

Decimals – including money (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. Work out 6.34×5.2

$$\overbrace{6.34} \times \overbrace{5.2}$$

$$\begin{array}{r} 634 \\ \times 52 \\ \hline 1268 \\ 31700 \\ \hline 32966 \end{array}$$

$$32.966$$

$$32.966$$

..... [2]

2. Henry is thinking of having a water meter.

These are the two ways he can pay for the water he uses.

Water Meter

A charge of £28.20 per year

plus

91.22p for every cubic metre of water used

1 cubic metre = 1000 litres

No Water Meter

A charge of £107 per year

$$107 - 88.13 = 18.87 \text{ cheaper.}$$

Henry uses an average of 180 litres of water each day.

Use this information to determine whether or not Henry should have a water meter.

180 litres per day

$$180 \times 365 = 65700 \text{ litres.}$$

$$65,700 \text{ litres} = 65.7 \text{ cubic metres}$$

$$65700 \div 1000 = 65.7$$

$$\text{cost } 65.7 \times 91.22 = 5993.154 \text{ p} = \underline{\underline{£59.93}}$$

[5]

$$\text{total cost} = 59.93 + 28.20 = \underline{\underline{£88.13}}$$

★ it is cheaper to have a water meter so Henry should have one.

CREDITS AND NOTES

Q	Awarding Body
1	Pearson Edexcel
2	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