Answers and mark guide

Q	Answer	Working	Marks
1	**x = 7**	Use inverse operations on both sides.	2
2	**x = 12**	Use inverse operations on both sides.	2
3	**x = 30**	Use inverse operations on both sides.	2
4	**x = 3**	Use inverse operations on both sides.	2
5	**x = 2**	Use inverse operations on both sides.	2
6	**x = 9**	4x = 36, so x = 9	3
7	**x = 7**	2x = 14, so x = 7	3
8	**x = 8**	6x = 48, so x = 8	3
9	**x = 2**	5x = 10, so x = 2	3
10	**x = 5**	6x = 30, so x = 5	3
11	**x = 12**	2x + 12 = 1x + 24; 1x = 12	4
12	**x = 3**	4x + 16 = 2x + 22; 2x = 6	4
13	**x = 7**	6x + 18 = 2x + 46; 4x = 28	4
14	**x = 8**	6x + 12 = 2x + 44; 4x = 32	4
15	**x = 9**	2x + 6 = 1x + 15; 1x = 9	4
16	**x = 54**	Multiply by 6: 3x + 2x = 270	4
17	**x = 7**	2(4x + 1 + x + 2) = 76; 5x + 3 = 38	5
18	**x = 6**	Cross-multiply: 5(2x + 2) = 5(x + 8)	5
19	**10**	6x − 9 = x + 41; 5x = 50	5
20	**x = 8; longest side 22 cm**	6x + 6 = 54, so x = 8	5

My score: _____ / 69 Questions 1–15 = 45 marks (Foundation focus)