RED SWASTIKA SCHOOL

RED SWASTIKA SCHOOL

2016 SEMESTRAL ASSESSMENT 1

MATHEMATICS

Name : _____ (   )

Class : Primary 4 / _____

Date : 9 May 2016

BOOKLET A

20 Questions
40 Marks
**Duration of Paper : 1 hour 45 minutes**

Note:

1. Do not open this Booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the Booklet.
3. Do not waste time. If a question is difficult for you, go on to the next one.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this booklet, you should have the following:
   (a) Page 1 to Page 6
   (b) Questions 1 to 20

Questions 1 to 20 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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(40 marks)

1   In 78 623, the digit '8' stands for _____ .

   (1)   8
   (2)   80
   (3)   800
   (4)   8 000

2   44 687 when rounded off to the nearest thousand is _____ .

   (1)   44 000
   (2)   44 690
   (3)   44 700
   (4)   45 000

3    $516 \div 6 =$ _____

   (1)   84
   (2)   86
   (3)   88
   (4)   96

4   Which of the following is a multiple of both 4 and 7?

   (1)   14
   (2)   16
   (3)   28
   (4)   32

5   Sally had $380. Peter had $120 more than Sally. How much money did Peter have?

   (1) $260
   (2) $400
   (3) $500
   (4) $620

6   Name the marked angle.
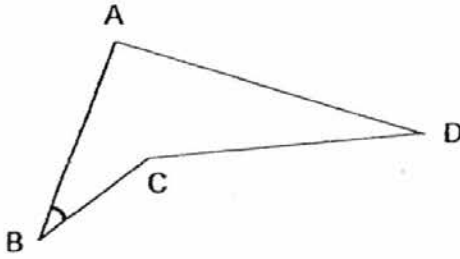
(1)   ∠ABC
(2)   ∠BAD
(3)   ∠ADC
(4)   ∠BCD

7   EFGH is a rectangle. Which of the following incorrectly describes the rectangle?
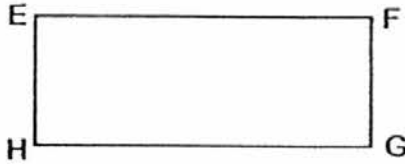
(1)   It has 4 equal sides.
(2)   It has 4 right angles.
(3)   Its opposite sides are equal.
(4)   It has 2 pairs of parallel lines.

8   The height of a pole is 290 cm. What is the height in metres and centimetres?

(1)   2 m 9 cm
(2)   2 m 90 cm
(3)   29 m 9 cm
(4)   29 m 90 cm

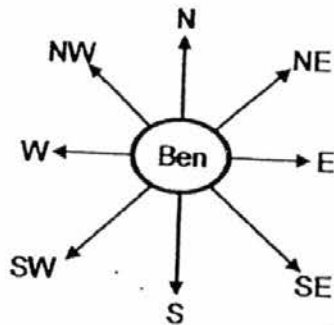9   Complete the number pattern. What is the number in the blank?

14 , 70 , 350 , _____ , 8 750.

(1)   406
(2)   700
(3)   1 750
(4)   2 100

2

10   The product of two numbers is 6 705.
     If one of them is 9, what is the other number?

     (1)   732
     (2)   745
     (3)   59 340
     (4)   60 345

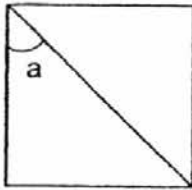Study the diagram below and answer Questions 11 and 12.

11   Ben was facing east. He made a $\frac{1}{2}$ - turn in an anti-clockwise direction. Which
     direction is he facing now?

