Answers and mark guide

Q	Answer	Working	Marks
1	**x > 6**	Treat it like an equation.	2
2	**x > 6**	Treat it like an equation.	2
3	**x ≥ 7**	Treat it like an equation.	2
4	**x ≥ 45**	Treat it like an equation.	2
5	**x > 3**	Treat it like an equation.	2
6	**x > 3**	Add 8 to both sides, then divide by 3.	3
7	**x ≥ 8**	Add 6 to both sides, then divide by 5.	3
8	**x ≥ 2**	Add 7 to both sides, then divide by 6.	3
9	**x ≥ 2**	Add 6 to both sides, then divide by 2.	3
10	**x ≤ 9**	Add 9 to both sides, then divide by 6.	3
11	**x > 7**	Dividing by a negative number reverses the inequality sign.	3
12	**0, 1, 2, 3, 4, 5, 6**	x is greater than the lower value (not included) and at most the upper value.	3
13	**x ≤ 9**	Subtract 5, then divide by −2 and reverse the sign.	3
14	**x > 2**	2x > 4	4
15	**x ≤ 2**	Divide both sides by 3, then subtract 2.	3
16	**−2 < x ≤ 3; integers −1, 0, 1, 2, 3**	Subtract 1: −6 < 3x ≤ 9, then divide by 3.	5
17	**x > 7**	4x − 8 > 2x + 6; 2x > 14	4
18	**1, 2, 3, 4**	Subtract 1: 1 ≤ 2n < 10; divide by 2: 0.5 ≤ n < 5	5
19	**x > 2; smallest integer 3**	−3x < −6; divide by −3 and reverse the sign.	5
20	**x ≤ 11**	Multiply by 6: 3(x+3) ≥ 2(2x−1); 3x + 9 ≥ 4x − 2; x ≤ 11	5

My score: _____ / **65** Questions 1–15 = 41 marks (Foundation focus)