RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 1)
PRIMARY 5

Name: _____ (   )

Form Class: P5_____   Banded Math Class: P5 _____

Date: 11 May 2010   Duration: 50 min

Your Score (Out of 100 marks)			
Your Score (Out of 40 marks)			
		Banded Math Class	**Level**
PAPER 1 (40%)	Highest Score		
	Average Score		
TOTAL (100%)	Highest		
	Average Score		
Parent's Signature			

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 and show all working clearly.

4. **NO** calculator is allowed for this paper.

SECTION A (20 marks)

Questions **1** to **10** carry 1 mark each. Question **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 your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

1. There are _____ hundreds in 470 000.

    (1) 47

    (2) 470

    (3) 4 700

    (4) 47 000   (   )
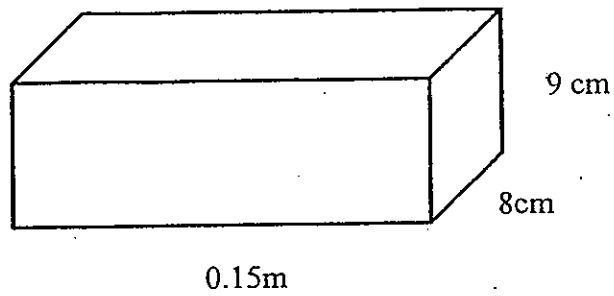
2. What is the product of 76 X 8000?

    (1) 608

    (2) 6 080

    (3) 60 800

    (4) 608 000   (   )

3. Find the volume of the cuboid shown below.

9 cm

8cm

0.15m

(1) 1.08 cm^3

(2) 10.8 cm^3

(3) 108 cm^3

(4) 1080 cm^3

( )

4. What is the missing number in the box?

$$3\frac{3}{4} = 2\frac{\square}{8}$$
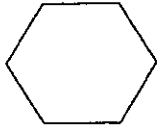
(1) 6

(2) 7

(3) 14

(4) 16

( )

5. Express $5\frac{3}{8}$ as an improper fraction.

(1) $\frac{16}{8}$

(2) $\frac{29}{8}$

(3) $\frac{43}{8}$

(4) $\frac{53}{8}$

( )

6. Which of the following figures **cannot** be tessellated?

    (1)

    (2)

    (3)
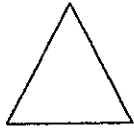
    (4)

    (   )

7. In 213.859, the digit in the hundredths place is _____.

    (1)   5

    (2)   2

    (3)   8

    (4)   9

    (   )

8. Express 0.025 as a fraction in its simplest form.

    (1) $\dfrac{1}{4}$

    (2) $\dfrac{1}{5}$

    (3) $\dfrac{1}{40}$

    (4) $\dfrac{1}{50}$ (   )

9. Which of the following ratio is equivalent to 12 : 9?

    (1) 2 : 3

    (2) 15 : 12

    (3) 24 : 21

    (4) 28 : 21   (   )

10. Find the value of 36 012 + 847 401.

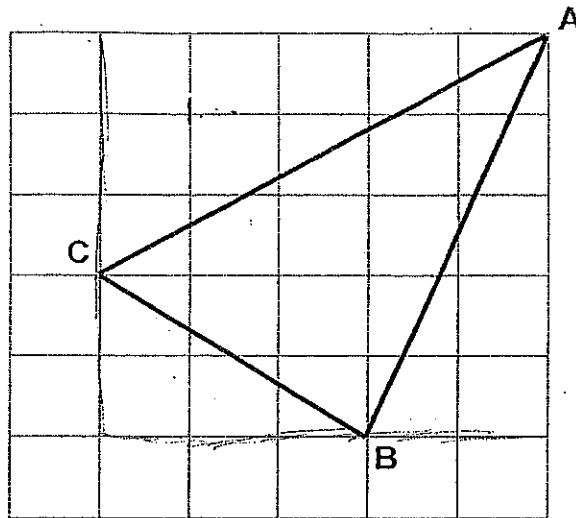   Round off your answer to the nearest hundreds.

