

Percentages (H)

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

Name:	
Total Marks:	

1. (a) In an election, Stella gained 28 416 votes out of a total of 38 400 votes.

Write 28 416 as a percentage of 38 400.

[2]

(b) Jake needs to find a selling price which is 12% more than £766.

Find the selling price.

[2]

2. Circle the calculation that increases 400 by 7%

400×0.07

400×0.7

400×1.07

400×1.7

[1]

3. In a company, the ratio of the number of men to the number of women is 3:2

40% of the men are under the age of 25

10% of the women are under the age of 25

What percentage of all the people in the company are under the age of 25?

.....% [4]

4. In 1999 the minimum wage for adults was £3.60 per hour.
In 2013 it was £6.31 per hour.
Work out the percentage increase in the minimum wage.

_____ % [3]

5. A shop has a sale that offers 20% off all prices.
On the final day they reduce all sale prices by 25%.
Alex buys a hairdryer on the final day.
Work out the overall percentage reduction on the price of the hairdryer.

..... % [6]

6. Kamile sells sandwiches.
In May, she sold 400 sandwiches.
In June, Kamile sold 20% more sandwiches than in May.
In July, Kamile sold 15% fewer sandwiches than in June.
Calculate the percentage change in her sales from May to July.

..... % [5]

7. In a school, 60% of the students are girls.

50% of the girls walk to school.

20% of the boys walk to school.

What percentage of the students walk to school?

[3]

8. A shop has a sale.

Microwave ovens
 $\frac{1}{3}$ off normal price

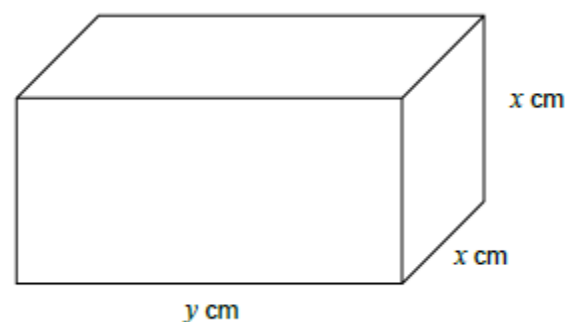
Combination ovens
 40% off normal price

Which of these ovens has the greater normal price?

You must show all your working.

[4]

9. A cuboid has dimensions x cm, x cm and y cm



x is increased by 10%
 y is decreased by 20%

Work out and describe the percentage change in the volume of the cuboid.

[4]

10. Sophie sells birthday cards.

She adds 30% profit to the cost price.

She sells the cards for £2.34 each.

She wants to increase her profit to 40% of the cost price.

How much should she sell each card for?

[3]

CREDITS AND NOTES

Q	Awarding Body	Q	Awarding Body	Q	Awarding Body
1	WJEC Eduqas	6	OCR		
2	AQA	7	AQA		
3	Pearson Edexcel	8	Pearson Edexcel		
4	AQA	9	AQA		
5	OCR	10	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 and Practice set 1

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

