

Similarity

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

Name:	
Total Marks:	

- 1. The areas of two rectangles A and B are in the ratio 1 : 3 respectively. Rectangle A measures 4m by 3m.
- (a) (i) Give a possible pair of values for the length and width of rectangle B.

(ii) Give a different possible pair of values for the length and width of rectangle B.

Length = Width = [1]

- (b) Are the two rectangles you have identified in part (a) similar?You must give a reason for your answer.
- Which shape is congruent to shape X?
 Circle the correct letter.

[1]







[1]





- Which of these is not used to prove that triangles are congruent? Circle your answer.
 - SSS SAS AAA RHS
- 4. In the diagram below, AE and BD are straight lines.



(a) Show that triangles ABC and EDC are similar.

(b) The length DE is 3.5 m.

The ratio BC : CD = 3 : 1.

Find the length AB.

..... m [2]

5. The smallest angle of a triangle is 25°
The triangle is enlarged by scale factor 3
Ben says,
"The smallest angle of the enlarged triangle is 75° because 25 × 3 = 75"

Is Ben right?

Explain your answer.

[3]

JustMaths

stion	Awarding Body
1	WJEC Eduqas
2	AQA

<u>AQA</u> OCR

Pearson Edexcel

CREDITS AND NOTES

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!).

Oues

3

4 5

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.



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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.

<u>Links:</u>

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