



Q	Answer	Marks
1	a) PR b) $5^2 + 12^2 = 25 + 144 = 169$ and $13^2 = 169$	2
2	10 cm	2
3	11.4 cm	2
4	7.5 cm	2
5	a) 15 cm b) 9.7 cm	3
6	10.8 cm	2
7	a) 10 b) 13	3
8	$10^2 + 24^2 = 100 + 576 = 676 = 26^2$, so by the converse of Pythagoras' theorem the triangle is right-angled	3
9	45.3 m	3
10	48 cm	4
11	a) 12 cm b) 60 cm^2	4
12	£156	5
EXTENSION QUESTIONS		
13	a) hypotenuse AC, opposite BC, adjacent AB b) $\sin \theta = 5/13$, $\cos \theta = 12/13$, $\tan \theta = 5/12$	4
14	a) 9.64 cm b) 16.4 cm c) 11.2 cm	4
15	a) 35.7° b) 50.0° c) 61.4°	4
16	a) 0.626 m b) 4.46 m c) No: $0.626 \div 4.46 \times 12 = 1.69 \text{ m}$, more than 1 m	4
17	a) 15.6 m b) 185 m	4
18	7 cm	3
19	16.0 cm	3
20	10.1 cm	4

Full worked solutions, written out by hand, are on the solutions sheet for this topic.