    (1) 883 000

    (2) 883 300

    (3) 883 400
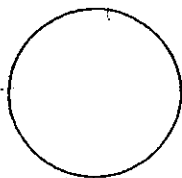
    (4) 883 500   (   )

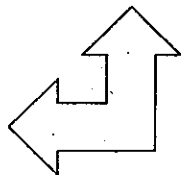11. The triangle ABC is drawn on a 1-cm grid. Find the area of the triangle.

(1) 8 cm^2

(2) 9.5 cm^2

(3) 12 cm^2

(4) 15.5 cm^2 (   )

12. Which of the following figure(s) has/have no line of symmetry?
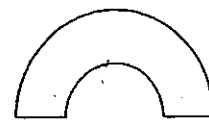

| A | B | C | D |

(1) B only

(2) C only

(3) A and D

(4) All of the above   (   )
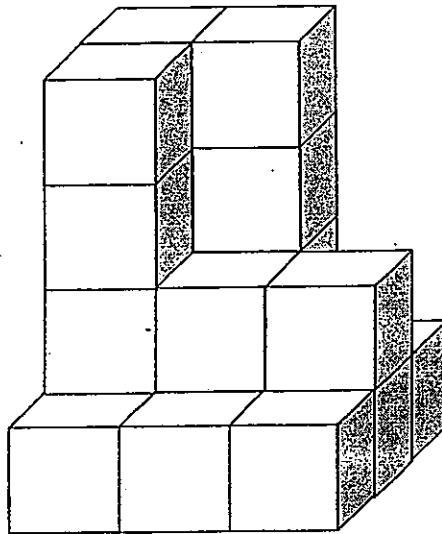
13. Divide 24 by the sum of the first two common multiples of 2 and 4.

   (1)   1

   (2)   2

   (3)   3

   (4)   4   (   )

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

   (1)   13 cm³

   (2)   15 cm³

   (3)   18 cm³

   (4)   20 cm³   (   )

15. Devi and Ella had 85 bookmarks together.

$\frac{3}{4}$ of Devi's bookmarks was equal to $\frac{2}{3}$ of Ella's bookmarks.

How many bookmarks did Devi have?

(1)   17

(2)   40

(3)   45

(4)   51

(   )

Questions **16** to **25** 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. Answers in fractions or ratio must be expressed in the simplest form.

16. Arrange the numbers in ascending order.

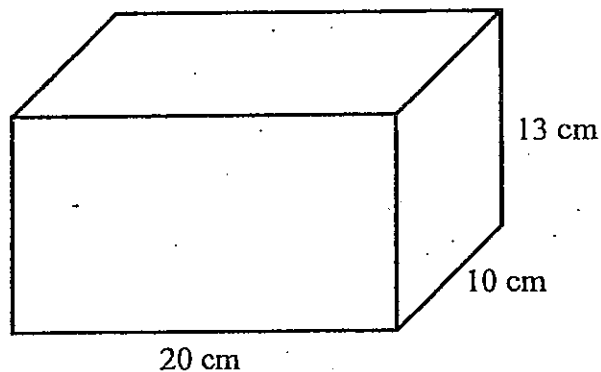   626 012,   616 012,   626 120,   615 012

    Ans: _____ , _____ , _____ , _____

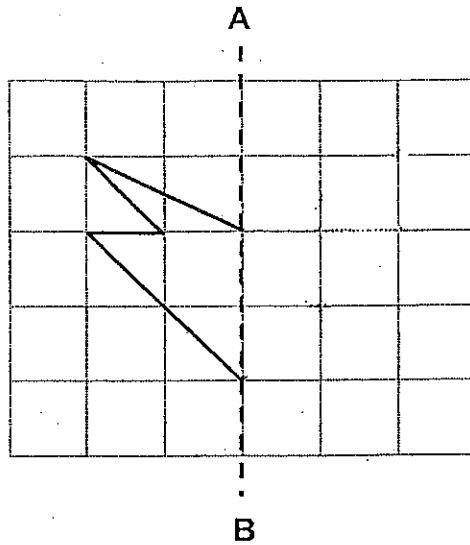17. Complete the number pattern below:

