Answers and mark guide

Q	Answer	Working	Marks
1	**8.04 cm**	Use sin 47° = opp/hyp: x = 8.04	3
2	**5.79 cm**	Use tan 44° = opp/adj: x = 5.79	3
3	**6.84 cm**	Use cos 43° = adj/hyp: x = 6.84	3
4	**8.49 cm**	Use sin 45° = opp/hyp: x = 8.49	3
5	**3.90 cm**	Use tan 26° = opp/adj: x = 3.90	3
6	**9.00 cm**	Use tan 48° = opp/adj: x = 9.00	4
7	**7.76 cm**	Use cos 61° = adj/hyp: x = 7.76	4
8	**19.8 cm**	Use sin 27° = opp/hyp: x = 19.8	4
9	**2.55 cm**	Use tan 70° = opp/adj: x = 2.55	4
10	**13.0 cm**	Use cos 22° = adj/hyp: x = 13.0	4
11	**30.0°**	Use inverse sin: x = $\sin^{-1}$(ratio) = 30.0°	4
12	**70.5°**	Use inverse cos: x = $\cos^{-1}$(ratio) = 70.5°	4
13	**49.4°**	Use inverse tan: x = $\tan^{-1}$(ratio) = 49.4°	4
14	**68.2°**	Use inverse sin: x = $\sin^{-1}$(ratio) = 68.2°	4
15	**37.9°**	Use inverse cos: x = $\cos^{-1}$(ratio) = 37.9°	4
16	**59.0°**	sin x = 6/7	4
17	**31.2 m**	tan 33° = h/48	4
18	**7.79 cm**	Half the base = 4.5; tan 60° = h/4.5	5
19	**39.8 km**	North = 52 × cos 40°	5
20	**14.5 m**	tan 36° = height/20	4

My score: _____ / 77 Questions 1–15 = 55 marks (Foundation focus)