

Topic Test 1 Mark Scheme

Pythagoras' Theorem - Foundation

Q	Answer	Mark	Comments
1	$c = \sqrt{a + b}$	B1	
2	$\sqrt{22^2 - 15^2}$	M1	
	[16, 16.1]	A1	
3	$\sqrt{11^2 + 18^2}$	M1	
	[21, 21.1]	A1	
4	$\sqrt{9^2 + 40^2}$	M1	
	41	A1	
	90	B1ft	ft their hypotenuse if M awarded
5	$\sqrt{2.8^2 + 1.2^2}$	M1	
	[3, 3.05]	A1	
	[0.95, 1.0]	A1	ft 4 – their hypotenuse if M awarded
6	$330 \div 60 \times 2$	M1	
	11	A1	
	$\sqrt{60^2 + \text{their } 11^2}$	M1	
	61	A1ft	ft their 11 if both Ms awarded

Q	Answer	Mark	Comments
7	$\sqrt{10^2 - 6^2}$	M1	
	8	A1	
	(side of square =) $(16 + \text{their } 8) \div 4$ or 6	M1	
	Area square = their 6^2 or 36 or area triangle = $0.5 \times \text{their } 8 \times 6$ or 24	M1	
	$24 \div 2 = 12$ $24 + 12 = 36$	A1	oe