



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS
PRIMARY 4**

Name: _____ ()

Math Teacher: _____

Form Class: P4 _____

Date: 7 May 2018

Duration: 1 h 45 min

Your Score	
Section A (Out of 25 marks)	
Section B (Out of 40 marks)	
Section C (Out of 35 marks)	
Overall (Out of 100 marks)	

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.

SECTION A (25 marks)

Questions 1 to 5 carry 1 mark each. Questions 6 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.

1. The digit 7 in 21 745 stands for _____.
 - (1) 7
 - (2) 70
 - (3) 700
 - (4) 7000

2. What is 48 552 rounded to nearest thousand?
 - (1) 48 000
 - (2) 48 500
 - (3) 48 600
 - (4) 49 000

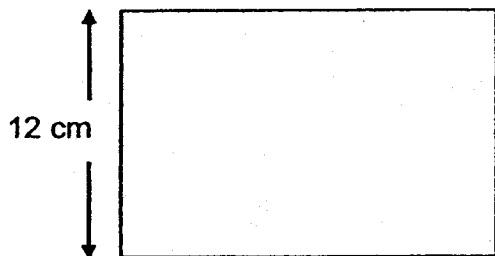
3. Multiply 2756 by 8.
 - (1) 22 048
 - (2) 22 008
 - (3) 21 648
 - (4) 21 608

4. Divide 7063 by 7.
 - (1) 19
 - (2) 109
 - (3) 1090
 - (4) 1009

5. $8\text{ m } 8\text{ cm} = \underline{\hspace{2cm}}\text{ cm.}$

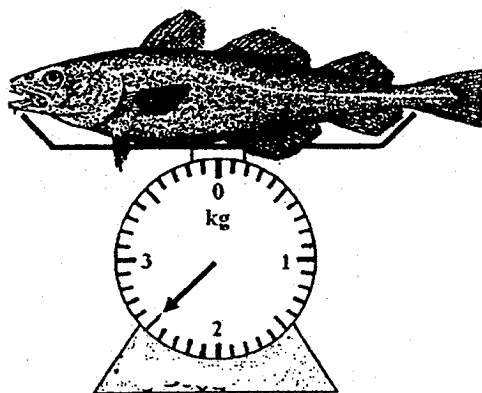
- (1) 88
- (2) 808
- (3) 880
- (4) 8008

6. The perimeter of the rectangle is 60 cm. Find its length.



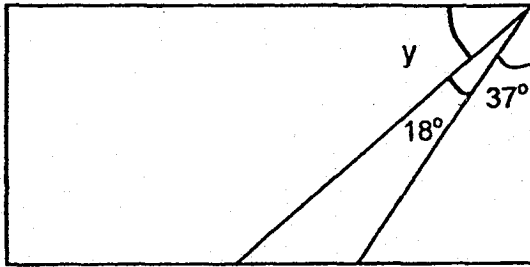
- (1) 5 cm
- (2) 18 cm
- (3) 24 cm
- (4) 36 cm

7. What is the mass of the fish shown below?



- (1) 2 kg 5 g
- (2) 2 kg 50 g
- (3) 2 kg 500 g
- (4) 25 kg

8. The figure below is a rectangle. Calculate $\angle y$.



(1) 35°

(2) 53°

(3) 55°

(4) 72°

9. $\frac{\square}{6} = \frac{6}{9}$

(1) 5

(2) 2

(3) 3

(4) 4

10. Add $\frac{5}{8}$ to $\frac{1}{4}$.

(1) $\frac{6}{8}$

(2) $\frac{7}{8}$

(3) $\frac{6}{12}$

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

11. Subtract $\frac{5}{12}$ from $\frac{2}{3}$.

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

(2) $\frac{7}{12}$

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

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

12. Which of the numbers below are NOT factors of 16?

(1) 1 and 8

(2) 2 and 4

(3) 6 and 32

(4) 8 and 16

13. I am a multiple of 5. When 4 is added to me, I become a multiple of 7 that is less than 50. What number am I?

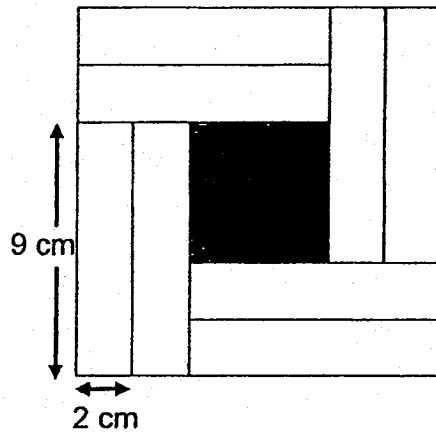
(1) 9

(2) 35

(3) 45

(4) 49

14. The figure below is made up of 8 identical rectangles and 1 shaded square. The length of each rectangle is 9 cm and its breadth is 2 cm. Find the area of the shaded square.



