

Number Problems (H & F)

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

Name:	Mela Jost Maths
Total Marks:	

1. Becky has some marbles.

Chris has two times as many marbles as Becky.

Dan has seven more marbles than Chris.

They have a total of 57 marbles.

Dan says:

$$b = 3c$$
 $c = 2x$
 $D = 2x + 7$
 $c = 20$
 $c = 2x$
 $c = 20$
 $c = 20$

"If I give some marbles to Becky, each of us will have the same number of

marbles."

Is Dan correct? NO

You must show how you get your answer.

C=20

D=27

for then each to have the same number their would each need to have 19. It Dangque

Bedry 8, she would only have 18. Dan needs to 2. Tomas ran a Lucky Dip stall

705-7745 = 5x1.50



LUCKY DIP



Tickets 50p

Tickets ending 00 win £12-> 100,200,...700 = 7holes

Tickets ending 5 win £1.50

There were 750 tickets, numbered 1 to 750

Tomas sold all the winning tickets, and some of the losing tickets.

He made a profit of £163

= £7.50

How many losing tickets did he sell?



3. Jack works out the answer to $\frac{\sqrt{98.5} - 12.1}{-0.8}$

NON CALC

He says the answer is negative.

Is he correct?

You must show your working.

a regature duridea by a regature is a positive

Jack is wrang.



CREDITS AND NOTES

Question	Awarding Body
1	Pearson Edexcel
2	AQA
3	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-qcses/mathematics-2015.html

WJEC Edugas http://www.edugas.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