    8.45 ,   8.2 ,   _____ ,   7.7 ,   7.45

    Ans:_____

18. How many 2-cm cubes can fit in the rectangular tank measuring 20 cm by 10 cm by 13 cm?
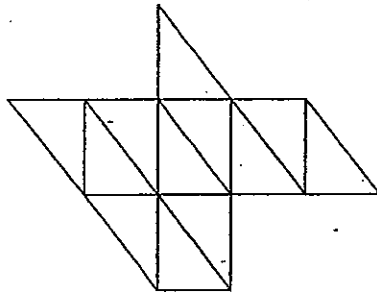

    13 cm

    10 cm

    20 cm

    Ans: _____

19. Given that AB is a line of symmetry, complete the figure below.

20. The figure below is made up of several copies of a particular unit shape. How many unit shapes are used in the tessellation below?

Ans:_____

21. Mary baked a 2kg cake. She ate $\frac{1}{4}$ kg. How much of the cake was left?

Ans:_____ kg

22. Express 3 tens $\overset{30}{}$ and 250 thousandths as a fraction in its simplest form.

Ans: _____

23. Find the value of 36.7 ÷ 5.

Ans: _____

24. Round off 59.465 to the nearest whole number.

Ans: _____

25. Jack and Sally weigh a total of 64 kg.
If Sally's weight is 24 kg, what is the ratio of Sally's weight to Jack's weight?
Express your answer in its simplest form.

Ans: _____

Questions **26** to **30** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

26. Celina earned $50 for every packet of dolls sold.
    Each packet contained 10 dolls.
    If Celina earned a total of $4250 at the end of the month,
   how many dolls did she sell?

    Ans: _____

27. Solve the following.

    $64 \times (3 + 5) \div 2 - 71$

    Ans: _____

28. 4 cups filled an empty pot with 292cm^3 of water.
    Another 4 cups and 7 beakers of water are needed to fill up the pot completely.
    If the capacity of the pot is 654 cm^3, what is the volume of water that each beaker can hold?
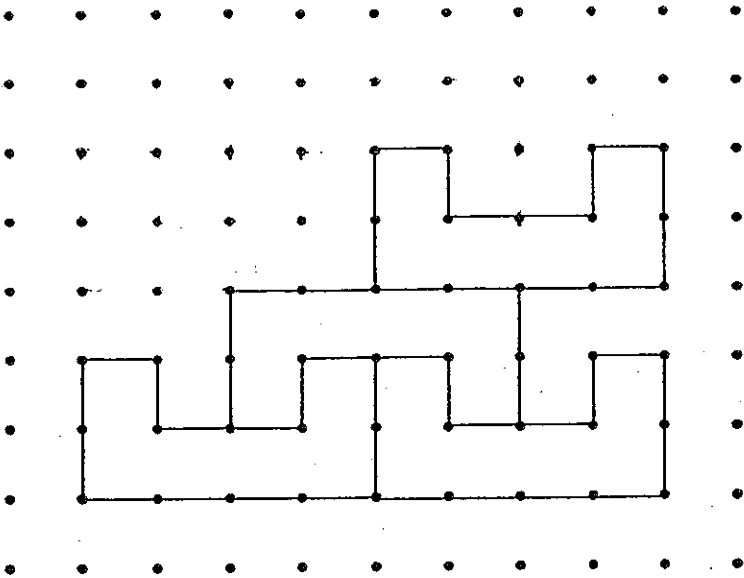
    Ans: _____ cm^3

29. The volume of water in the rectangular tank is 168 cm³.
How much **more** water is needed to fill up the rectangular tank completely?

