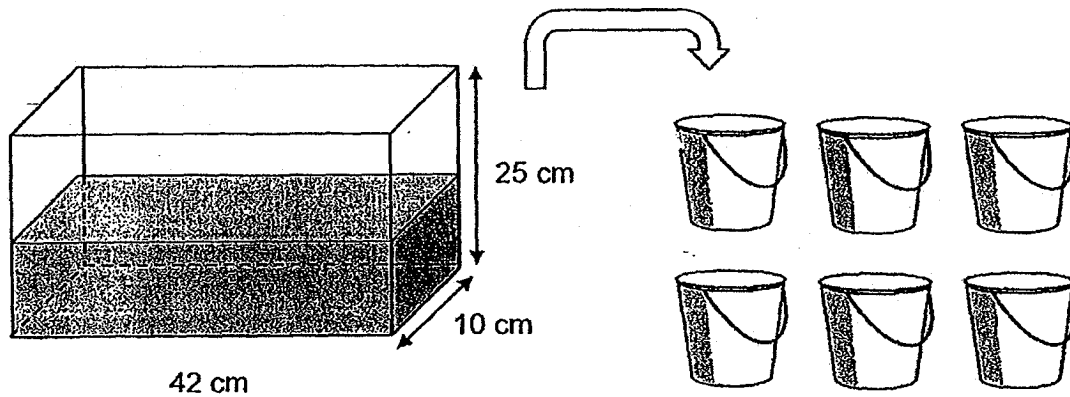
Ans: (a) _____ [2]

(b) _____ [2]

14. 10 men can build 2 boats in 4 days. Working at the same rate, how many men are needed to build 5 boats in 1 day?

Ans: _____ [3]

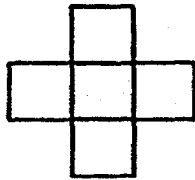
15. A rectangular tank measuring 42 cm by 10 cm by 25 cm was filled with water to a depth of 18 cm. Some water in the rectangular tank was then poured into 6 similar bucket. Each bucket has a capacity of 450 ml. How much water was left in the rectangular tank? Give your answer in litres and millilitres.



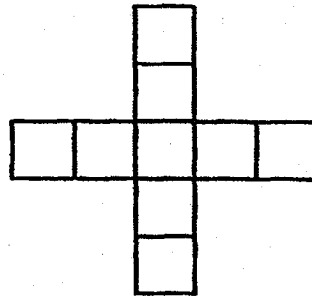
16. The figures below are made up of squares of side 1cm.



Pattern 1



Pattern 2



Pattern 3

Pattern	Number of squares	Perimeter (cm)
1	1	4
2	5	12
3	9	20
4	13	28
5	(a)	...
...	...	...
10	...	(c)
...	...	...
(b)	181	...

- (a) Find the number of squares in Pattern 5.
- (b) In which Pattern will there be 181 squares?
- (c) What is the perimeter of Pattern 10?

Ans: (a) _____ [1]

(b) Pattern _____ [2]

(c) _____ [2]

17. There are 567 students in the hall.
 $\frac{2}{5}$ of the girls and $\frac{1}{2}$ of the boys wear glasses.
A total of 249 students in the hall wear glasses.

- (a) What fraction of the students in the hall are boys? Express your answer in the simplest form.
- (b) When 5 of the girls who wear glasses left the hall, what fraction of the remaining girls in the hall wear glasses?

Ans: (a) _____ [2]

(b) _____ [3]

SCHOOL : MAHA BODHI PRIMARY SCHOOL
 LEVEL : PRIMARY 5
 SUBJECT : MATH
 TERM : 2018 SA1

PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
3	1	4	2	4

PAPER 1 BOOKLET B

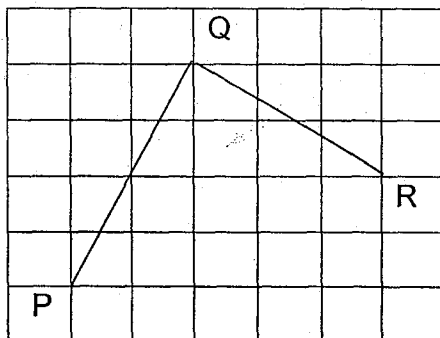
Q16) 0.875

Q17) $5.36 - 0.42 = 4.94$ m

Q18) 11.35 a.m.