     (1)   north
     (2)   south
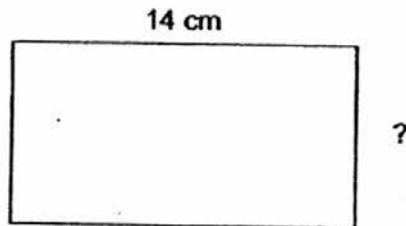   (3)   east
     (4)   west

12   Ben was facing south-west. He made a _____ - turn in a clockwise direction.
     He will be facing south-east now.

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

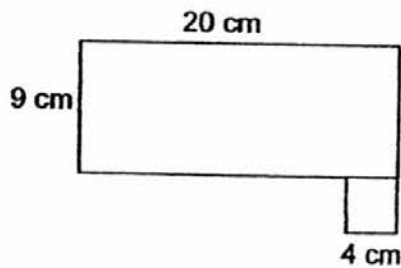   (2) $\frac{1}{2}$

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

     (4)   complete

13 The figure below is a square. Find ∠a.

- (1) 45°
- (2) 60°
- (3) 75°
- (4) 90°

14 The perimeter of a rectangle is 44 cm. Its length is 14 cm. Find its breadth.

14 cm

?

- (1) 8 cm
- (2) 15 cm
- (3) 16 cm
- (4) 30 cm

15 The figure below is made up of a rectangle and a square. Find the area of the figure.
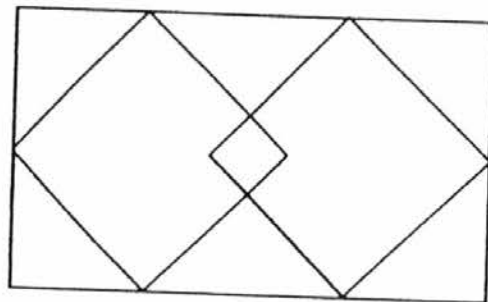
20 cm

9 cm

4 cm

- (1) 16 cm²
- (2) 33 cm²
- (3) 180 cm²
- (4) 196 cm²

16 Rulers are sold in bundles of ten. Mr Lee has 4 classes of 38 students each. How many bundles of rulers should he buy if he wants to give every student one ruler each?

(1) 12
(2) 15
(3) 16
(4) 17
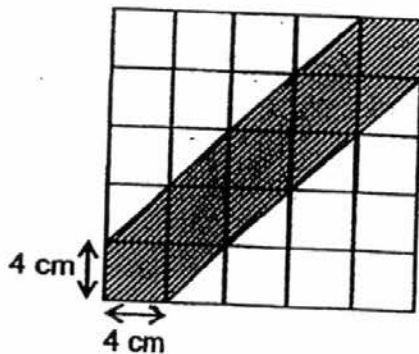
17 The figure is made up of 1 rectangle and 2 identical squares.

How many right angles are there in the figure?

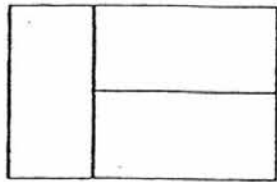(1) 12
(2) 14
(3) 16
(4) 20

18 What is the area of the shaded part?

4 cm

4 cm

(1) 36 cm²
(2) 52 cm²
(3) 144 cm²
(4) 160 cm²

19   The figure is made up of 3 identical rectangles. The breadth of each rectangle is
     9 cm. What is the area of each rectangle?

     (1)   18 cm^2
     (2)   81 cm^2
     (3)   162 cm^2
     (4)   486 cm^2

20   Mary took a school bus from school at 1.40 p.m. The usual journey home takes
     35 minutes. How long the bus was stuck in a traffic jam for 20 minutes. What
     time did Mary reach home?

     (1)   2.00 p.m.
     (2)   2.15 p.m.
     (3)   2.30 p.m.
     (4)   2.35 p.m.

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MATHEMATICS

Name : _____ (   )

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BOOKLET B

28 Questions
60 Marks

In this booklet, you should have the following:
(a) Page 7 to Page 17
(b) Questions 21 to 48

MARKS

	OBTAINED	POSSIBLE
BOOKLET A		40
BOOKLET B		60
TOTAL		100

Parent's Signature : _____

Questions 21 to 30 carry 1 mark each. Questions 31 to 40 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. (30 marks)

21 Eighty thousand and eleven in numerals is _____.

Ans: _____

22 A fruit seller has 1 304 apples. He packs 6 apples in each box. How many apples will there be left?

Ans: _____

23 What is the difference between the smallest factor and biggest factor of 36?

Ans: _____

24 Measure ∠z.
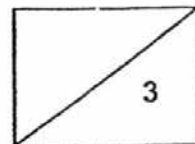
Ans: _____ °

4
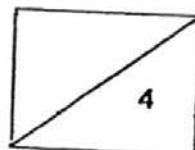
25 MNOP is a rectangle. Find ∠s.

