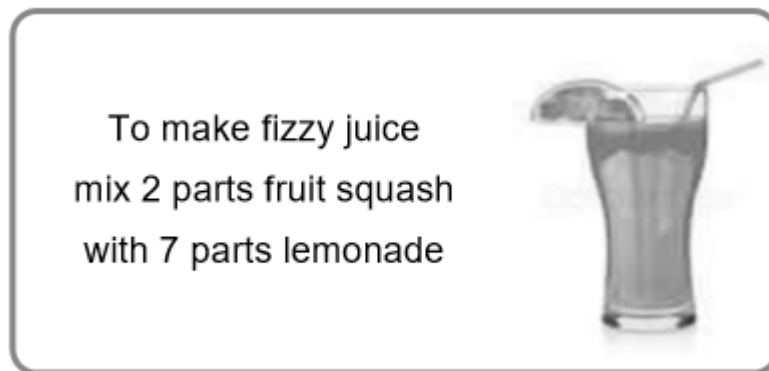


Proportion – Recipes (H & F)

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

Name:	Mel@JustMaths
Total Marks:	Worked Solutions

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



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?

$$\begin{array}{l} \text{Squash : lemonade} \\ 2 : 7 \\ \times 40 \downarrow 80 : 280 \downarrow \times 40 \quad \times \text{ not enough lemonade} \end{array}$$

[3]

$$\begin{array}{l} 2 : 7 \\ \times 30 \downarrow 60 : 210 \downarrow \times 30 \\ \underbrace{\hspace{10em}} \\ \text{amount of fizzy juice} = 270\text{ml.} \end{array}$$

The maximum amount he can make is 270ml. This will use all the lemonade and 60ml of the squash

CREDITS AND NOTES

Question	Awarding Body
1	AQA
2	
3	
4	

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