Answers and mark guide

Q	Answer	Working	Marks
1	**(2x + 1)(3x − 5)**	Find two numbers that multiply to ac and add to b; split the middle term; factorise in pairs.	4
2	**(5x − 2)(x − 2)**	Find two numbers that multiply to ac and add to b; split the middle term; factorise in pairs.	4
3	**(4x − 3)(x − 1)**	Find two numbers that multiply to ac and add to b; split the middle term; factorise in pairs.	4
4	**(2x + 5)(x + 2)**	Find two numbers that multiply to ac and add to b; split the middle term; factorise in pairs.	4
5	**(4x + 5)(3x − 4)**	Find two numbers that multiply to ac and add to b; split the middle term; factorise in pairs.	4
6	**(6x + 7)(6x − 7)**	Difference of two squares.	3
7	**(4x + 1)(x − 6)**	ac method	4
8	**2(4x − 5)(3x − 2)**	Take out the common factor 2 first.	5
9	**$(2x + 4)^2$**	Perfect square.	4
10	**$(4x − 4)^2$**	Perfect square.	4
11	**x = −1/5 or x = 5**	Factorise: (5x + 1)(x − 5) = 0	5
12	**(2x + 1)(x − 1)**	ac method	4
13	**3(3x − 5)(x + 3)**	Common factor 3 first.	5
14	**(4x + 1)(x + 3); x = −1/4 or −3**	Factorise then set each bracket to 0.	5
15	**(4x − 3)(3x − 4)**	ac method	4
16	**2x + 5**	Factorise the numerator and cancel.	5
17	**x = −4.04, x = 0.643**	Use the quadratic formula.	5
18	**(x − 3) cm**	Area = length × width; factorise.	5
19	**(2x + 3y)(2x − 3y)**	Difference of two squares.	3
20	**(5x − 1)(x − 1); roots 1/5 and 1**	Set each bracket to 0.	5

My score: _____ / 86 Questions 1–15 = 63 marks (Foundation focus)