9 cm

3 cm

7 cm

water
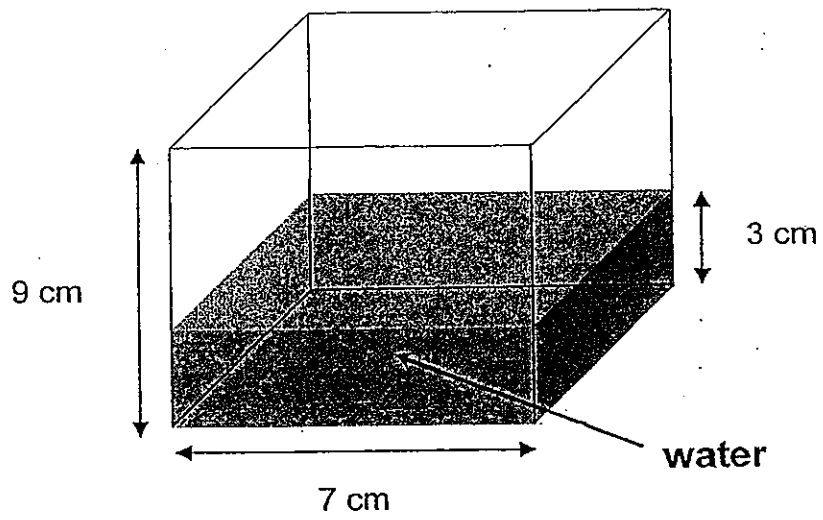
Ans: _____ cm³

30. Extend the tessellation by drawing 2 more unit shapes.

End of Paper-
☺ **Please check your work carefully** ☺

Setters: Mr Desmond Lee
Mrs Jenine Soh
Miss Wai Sook Har

RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 2)
PRIMARY 5

Name: _____ ( )

Form class: P5 _____   Banded Math Class: P5 _____

Date: 11 May 2010   Duration: 1 h 40 min

| Your Score (Out of 60 marks)		
	Banded Math Class	**Level**
Highest Score		
Average Score		

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 and show all working clearly.

4. The use of calculator is allowed for this paper.

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.
Figures are not drawn to scale.
For questions which require units, give your answers in the units stated.　(10 marks)

1.　Given the model below, find the ratio of A to B.
　　Express your ratio in its simplest form.
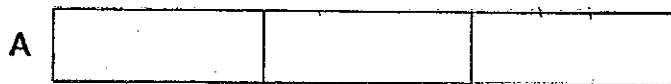
Ans: _____ [2]

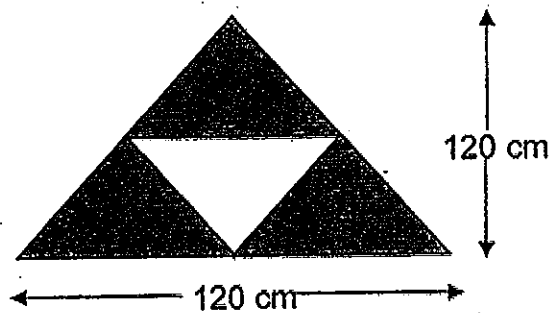2.　Find the product of **all** the common factors of 8 and 16.

Ans: _____ [2]

3.　$\frac{2}{3}$ of Mr Tan's salary is $3360.
　　How much is Mr Tan's salary?

Ans\ $ _____ [2]

4. Shanna had 2750 marbles. She gave $\frac{2}{5}$ of her marbles to Tommy.

She then gave $\frac{1}{5}$ of the remainder to Umi.

How many marbles did Umi receive from Shanna?

Ans:_____ [2]

5. The figure is made up of 4 identical triangles. Find the total shaded area.

120 cm

120 cm

Ans: _____ cm² [2]

For questions **6** to **18**, show your working clearly in the space provided for each question and write your answers in the spaces provided. Figures are not drawn to scale. The number of marks available is shown in the brackets [ ] at the end of each question or part-question. (50 marks)

6. A rectangular container has a base area of 143 cm^2.
   It is filled with water to a depth of 5 cm.
   Another 858 cm^3 of water is added to the container to fill it up completely.
   What is the height of the container?

   Ans: _____ [3]

7. The ratio of the mass of chicken to the mass of fish was 3 : 5.
   16 kg of fish was sold to customers.
   After that, the ratio of the mass of chicken to the mass of the fish was 7 : 9.
   Find the mass of the fish at first.