- (1) 16 cm^2
(2) 18 cm^2
(3) 25 cm^2
(4) 49 cm^2
15. Mrs Ho bought jelly beans for her pupils on Children's Day. She packed 45 jelly beans into each small packet. One packet of jelly beans was given to each of her 140 pupils. How many jelly beans did Mrs Ho buy?

- (1) 1260
(2) 1269
(3) 6300
(4) 6345

SECTION B (40 marks)

Questions 16 to 35 carry 2 marks 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.

16. Arrange the numbers below from the largest to the smallest.

1068, 1608, 1680, 1086

Ans: _____

17. The area of a rectangle is 126 cm^2 . Its breadth is 7 cm.
Find the length of the rectangle.

Ans: _____

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

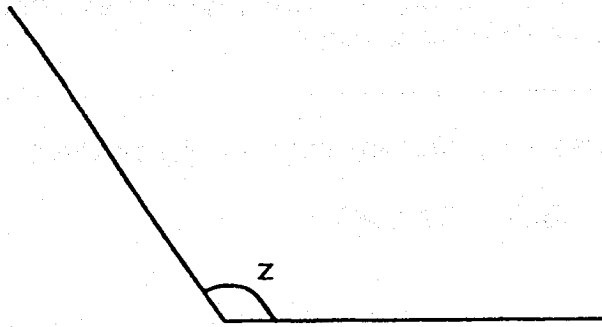
2708, 2808, 2908, _____, _____, 3208

Ans: _____ and _____

19. The area of a square is 36 cm^2 . What is the perimeter of the square?

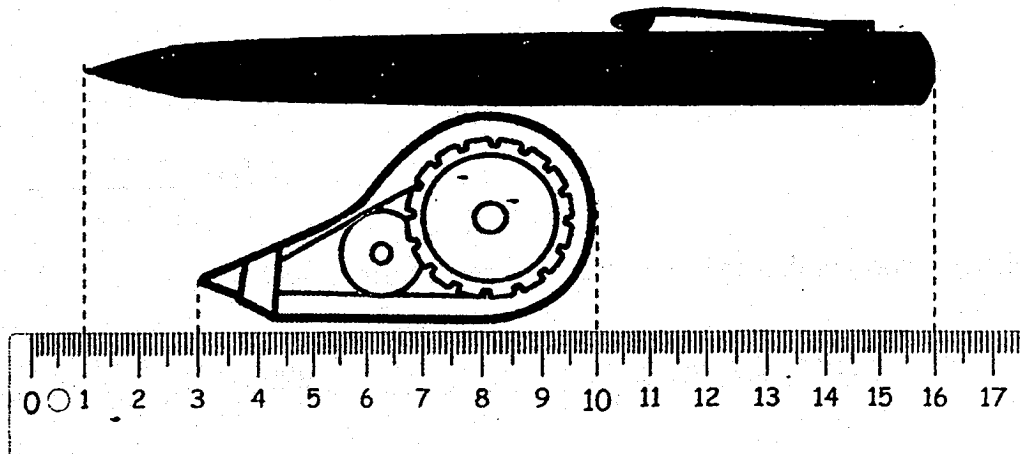
Ans: _____ cm

20. Measure $\angle z$.



Ans: _____^o

