Answers and mark guide

Q	Answer	Working	Marks
1	**5.05 ≤ x < 5.15**	Half of 0.1 is 0.05.	3
2	**5.95 ≤ x < 6.05**	Half of 0.1 is 0.05.	3
3	**2.25 ≤ x < 2.35**	Half of 0.1 is 0.05.	3
4	**25 and 35**	Half of 10 is 5.	3
5	**550 ≤ n < 650**	Half of 100 is 50.	3
6	**16.00**	6.75 + 9.25	4
7	**11.70**	2.45 + 9.25	4
8	**4.10**	Upper a − lower b = 9.05 − 4.95	4
9	**27.94**	7.45 × 3.75	4
10	**1.34**	Upper a ÷ lower b = 7.15 ÷ 5.35	4
11	**29.75 cm²**	8.5 × 3.5	5
12	**32 cm**	2 × (8.5 + 7.5)	5
13	**8.74 m/s**	Upper distance ÷ lower time = 100.5 ÷ 11.5	5
14	**3.62 g/cm³**	Lower mass ÷ upper volume = 235 ÷ 65	5
15	**3.45 ≤ x < 3.55; 6.9 ≤ 2x < 7.1**	Multiply each bound by 2.	5
16	**Shown**	Upper bound of pencil = 14.5 cm; lower bound of case = 15.15 cm; 14.5 < 15.15	6
17	**1.95**	Upper bound: largest numerator ÷ smallest denominator. Numerator max = 11.1; denominator min = 8.35 − 2.65 = 5.70	6
18	**7.11 cm**	Upper bound of area = 50.5 cm²; side = √50.5	6
19	**13.3 km per litre**	Upper distance ÷ lower fuel = 525 ÷ 39.5	6
20	**1490 ≤ m < 1510 g**	200 × 7.45 to 200 × 7.55	5

My score: _____ / 89 Questions 1–15 = 60 marks (Foundation focus)