N183 Proportion 1

Q1.

2.5 kg of apples cost £3.60

Work out the cost of 3.5 kg of apples.

£ ....

(Total for question = 2 marks)

Q2.

There are 84 calories in 100 g of banana.
There are 87 calories in 100 g of yogurt.

Priti has 60 g of banana and 150 g of yogurt for breakfast.

Work out the total number of calories in this breakfast.

....

(Total for question = 4 marks)

Q3.

3 jars of paprika and 4 packets of sage have a total weight of 290 grams.
7 jars of paprika have a total weight of 210 grams.

Work out the total weight of 2 jars of paprika and 2 packets of sage.

.... g

(Total for question = 4 marks)

Q4.

400 g of raspberries and 300 g of strawberries cost a total of £7.46
500 g of strawberries cost £4.10

Work out the total cost of 200 g of raspberries and 200 g of strawberries.

£ ....

(Total for question = 4 marks)

Q5.

Here are the instructions for making a drink.

Add 100 ml of juice
to 2 litres of water

Dev uses 5 litres of water to make the drink.

How much drink has he made?

....

(Total for question = 3 marks)

Q6.

Here is a list of ingredients needed to make 12 scones.

Ingredients for 12 scones

220 g self-raising flour
40 g butter
150 ml milk
2 tablespoons sugar

Viv is making scones for 15 people.
She is making 2 scones for each person.

Work out the amount of each ingredient she needs.

Self-raising flour . . . . g

Butter . . . . g

Milk . . . . ml

Tablespoons of sugar . . . .

(Total for Question is 3 marks)

Q7.

Here are the ingredients needed to make 10 pancakes.

Pancakes

Ingredients to make **10** pancakes

300 m*l* of milk
120 g   of flour
2   eggs

Matthew makes 30 pancakes.

(a) Work out how much flour he uses.

.... g

(2)

Tara makes some pancakes.
She uses 750 m*l* of milk.

(b) Work out how many pancakes she makes.

....

(2)

(Total for Question is 4 marks)

Q8.

Here are the ingredients needed to make 16 biscuits.

Biscuits

Ingredients to make 16 biscuits

175 g of butter
75 g of sugar
250 g of flour

Anna has

500 g of butter
300 g of sugar
625 g of flour

Work out the greatest number of biscuits Anna can make.

....

(Total for question = 3 marks)

Q9.

Here are the ingredients needed to make **8** shortbread biscuits.

Shortbread biscuits
makes **8** biscuits

120 g butter
60 g caster sugar
180 g flour

Tariq is going to make some shortbread biscuits.
He has the following ingredients

330 g butter   200 g caster sugar   450 g flour

Work out the greatest number of shortbread biscuits that Tariq can make with his ingredients.
You must show all your working.

.... biscuits

(Total for question = 3 marks)

Q10.

Stephen is making soup.

He mixes one packet of soup with water to make 6 litres of soup.

Stephen has to make 90 bowls of soup.
 He wants to put 0.2 litres of soup into each bowl.

How many packets of soup does Stephen need?

(Total for Question is 3 marks)

Q11.

* Orange squash is used to make orange drink.
  Jill is going to make orange drink for 50 people.

She is going to make 2 full glasses of orange drink for each person.
  She needs 250 millilitres of orange drink for each glass.

Here are the instructions for making orange drink.

Mix 1 part of orange squash with 4 parts of water.

A one litre bottle of orange squash costs £2

Work out the total cost of the bottles of orange squash Jill needs to buy.
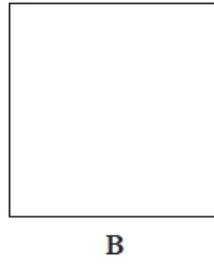
(1 litre = 1000 millilitres)

(Total for Question is 5 marks)

Q12.

Here are two squares, **A** and **B**.

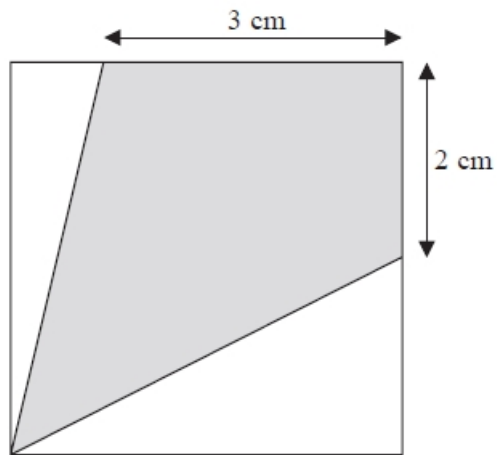The length of the side of square **A** is 50% of the length of the side of square **B**.

Express the area of the shaded region of square **A** as a percentage of the area of square **B**.

.... %

(Total for question = 3 marks)

Q13.

The diagram shows a square with perimeter 16 cm.

Work out the proportion of the area inside the square that is shaded.

....

(Total for question = 5 marks)