21. What is the difference between the length of the pen and the correction tape shown below?

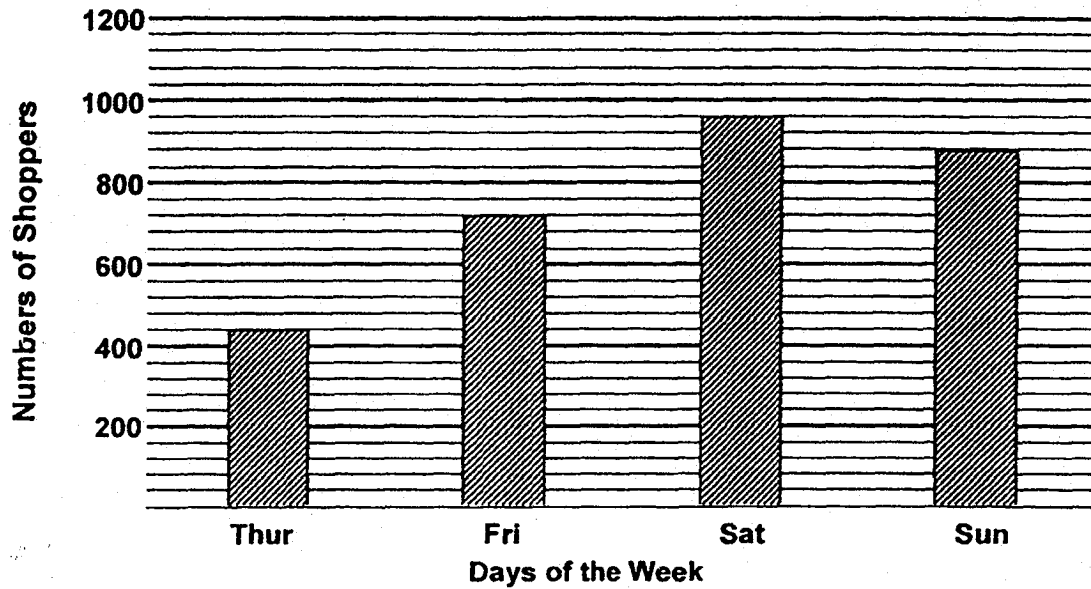


Ans: _____ cm

22. The perimeter of a square is 60 cm. Find the area of the square.

Ans: _____ cm²

The bar graph below shows the number of shoppers at a shopping mall from Thursday to Sunday. Use the information and answer questions 23 and 24.



23. How many shoppers were at the shopping mall on Friday?

Ans: _____

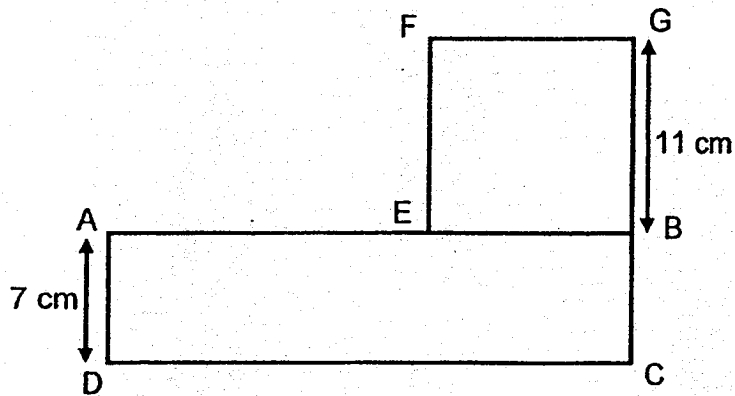
24. What is the difference in the number of shoppers between the day with the largest number of shoppers and the day with the lowest number of shoppers?

Ans: _____

25. Find the sum of all the common factors of 16 and 24.

Ans: _____

26. The figure below is made up of rectangle ABCD and square BEFG. The length of CD is four times the length of AD. Find the length of AE.



Ans: _____ cm

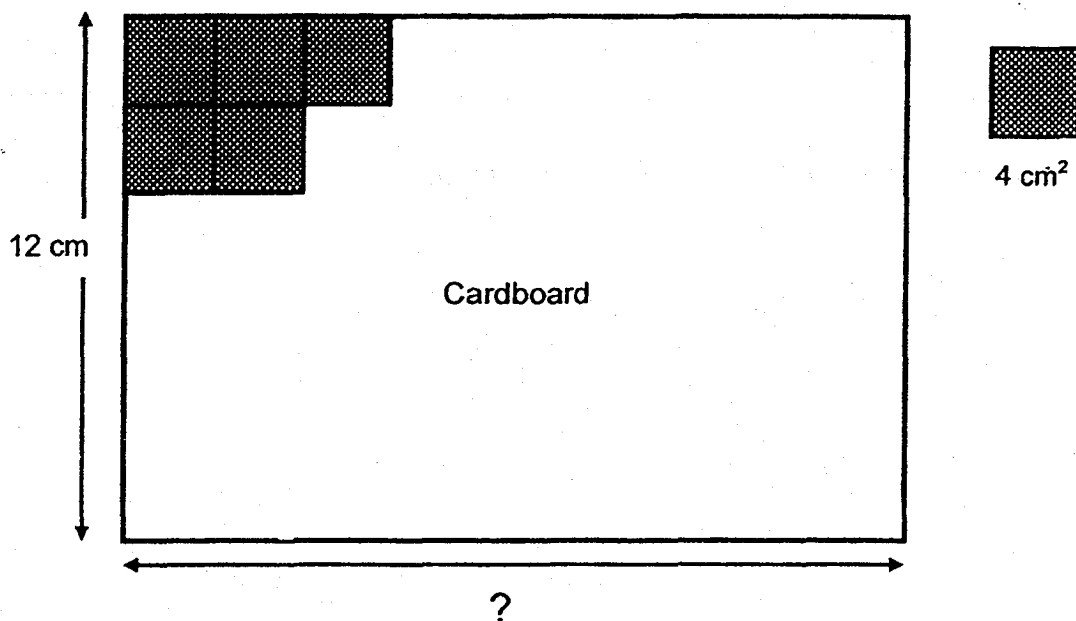
27. When a number is divided by 12, it has a quotient of 564. What is the number?