   Ans: _____ [3]

8. ABCD is a trapezium which is made up of a triangle, a rectangle and a trapezium, X, Y and Z respectively. Find the area of ABCD.
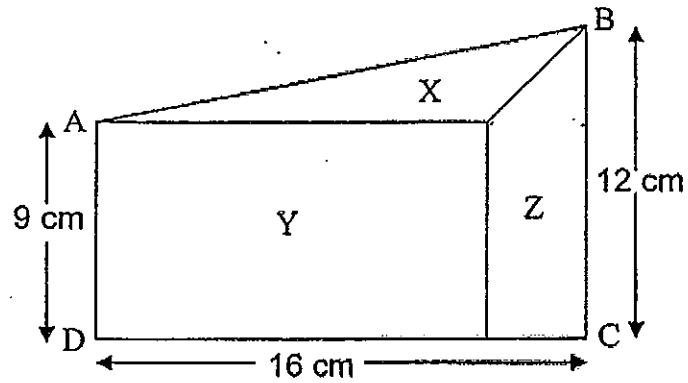
Ans:_____ [3]

9. Three different coloured sweets were given out at a party.
The number of red sweets was thrice the number of yellow sweets.
The number of blue sweets was 39 more than half the number of yellow sweets.
If there were 118 more yellow sweets than blue sweets, how many sweets were given out altogether?

Ans: _____ [4]

10. Beaker A and Beaker B contained 9ℓ of water altogether at first.

Jamie poured $\dfrac{1}{3}$ of the water from Beaker A to Beaker B.

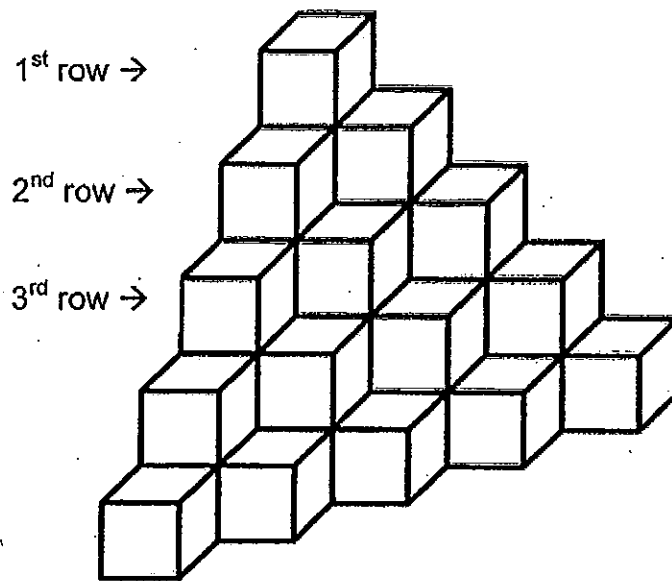Next, she poured $\dfrac{3}{8}$ of the water from Beaker B to Beaker A.

She then had the same volume of water in the 2 beakers.
How much water was there in each beaker at first?

Express your answers in $m\ell$.

Ans: Beaker A _____[2]

Beaker B _____[2]

11. The figure shown below is made up of 2-cm cubes.
What is the volume of the total number of cubes in the 17th row?


1st row →

2nd row →

3rd row →

Ans: _____[3]

12. Mr Soh travelled $\frac{1}{6}$ of a journey by MRT and $\frac{1}{2}$ of the remaining journey by bus. He was then 750 m away from his destination.
What was the distance of the whole journey?

Ans:_____[3]

13. During the Art and Craft lesson, Judy folds two corners of a piece of square paper as shown below before shading the paper. Triangle A and Triangle B are identical. Find the total area of the shaded part.
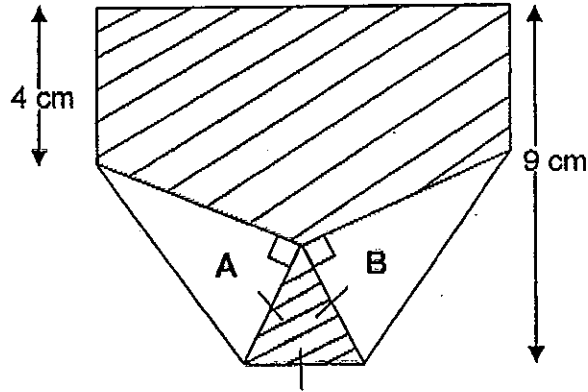
Ans:_____[4]

14. Miss Lim bought beads just enough to distribute to the members of the Art Club. Each member would receive 10 beads.
However, when 15 more members joined the club, each member could only receive 7 beads, with 60 beads remaining.
How many members were there in the Art Club at first?

