

Topic Test 1 Mark Scheme

Congruence and similarity - Foundation

Q	Answer	Mark	Comments
1(a)	$(10 \times 1.5 =) 15$	B1	
	$(18 \times 1.5 =) 27$	B1	
1(b)	$7.5 \div 10$ or 0.75	M1	
	13.5	A1	
2	$5.6 \div 4.2 = (1.333\dots)$	M1	oe
	$1.333\dots \times 2.4 = 3.2$ (cm)	A1	
	$4.8 \div 1.333\dots = 3.6$ (cm)	A1	
3(a)	$\angle BAX = \angle DCX$ or $\angle ABX = \angle CDX$ Alternate angles	B1	
	$\angle AXB = \angle DXC$ Vertically opposite angles	B1	
	Triangles ABX and DCX are similar as their corresponding angles are equal	B1	
3(b)	$10 \div 4 = (2.5)$	M1	
	$2.5 \times 5 = 12.5$ (cm)	A1	

4	$180^\circ - 65^\circ - 48^\circ = 67^\circ$	B1	
	Both triangles have the same three angles so congruent or similar.	B1	oe
	4.2 cms is opposite 48° in one and 65° in the other so not congruent, hence similar	B1	