M ⟋ 36° ⟋ N
s ⟋
P ⟍ O
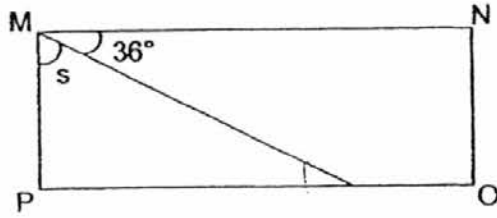
Ans: _____ °

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26 Find the area of the rectangle below.

25 cm
12 cm
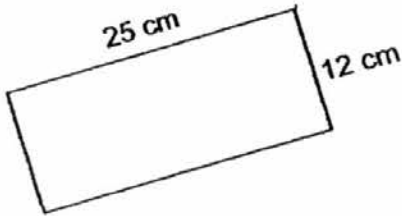
Ans: _____

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27 Use the given protractor to draw and label ∠KLM = 60°

K   L

3
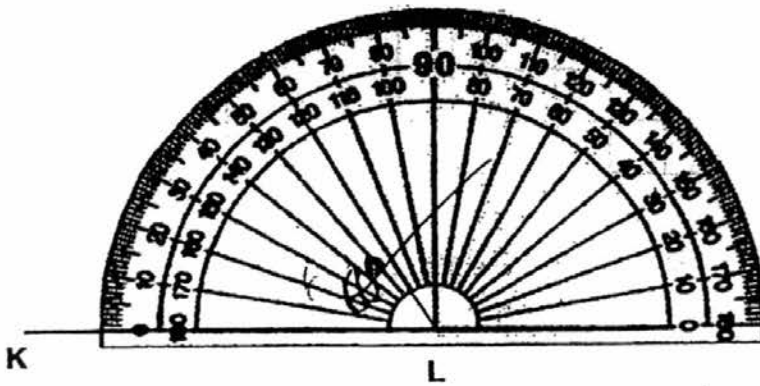
28 In the figure below, ∠XYZ is a right angle. ∠a = 18° and ∠c = 22°. Find ∠b.
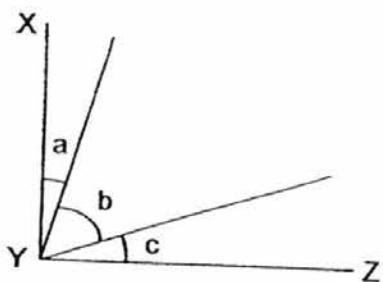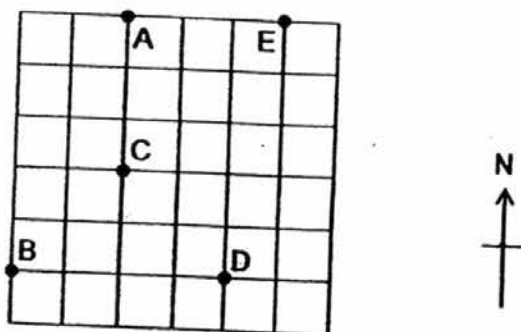

Ans: _____ °

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29 The figure below is made up of 5 identical squares. Find the length of AB.

8 cm
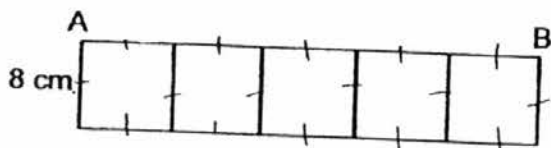
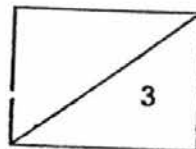Ans: _____

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30 Refer to the square grid and fill in the blanks.

