Proportion

Question Paper

Level	GCSE
Subject	Maths
Exam Board	Edexcel GCSE
Topic	Proportion
Grade Level	Grade 3
Booklet	Question Paper

Time Allowed: **33 minutes**

Score: **/27**

Percentage: **/100**

Grade Boundaries:

1. Here is a list of ingredients for making **10** Flapjacks.

> **Ingredients for 10 Flapjacks**
>
> 80 g rolled oats
>
> 60 g butter
>
> 30 m*l* golden syrup
>
> 36 g light brown sugar

Work out the amount of each ingredient needed to make **15** Flapjacks.

.... g rolled oats

.... g butter

.... m*l* golden syrup

.... g light brown sugar

(Total 3 marks)

2. Fred has a recipe for 30 biscuits.

Here is a list of ingredients for 30 biscuits.

Self-raising flour : 230g
Butter   : 150g
Caster sugar   : 100g
Eggs   : 2

Fred wants to make 45 biscuits.

(a) Complete his new list of ingredients for 45 biscuits.

Self-raising flour   :…………………

Butter   : …………………

Caster sugar   : …………………

Eggs   : …………………

(3)

Gill has only 1 kilogram of self-raising flour. She has plenty of the other ingredients.

(b) Work out the maximum number of biscuits that Gill could bake.

....

(3)

(6 marks)

3. 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

(3 marks)

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4.   Here are the ingredients needed to make 12 shortcakes.

> **Shortcakes**
>
> Makes **12** shortcakes
>
> 50 g   of sugar
> 200 g   of butter
> 200 g   of flour
> 10 m*l* of milk

Liz makes some shortcakes.
She uses 25 m*l* of milk.

(a) How many shortcakes does Liz make?

....
(2)

Robert has   500 g of sugar
              1000 g of butter
              1000 g of flour
              500 m*l* of milk

(b) Work out the greatest number of shortcakes Robert can make.

....
(2)

(4 marks)

_____

5. Here is a list of ingredients for making 12 small cakes.

Ingredients for 12 small cakes
180 g margarine
180 g sugar
200 g plain flour
1 teaspoon baking powder
2 eggs

Joe is going to make 24 of the small cakes.

(a) Work out how much margarine he needs.

(2)

.... g

Sharon is going to make 18 of the small cakes.

(b) Work out how much flour she needs.

(2)

.... g

(Total for Question 4 = 4 marks)

*6. This is a list of ingredients for making a pear & almond crumble for 4 people.

Ingredients for 4 people:
80 g plain flour
60 g ground almonds
90 g soft brown sugar
60 g butter
4 ripe pears

Jessica wants to make a pear & almond crumble for 10 people.

Here is a list of the amount of each ingredient Jessica has in her cupboard.

250 g plain flour
100 g ground almonds
200g soft brown sugar
150 g butter
8 ripe pears

Work out which ingredients Jessica needs to buy more of.
You must show all of your working.

(4 marks)

*7.   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.

(3 marks)

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