Mixed Ratio Revision

Question1

Keith and Graham share £105 in the ratio 4:3

Work out how much Keith gets.

(Total for Question is 2 marks)

Question 2

A pile of sand has a weight of 60 kg.

The sand is put into a small bag, a medium bag and a large bag in the ratio 2 : 3 : 7

Work out the weight of sand in each bag.

small bag . . . . kg

medium bag . . . . kg

large bag . . . . kg

(2 marks)

Question 3

* 225 grams of flour are needed to make 9 cakes.

Marian wants to make 20 of these cakes.

She has 475 grams of flour.

Does Marian have enough flour to make 20 cakes?

You must show all your working.

(Total for Question is 3 marks)

Question 4

Here are the ingredients needed to make 16 gingerbread men.

> Ingredients
> to make **16** gingerbread men
> 180 g flour
> 40 g ginger
> 110 g butter
> 30 g sugar

Hamish wants to make 24 gingerbread men.

Work out how much of each of the ingredients he needs.

. . . . g flour

. . . . g ginger

. . . . g butter

. . . . g sugar

(Total for Question is 3 marks)

Question 5

* Talil is going to make some concrete mix. He needs to mix cement, sand and gravel in the ratio 1 : 3 : 5 by weight.

Talil wants to make 180 kg of concrete mix.

Talil has

15 kg of cement
85 kg of sand
100 kg of gravel

Does Talil have enough cement, sand and gravel to make the concrete mix?

You must show all your working.

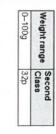(Total for Question is 4 marks)

Question 6

A company sends every item of mail by second class post.

Each item of mail is either a letter or a packet.

The tables show information about the cost of sending a letter by second class post and the cost of sending a packet by second class post.

Letter

Weight range	Second Class
0–100g	32p

Packet

Weight range	Second Class
0–100g	£1.17
101–250g	£1.51
251–500g	£1.95
501–750g	£2.36
751–1000g	£2.84

The company sent 420 items by second class post.

The ratio of the number of letters sent to the number of packets sent was 5 : 2

⅔ of the packets sent were in the weight range 0 – 100 g.

The other packets sent were in the weight range 101 – 250 g.

Work out the total cost of sending the 420 items by second class post..

(Total for Question is 5 marks)

Question 7

Mrs Jennings shares £770 between her two sons, Pete and Tim. She shares the money in the ratio of her sons' ages. The combined age of her two sons is 66 years .Pete is 6 years younger than Tim.

Work out how much money each son gets.

You must show all your working.

(Total for Question is 5 marks)