N

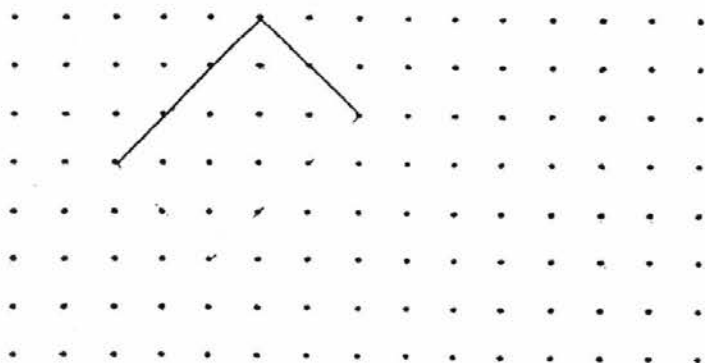Point _____ is south-east of Point _____.

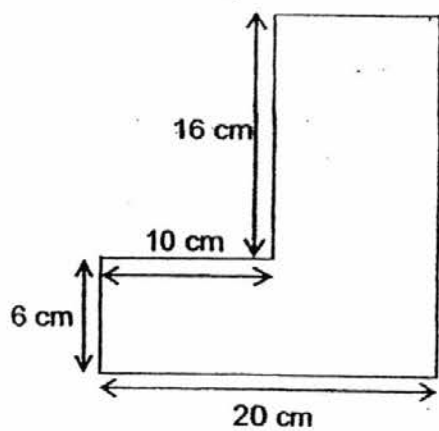Ans: _____ . _____
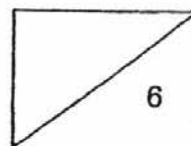
9

3

31 What is product of 45 and 69?

Ans: _____

32 Complete drawing a rectangle with the given lines.

33 Find the perimeter of the figure.

16 cm

10 cm

6 cm

20 cm

Ans: _____ cm

6

34   The bar graph below shows the number of buns a bakery sold from Monday to Friday.

Days of the Week
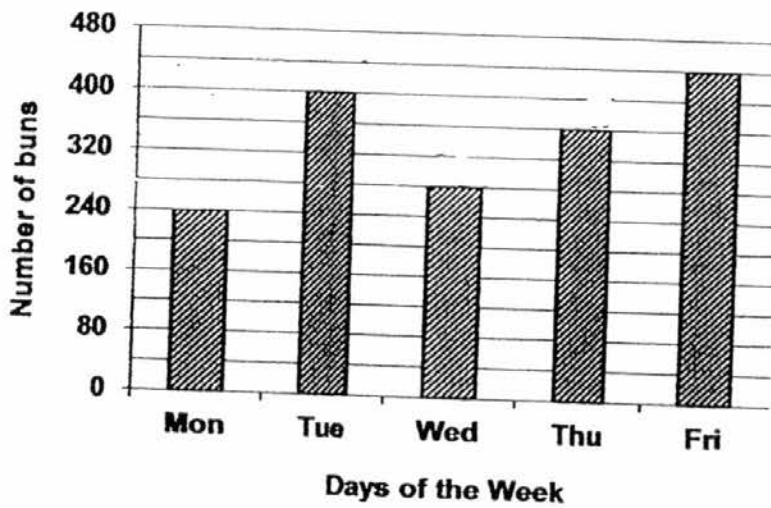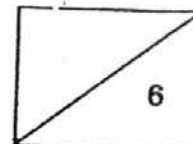
How many buns were sold on Thursday?

Ans: _____

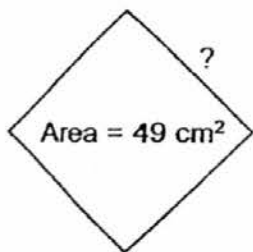**35**   What is the sum of the first and second common multiples of 6 and 8?

Ans: _____

36   The school library had four times as many English books as Chinese books. After 275 Chinese books were added, there were twice as many English books as Chinese books. How many books were there in the end?
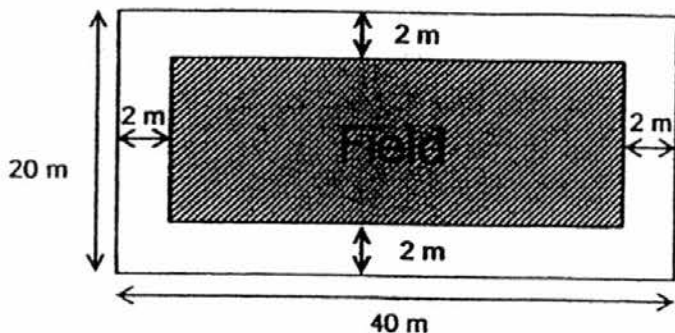
Ans: _____