Ans: _____

28. Kenny bought a laptop for \$2340. He paid \$1872 less for a printer. How much did Kenny spend altogether?

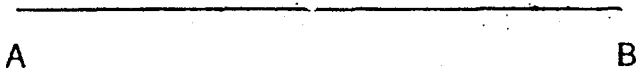
Ans: \$ _____

29. Jabelle had a piece of rectangular cardboard with a width of 12 cm. She covered it completely by pasting 78 pieces of square coloured paper, without overlapping. The area of each piece of square coloured paper is 4 cm^2 . Find the length of the cardboard.



Ans: _____ cm

30. Draw $\angle ABC = 48^\circ$ using the given line. Mark and label the angle.



31. What is the first common multiple of 6 and 9 in which the digit in the ones place is twice the digit in its tens place?

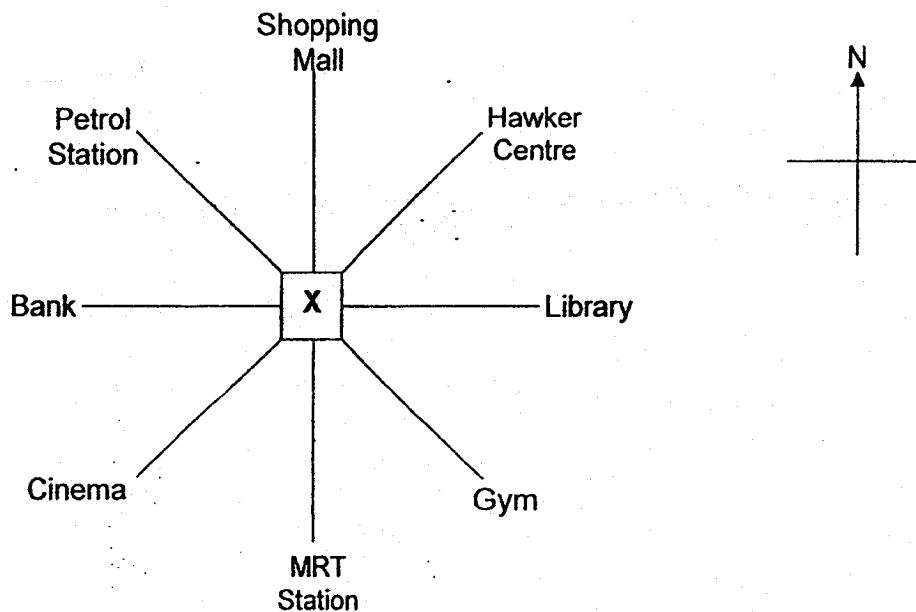
Ans: _____

32. Arrange the fractions from the smallest to greatest.

$$\frac{3}{4}, \frac{5}{6}, \frac{7}{12}$$

Ans: _____

33. Look at the diagram below. Xavier is standing at point X facing north-east now. He turns through an angle of 225° in the anti-clockwise direction. Where will he be facing after the turn?



Ans: _____

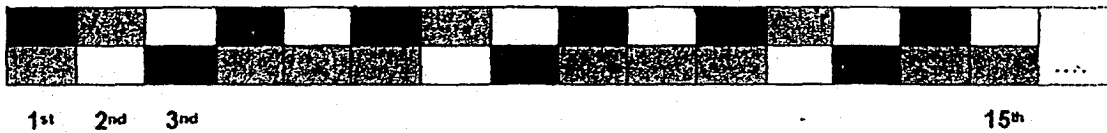
34.

