

Topic Test 1 Mark Scheme

Congruence and similarity - Higher

Q	Answer	Mark	Comments
1	AAA	B1	
2	$\frac{x}{6} = \frac{10}{18}$	M1	oe
	$3\frac{1}{3}$	A1	
3	8	B1	
4	Triangle angle = 180 Obtuse, both >90	B1	oe
5	$24 \div 12$ or 2	M1	
	their $2^3 \times 432$	M1dep	oe
	3456	A1	
6	$135 \div 60$ or 2.25	M1	
	$\sqrt{\text{their } 2.25} \times 6$	M1dep	
	9	A1	

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7	Alternative method 1		
	$OA = OB$ (radii)	B1	
	OC is common	B1	oe
	$COB = (180 - 2 \times 31)$	M1	
	118 and SAS	A1	
	Alternative method 2		
	OC is common	B1	Oe
	$OCA = (180 - 118) \div 2$	M1	
	$OCA = 31$	A1	
	118 and 31 and ASA	A1	

8	$13^2 - 5^2$ or 144	M1	
	12	M1dep	may be on diagram next to RC
	$\frac{5}{12} = \frac{15}{PQ}$	M1dep	oe
	36	A1	may be on diagram next to PQ
	180	A1ft	ft their 36