37   The area of a square is 49 cm². Find the length of one side of the square.

                                           Ans: _____ cm
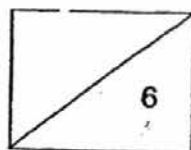
38   A rectangular field has a 2 m wide path around it. Find the area of the path.
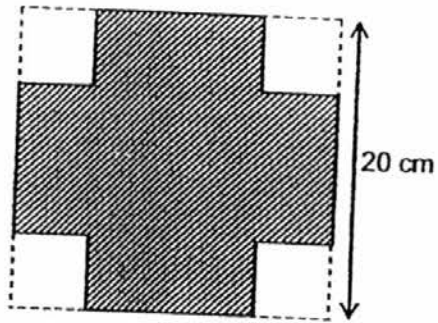

                                           Ans: _____ m²

39   A number when rounded off to the nearest hundred is 3 500.
      What is the greatest possible number?
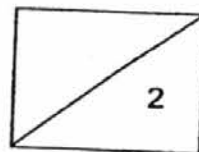
                                           Ans: _____

6

40 4 identical small squares of side 5 cm were cut out from each corner of a piece of square paper of side 20 cm as shown below. Find the area of the remaining piece of paper.

20 cm

Ans: _____ cm²

2

Questions 41 to 48 carry 3 or 4 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. (30 marks)

41 Rayson played tennis for 65 minutes. He rested for 10 minutes before he jogged for 30 minutes. He stopped jogging at 5.40 p.m. What time did he start playing tennis?

Ans : _____ [3]

42 The total cost of a dress and 2 skirts was $370. The dress cost 3 times as much as a skirt. Find the cost of the dress.

Ans : _____ [3]

14
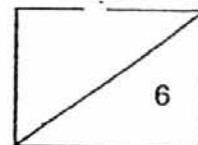
43 The capacity of a jug is 4 times the capacity of a glass. The total capacity of the glass and the glass is 1 200 ml. What is the difference in the capacities between the glass and the jug?
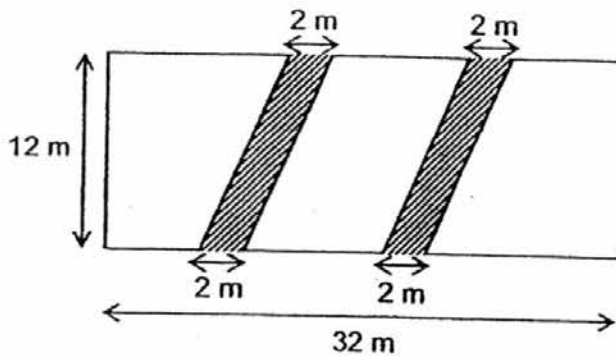
Ans : _____ [4]

44 Mr Tan has some sweets in a box. If each student takes 7 sweets, there will be 5 sweets left in the box. If each student takes 8 sweets, he will need 3 more sweets. How many students are there?
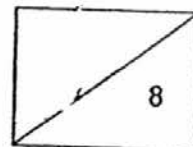
Ans : _____ [4]

15
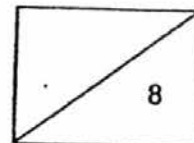
45 2 footpaths, 2 m wide, cut across a field. Find the area of the field not covered by the footpaths.
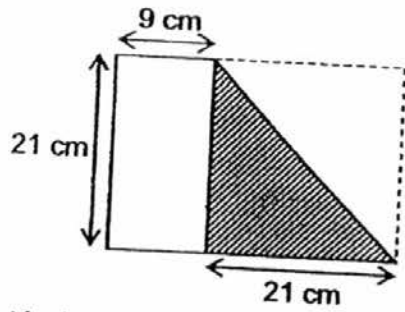

Ans : _____

46 Kate had $226 and Colin had $610. Both of them spent the same amount of money each. The amount of money Colin had left was four times the money Kate had left. How much did each of them spend?