Entrance Fee to Theme Park	
Adult	\$78
Child	\$65

Ben and his younger sister went to the theme park with their parents and grandfather to celebrate Ben's 10th birthday. Ben's father gave the cashier \$400 to pay for the entrance fees. How much change did Ben's father receive?

Ans: \$ _____

35.



A repeated pattern is formed using black, grey and white tiles.
The first 15 columns of the patterns are shown above.
What is the total number of grey and black tiles in the first 55 columns?

Ans: _____

SECTION C (35 marks)

For questions 36 to 44, show your working clearly in the space provided below each question and write your answers with suitable units in the spaces provided. All diagrams are not drawn to scale. Marks will be awarded for relevant working. The number of marks available is shown in brackets [] at the end of each question or part-question.

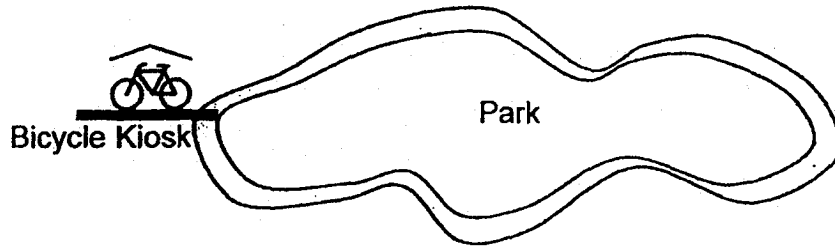
36. There were 12 250 animals in a farm. There were 7380 chickens and the rest were ducks. How many more chickens than ducks were there?

Ans: _____ [3]

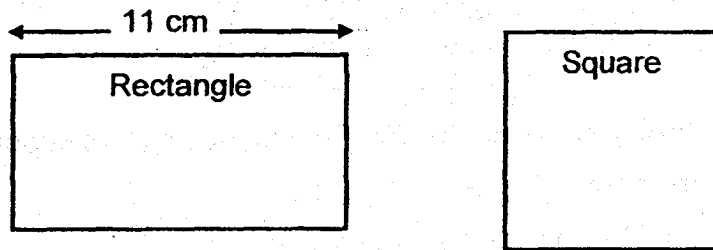
37. Henry bought 2 books from his school bookshop.
The mass of Book A was 258 g and the mass of Book B was 3 times as heavy as Book A.
What was the total mass of both the books?

Ans: _____ [3]

38. Diana, Elsie and Frank went cycling in a park. They started off at the bicycle kiosk at 8 a.m. Diana, Elsie and Frank each took 3 min, 4 min and 6 min respectively to cycle around the park and be back at the bicycle kiosk again. At what time would all three of them be back at the bicycle kiosk together again for the second time?



39. Ella had 2 pieces of wire of equal length. She bent the first wire to form a rectangle with an area of 77 cm^2 . She bent the second wire to form a square. What was the difference in the area of the rectangle and the square?



Ans: _____ [4]

40.



At a bakery, 3 cupcakes were sold for \$8. Sahana bought 258 cupcakes and received a change of \$12 from the cashier.

How much money did Sahana give to the cashier?

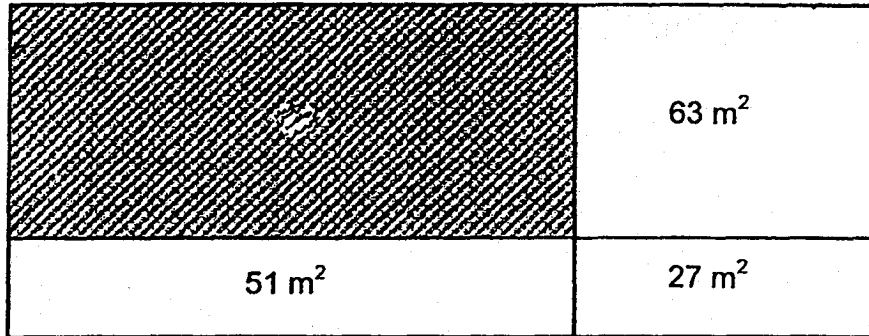
Ans: _____ [4]

41. Su Ling planned to finish reading her new storybook in 18 days by reading 26 pages a day. In the end, she managed to finish the storybook 6 days earlier. How many pages did Su Ling read in a day if she read the same number of pages every day?

