

Proportion – Recipes (F)

A collection of 9-1 Maths GCSE Sample and Specimen questions from AQA, OCR, Pearson-Edexcel and WJEC Eduqas.

Name:	
Total Marks:	

1. Jane made some almond biscuits which she sold at a fete.

She had:

- 5 kg of flour
- 3 kg of butter
- 2.5 kg of icing sugar
- 320 g of almonds

Here is the list of ingredients for making 24 almond biscuits.

Ingredients for 24 almond biscuits	
150 g	flour
100 g	butter
75 g	icing sugar
10 g	almonds

Jane made as many almond biscuits as she could, using the ingredients she had.
Work out how many almond biscuits she made.

.....
[3]

2. Here is a list of ingredients for making chocolate mousse for 2 people.

Chocolate mousse for 2 people	
40 grams	sugar
110 grams	dark chocolate
2	eggs
$\frac{1}{4}$	teaspoon lemon juice

Ellie has 250 grams of sugar and 550 grams of dark chocolate.

She assumes that she has plenty of lemon juice and plenty of eggs.

(a) What is the greatest number of people Ellie can make chocolate mousse for?

You must justify your answer.

[3]

Ellie only has 6 eggs.

(b) What effect would this have on the greatest number of people Ellie can make chocolate mousse for?

[1]

3. Here is a list of ingredients for making 16 mince pies.

Ingredients for 16 mince pies

240 g of butter
350 g of flour
100 g of sugar
280 g of mincemeat

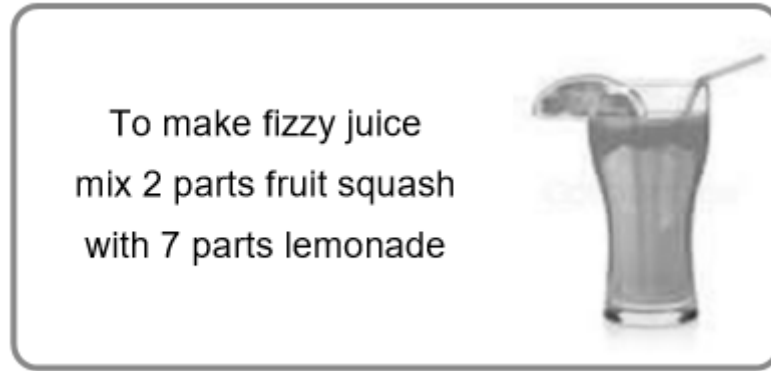
Elaine wants to make 72 mince pies.

How much of each ingredient will Elaine need?

butter g
flour g
sugar g
mincemeat g

[3]

4. Here are the instructions on a bottle of fruit squash.



a) How much fruit squash is needed to make 450 ml of fizzy juice?

[2]

b) Tom has 80 ml of fruit squash.

He also has 210 ml of lemonade.

What is the maximum amount of fizzy juice he can make?

[3]

CREDITS AND NOTES

Question	Awarding Body
1	Pearson Edexcel
2	Pearson Edexcel
3	Pearson Edexcel
4	AQA

Notes:

These questions have been retyped from the original sample/specimen assessment materials and whilst every effort has been made to ensure there are no errors, any that do appear are mine and not the exam board's (similarly any errors I have corrected from the originals are also my corrections and not theirs!).

Please also note that the layout in terms of fonts, answer lines and space given to each question does not reflect the actual papers to save space.

These questions have been collated by me as the basis for a GCSE working party set up by the GLOW maths hub - if you want to get involved please get in touch. The objective is to provide support to fellow teachers and to give you a flavour of how different topics "could" be examined. They should not be used to form a decision as to which board to use. There is no guarantee that a topic will or won't appear in the "live" papers from a specific exam board or that examination of a topic will be as shown in these questions.



Links:

AQA <http://www.aqa.org.uk/subjects/mathematics/gcse/mathematics-8300>

OCR <http://ocr.org.uk/gcsemaths>

Pearson Edexcel <http://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics-2015.html>

WJEC Eduqas <http://www.eduqas.co.uk/qualifications/mathematics/gcse/>

Contents:

This version contains questions from:

AQA – Sample Assessment Material, Practice set 1 and Practice set 2

OCR – Sample Assessment Material and Practice set 1

Pearson Edexcel – Sample Assessment Material, Specimen set 1 and Specimen set 2

WJEC Eduqas – Sample Assessment Material