Q19) $5 \times 5 \times 18 = 450\text{cm}^3$

Q20)



Q21) 20

Q22) $10 + 7 + 7 = 24$

$$\frac{1}{2} \times 24 \times 24 = 288 \text{ cm}^2$$

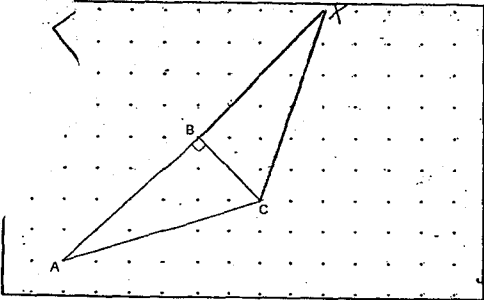
Q23) $324 \div 3 = 108$

$$108 \times 2 = 216$$

Q24) $25 + 12 + 9 = 46$

Q25) $4 + 3 = 7$

$$252 \div 7 = 36$$

	$36 \times 3 = 108$
Q26)	$306 \times 3 = 918$ $918 + 306 = 1224$ $= 12.24 \text{ m}$
Q27)	$14 + 7 + 1 = 22 \text{ cm}^3$
Q28)	$1 : 3$
Q29)	$17 \text{ units} = 68$ $1 \text{ unit} = 68 \div 17 = 4$ $7 \text{ units} = 4 \times 7 = 28$
Q30)	

PAPER 2

Q1)	$8 \div 5 = 8/5 = 1\frac{3}{5} \text{ m}$												
Q2)	$600 \div 100 = 6$ $2.35 \times 6 = \$14.10$												
Q3)	$630 - 90 = 540$ Red : Blue $540 : 90$ $6 : 1$												
Q4)	$6 + 4 = 10$ 2 units = 10 $3 \text{ units} = 10/2 \times 3 = 15$												
Q5)	<table border="1"><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td>X</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>						X						
	X												
Q6)	$377.70 - 59.70 = 318$ $318 \div 2 = 159$ $159 \div 6 = \$26.50$												
Q7)	$394 + 190 = 584$ 4 units = 584 $1 \text{ unit} = 584 \div 4 = 146$												

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Q8)	$480.20 \div 0.20 = 2401$ $7 \text{ units} = 2401$ $1 \text{ unit} = 2401 \div 7 = 343$ $2 \text{ units} = 686$
Q9)	83
Q10)	$a) 6 \times 4 = 24$ $200 \div 24 = 8.333$ $8 + 1 = 9$ $b) 9 \times 24 = 216$ $216 - 200 = 16$
Q11)	$1/5 \text{ of savings} \rightarrow \$920 + \$400 = \1320 $4/5 \text{ of savings} \rightarrow \$1320 \times 4 = \$5280$ $1/2 \text{ of savings} \rightarrow \$6720 - \$5280 = \1440 $\$1440 \times 2 = \2880
Q12)	$11 + 3 = 14$ $1/2 \times 14 \times 16 = 112$ $16 \times 16 = 256$ $11 \times 11 = 121$ $8 \times 3 = 24$ $256 + 121 + 24 = 401$ $401 - 112 = 289 \text{ cm}^2$
Q13)	$a) 500 - 300 = 200$ $b) 500 - 50 = 450$ $450 - 200 = 250$ $250 \times 2 = \$500$
Q14)	4days $2 \text{ boats} \rightarrow 10 \text{ men}$ $1 \text{ boat} \rightarrow 5 \text{ men}$ 1day $1 \text{ boat} \rightarrow 20 \text{ men}$ $5 \text{ boats} \rightarrow 100 \text{ men}$
Q15)	$42 \times 10 \times 18 = 7560$ $450 \times 6 = 2700$ $7560 - 2700 = 4 \text{ L } 860 \text{ ml}$
Q16)	$a) 13 + 4 = 17$ $b) 181 - 1 = 180$ $180 \div 4 = 45$ $45 + 1 = 46$ $c) 10 - 4 = 6$ $28 + 6 \times 8 = 76$
Q17)	Let G represent the girls. Let B represent the boys

$$\begin{array}{l} \text{a) } 5G + 2B = 567 \\ 2G + 1B = 249 \end{array} \quad \begin{array}{l} \times 5 \\ \times 2 \end{array}$$

$$\begin{array}{l} 10G + 5B = 1245 \\ 10G + 4B = 1134 \\ 1B = 1245 - 1134 = 111 \\ 2B = 111 \times 2 = 222 \\ 222/567 = 74/189 \end{array}$$

$$\begin{array}{l} \text{b) } 2G = 249 - 111 = 138 \\ 5G = 138 / \times 5 = 345 \end{array}$$

$$\begin{array}{r} 138 - 5 = 133 \\ 345 - 5 = 340 \end{array}$$