42. Claire baked 450 cookies on Monday. She baked 130 more cookies on Tuesday than on Monday. On Wednesday, she baked 210 less cookies than on Tuesday. How many cookies did she bake altogether?

Ans: _____ [4]

43. A farmer bought a rectangular piece of land. He divided it into 4 parts as shown below to grow different kinds of vegetables.
- (a) Find the perimeter of the land he bought.
- (b) Find the area of the shaded part of land.



Ans: a) _____ [3]

b) _____ [2]

44. Mr Tan had 186 mangoes, grapefruits and apples.
There were 8 fewer mangoes than grapefruits.
The number of apples was 2 times the total number of mangoes and grapefruits.
Mr Tan packed all the apples into bags of 4 and sold each bag for \$5.
How much money did he collect from the sale of all the apples?

Ans: _____ [5]

ANSWER KEY

YEAR : 2018
LEVEL : PRIMARY 4
SCHOOL : RAFFLES GIRLS' PRIMARY
SUBJECT : MATHEMATICS
TERM : SA1

SECTION A

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

SECTION B

Q16) 1680, 1608, 1086, 1068

Q17) 28

Q18) 3008 and 3108

Q19) 24

Q20) 125

Q21) 8

Q22) 400

Q23) 720

Q24) 520

Q25) 15

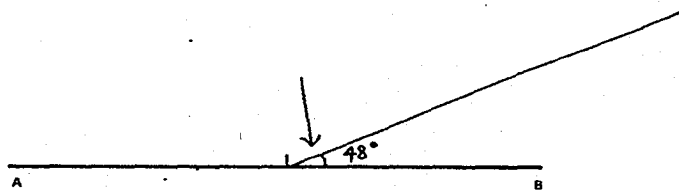
Q26) 17

Q27) 6768

Q28) 2808

Q29) 26

Q30) *Check angle on protractor, as long as angle states 48 against the straight line, mark is given.



Q31) 36

Q32) $\frac{7}{12}, \frac{3}{4}, \frac{5}{6}$

Q33) MRT station

Q34) 40

Q35) 77

SECTION C

Q36) $12250 - 7380 = 4870$

$7380 - 4870 = \underline{2510}$

Q37) Mass of B = 258×3

$= 774$

Altogether = $258 + 774$

$= \underline{1032g}$

Q38) D: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42

E: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48

F: 6, 12, 18, 24, 30, 36, 42, 48, 54, 60

$8\text{am} + 24\text{mins (2}^{\text{nd}} \text{ time)} = \underline{8.24\text{am}}$

Q39) $77 \div 11 = 7$

Perimeter of rectangle = $11 + 7 + 11 + 7$

$= 36$

$36 \div 4 = 9$

$9 \times 9 = 81$

$81 - 77 = \underline{4\text{cm}^2}$

Q40) $258 \div 3 = 86$

$86 \times 8 = 688$

$688 + 12 = \underline{\$700}$

Q41) $18 \times 26 = 468$

$18 - 6 = 12$

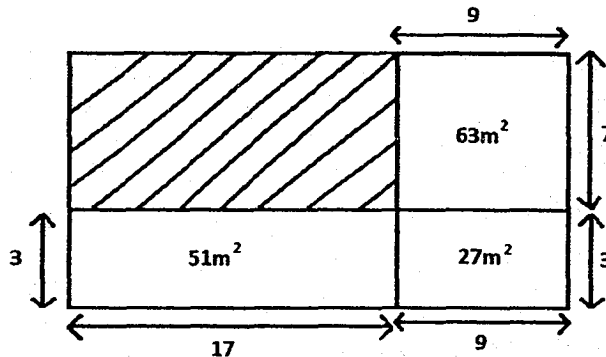
$468 \div 12 = \underline{39}$

Q42) Tuesday $\rightarrow 450 + 130 = 580$

Wednesday $\rightarrow 580 - 210 = 370$

Altogether $\rightarrow 580 + 370 + 450 = \underline{1400}$

Q43a)



$26 + 26 + 10 + 10 = \underline{72\text{cm}}$

Q43b) $17 \times 7 = \underline{119\text{m}^2}$

Q44)

Mango			} 186	
Grapefruit	8			
Apples	Mango	Grapefruit		8
	Mango	Grapefruit		8

$8 \times 3 = 24$

$186 - 24 = 162$

$162 \div 6 = 27$

$27 \times 4 = 108$

$108 + 8 + 8 = 124$

$124 \div 4 = 31$

$31 \times 5 = \underline{\$155}$