

Topic Test 1 (20 minutes)

Congruence and similarity - Higher

1	Which of the Circle the	[1 mark]				
		SSS	AAA	ASA	RHS	
2						Not drawn

accurately 10 cm 6 cm 12 cm

Work out the length x. [2 marks]

nswer cm

The edges of a cube are all doubled in size.

How many times bigger is the new volume? Circle the correct answer.

[1 mark]

2

4

6

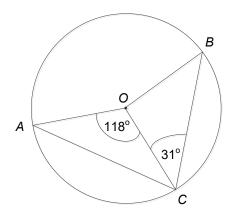
8

4	Explain why it is not possible to have a triangle with two obtuse angles.	[1 marks]
5	The solids A and B are similar.	
	12 cm 24 cm	
	The volume of solid A is 432 cm ³ .	
	Work out the volume of solid <i>B</i> .	
		[3 marks]
	Answer	cm ³

These two rectangles are similar.		
Area = 60 cm^2 6 cm	Area = 135 cm ²	h
Work out the length h .		[3 marks]
Answer _		cm

6

7 O is the centre of the circle.



Not drawn accurately

Prove that triangles OAC and OBC are congruent.	[4 marks]	

8 In the diagram, BQC is a straight line. CQ = 13 cm*AP* = 5 cm *BP* = 15 cm В 15 cm Not drawn accurately Q P 13 cm 5 cm C R Α Work out the area of rectangle APQR. [5 marks]

Answer

 cm^2