Ans : _____ [4]

16

47 A rectangular piece of paper is folded to form the shape below.

9 cm

21 cm

21 cm

(a) What is the area of the paper when it is unfolded?
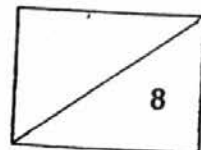
(b) What is the perimeter of the paper when it is unfolded?

Ans : (a) _____ [2]

Ans : (b) _____ [2]

48 The total cost of a mango and a pear was $3.40. The total cost of a mango and an apple was $3.80. Brad bought 4 mangoes, 2 pears and an apple for $13.20. Find the cost of a mango.

Ans : _____ [4]

End of paper

17

8

YEAR   :   2016
LEVEL   :   PRIMARY 4
SCHOOL   :   RED SWASTIKA
SUBJECT   :   MATHEMATICS
TERM   :   SA1

Booklet A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	4	2	3	3	1	1	2	3	2
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
4	3	1	1	4	3	4	3	3	4

Booklet B

Q21   80 011

Q22   2
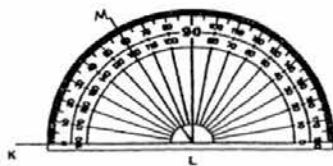
Q23   35

Q24   135 °

Q25   54 °

Q26   300 cm²

Q27

Q28   50 °

Q29   40 cm

Q30   Point D is south-east of Point C.

Q31   3105

Q32
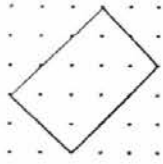
Q33 Perimeter → (10 + 22 + 20 + 6 + 10 + 16) ⇒ <u>84 cm</u>

Q34 320 + 40 ⇒ <u>360 buns</u>

Q35 Multiples of 6 → 6, 12, 18, 24, 30, 36, 42, 48, 54

(24 & 48)

Multiples of 8 → 8, 16, 24, 32, 40, 48, 56

24 & 48

24 + 48 ⇒ <u>72</u>

Q36 275 + 275 = 550
275 x 4 = 1100
1100 + 550 ⇒ <u>1650 books</u>

Q37 $\sqrt[2]{49}$ ⇒ <u>7 cm</u>

Q38 40 x 20 = 800
36 x 16 = 576
800 − 576 ⇒ <u>224 m^2</u>

Q39 3549

Q40 5 x 5 = 25
25 x 4 = 100
20 x 20 = 400
400 − 100 ⇒ <u>300 cm^2</u>

Q41 3.55 pm

Q42 $370 ÷ 5 = $74
$74 x 3 ⇒ <u>$222</u>

Q43

1200 ml ÷ 5 = 240 ml
240 x 4 = 960 ml
960 ml – 240 ml ⟹ <u>720 ml</u>

Q44

$$\underline{\quad\quad\quad\quad x\,7\quad\quad\quad\quad}$$
7, 14, 21, 28, 35, 42, 49, 56
↓
$$\underline{\quad\quad\quad\quad +\,5\quad\quad\quad\quad}$$
12, 17, 26, 33, 40, 49, 54, 61

$$\underline{\quad\quad\quad\quad x\,8\quad\quad\quad\quad}$$
8, 16, 24, 32, 40, 48, 56, 64
↓
$$\underline{\quad\quad\quad\quad -\,3\quad\quad\quad\quad}$$
5, 13, 21, 29, 37, 45, 53, 61

61 – 5 → 56
56 ÷ 7 ⟹ <u>8 students</u>

Q45

12 x 2 = 24
12 x 2 = 24
24 + 24 = 48
12 x 32 = 384
384 – 48 ⟹ <u>336 m²</u>

Q46

$610 - $226 = $384
$384 ÷ 3 = $128
$226 - $128 ⟹ <u>$98</u>

Q47

(a) 21 + 9 = 30 cm
     30 x 21 ⟹ <u>630 cm²</u>

(b) 30 + 21 + 30 + 21 ⟹ <u>102 cm</u>

Q48

Mango & pear → $3.40
$3.40 + $3.40 = $6.80
$13.20 - $6.80 = $6.40
Mango & apple → $3.80
$6.40 - $3.80 ⟹ <u>$2.60 per mango</u>

End