Ans:_____ [4]

15. A container of red dye weighs 2.27 kg when it is $\frac{1}{3}$ full. Another identical container of red dye weighs 4.8 kg when it is $\frac{6}{7}$ full. What is the weight of the empty container?

Ans:_____4]

16. Becca received some money for her birthday and decided to go shopping.
If she bought 6 pairs of shoes, she would be short of $9.
If she used the same amount of money to buy 3 similar pairs of shoes and 2 similar bags, she would be left with $16.
Each bag cost $76. How much money did Becca receive for her birthday?

Ans:_____[5]

17. John had 993 tables and chairs at first.

After he sold $\frac{2}{5}$ of the tables and $\frac{5}{8}$ of the chairs, he had 459 tables and chairs left. How many tables did he sell?

Ans: _____ [5]

18. Catherine, Mindy and Shawn shared some beads in the ratio of 3 : 4 : 5 respectively.

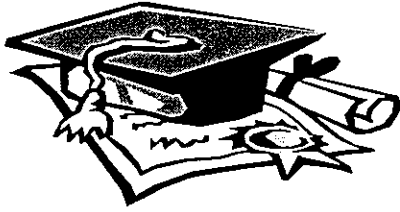   During a game, Mindy lost $\frac{1}{3}$ of her beads to Catherine and won $\frac{2}{5}$ of Shawn's.

   (a) What is the ratio of Mindy's beads to Shawn's beads now?
   (b) How many beads does Catherine have now if they have a total of 252 beads?

   Ans: (a) _____ [3]

   (b)_____ [2]

   -End of Paper-
   Please check your work carefully

ANSWER SHEET

EXAM PAPER 2010

SCHOOL : RAFFLES GIRLS' PRIMARY
SUBJECT : PRIMARY 5 MATHEMATICS

TERM   :   SA1
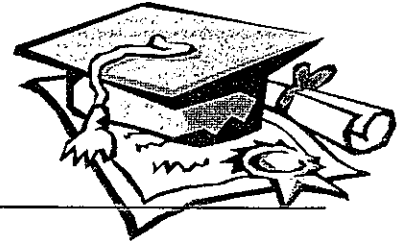
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
3	4	2	3	3	2	1	3	4	3	2	2	2	4	2

16) 615012, 616012, 626012, 626120   17) 7.95   18) 300
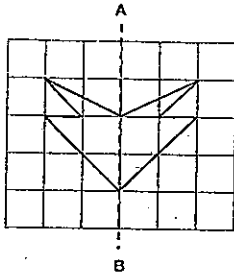
19)   20) 12   21) 1¾   22) 30¼   23) 7.34

24) 59   25) 3:5   26) 850   27) 185   28) 10cm₃

29) 336cm₃   30)

Paper 2

1)3:2	2)64
3)$5040	4)2750 ÷ 5 = 550 550 x 3 = 1650 1650 ÷ 5 = 330
5) ½ x b x h = ½ x 120 x120 = ½ x 14400 =7200 7200 ÷ 4 = 1800 1800 x 3 = 5400cm2	6)143 x 5 = 715 715 + 858 = 1573 1573 ÷ 143 = 11 The height is 11cm
7)5u = ? 35 − 27 = 8 8u→112 1u→112 ÷ 8 = 14 14 x 5 = 70 The mass of the fish was 70kg at first.	8)16 x 9 =144 12 − 9 =3 ½ x b x h = ½ x 3 x 16 = 24 24 + 144 = 168 The area is 168cm2
9)118 + 39 = 157 157 x 9 = 1413 1413 + 39 = 1452 1452 sweets were given out altogether.	10)a)2700ml b)7200ml
11)The volume is 1224cm3	12)750÷5= 150 150 x 12 = 1800 The distance is 1800m
13)9÷3 =3 9 − 4 =5 ½ x b x h = ½ x 3 x 5 = ½ x 15 =7.5 7.5 x 4 =30 9 x 9 = 81 81 − 30 = 51 The area of the shaded part is 51cm2	14)15 x 7= 105 105 + 60 = 165 10 − 7 =3 165÷3= 55
15) 0.66kg	16)$345
17)231	18)a)14:9 b)91