

Currency & Unit Conversion (H)

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

Name:	Mel@JustMaths
Total Marks:	

1. Circle the area that is the same as 5.5 m^2

550 cm^2

5 500 cm^2

55 000 cm^2

5 500 000 cm^2

$1 \text{ m} = 100 \text{ cm} \rightarrow 1 \text{ m}^2 = 10000 \text{ cm}^2$
 5.5 m^2

$5.5 \text{ m} = 550 \text{ cm}$

550×100
 $55,000$

[1]

2. Asif is going on holiday to Turkey.

The exchange rate is $\text{£}1 = 3.5601$ lira.

Asif changes $\text{£}550$ to lira.

(a) Work out how many lira he should get.

Give your answer to the nearest lira.

$550 \times 3.5601 = 1958.055$

1958 lira

..... lira [2]

Asif sees a pair of shoes in Turkey.

The shoes cost 210 lira.

Asif does not have a calculator.

He uses $\text{£}2 = 7$ lira to work out the approximate cost of the shoes in pounds.

(b) Use $\text{£}2 = 7$ lira to show that the approximate cost of the shoes is $\text{£}60$

$\text{£}2 = 7 \text{ lira}$
 $\text{£}60 \quad 210 \text{ lira}$
 $\times 30 \quad \times 30$

$\text{£}2 \times 30$
 $= \text{£}60$

[2]

- (c) Is using $\text{£}2 = 7$ lira instead of using $\text{£}1 = 3.5601$ lira a sensible start to Asif's method to work out the cost of the shoes in pounds?

$\text{£}2 = 3.5601$

$\times 2$
 $= 7.1202 \text{ lira}$

You must give a reason for your answer.

Yes its a sensible start as its only

0.12 lira difference between the estimate and the actual price.

[1]

3. Three companies sell the same type of furniture.

The price of the furniture from Pooles of London is £1480

The price of the furniture from Jardins of Paris is €1980

The price of the furniture from Outways of New York is \$2250

The exchange rates are

£1 = €1.34 Paris

£1 = \$1.52 N.York

Jardins of Paris
sells it at the cheapest
price

$1477.61 < 1480 < 1480.26$

Which company sells this furniture at the lowest price?

You must show how you get your answer.

London
£1480

Paris
€1980
 $\div 1.34$
 $= £1477.61$
(nearest 1p)

N.York
\$2250
 $\div 1.52$
£1480.26
(nearest 1p)

[3]

4. In this question use

1 pound = 0.4536 kilograms = 453.6 grams

1 inch = 2.54 centimetres 1 square inch = 2.54×2.54

The pressure of a basketball is 7.5 pounds per square inch. = 6.4516

Work out this pressure in grams per square centimetre.

7.5 pounds / inch²

$\times 453.6g$

3402 g / inch²

$\div 6.4516$

3402g = 6.4516 cm²

527.3110546 → 1 cm²

answer = 527 g/cm²

[4]

CREDITS AND NOTES

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

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