



Education Consultancy

Edexcel GCSE Mathematics PROPORTION

Materials Required:

- Pen - HB Pencil - Ruler (in centimetres and millimetres) - Protractor

- Compass

Information:

- The marks allocated for each question are displayed within brackets – utilise this information to gauge the appropriate amount of time to dedicate to each question

- Questions marked with an asterisk (*) will assess your written communication; be careful of spelling, punctuation and grammar with these questions

Instructions:

Use a black ink pen to answer all questions
Fill your name in the section below
Answer the questions in the spaces provided
Show your working out for all answers

Advice:

- Carefully read the question before attempting to answer it
- Be vary of time and try to answer every question

- If you have enough time in the end, go back and check your answers. A good way to check your answers is to retry the question with the hope of getting the same answer as before without looking at your working out from before

NO CALCULATOR ALLOWED

NAME:

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

× * _ 3

Ingredients for 10 Flapjacks

80 g rolled oats

60 g butter

30 ml 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.

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

Self-raising flour	······
Butter	·
Caster sugar	· · · · · · · · · · · · · · · · · · ·
Eggs	:(3)

Jr.

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.

ingree	nents
to make 16 gin	gerbread mer
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.

(3 marks)
 g sugar
 g butter
 g ginger
 g flour

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

Shortcakes		
Makes 12 shortcakes		
50 g 200 g 200 g 10 m/	of sugar of butter of flour of milk	

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

(a) How many shortcakes does Liz make?

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)

(2)

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.

Sharon is going to make 18 of the small cakes.

(b) Work out how much flour she needs.

.....<u>g</u> (2)

..... g

(2)

(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 flour100 g ground almonds200g soft brown sugar150 g butter8 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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