# Answers and mark guide

| Q | Answer | Working | Marks |
|---|---|---|---|
| 1 | **6.5 ≤ x < 7.5** | Go half a unit either side. | 2 |
| 2 | **34.5 ≤ x < 35.5** | Go half a unit either side. | 2 |
| 3 | **37.5 ≤ x < 38.5** | Go half a unit either side. | 2 |
| 4 | **49.5 ≤ x < 50.5** | Go half a unit either side. | 2 |
| 5 | **18.5 ≤ x < 19.5** | Go half a unit either side. | 2 |
| 6 | **5.85 ≤ x < 5.95** | Half of 0.1 is 0.05. | 3 |
| 7 | **2.55 ≤ x < 2.65** | Half of 0.1 is 0.05. | 3 |
| 8 | **4.25 ≤ x < 4.35** | Half of 0.1 is 0.05. | 3 |
| 9 | **15 ≤ x < 25** | Half of 10 is 5. | 3 |
| 10 | **3.055 ≤ x < 3.065** | Half of 0.01 is 0.005. | 3 |
| 11 | **850 ≤ x < 950** | Half of 100 is 50. | 3 |
| 12 | **350 ≤ x < 450** | Half of 100 is 50. | 3 |
| 13 | **750 ≤ x < 850** | Half of 100 is 50. | 3 |
| 14 | **335 ≤ x < 345** | The second significant figure is the tens column. | 4 |
| 15 | **5.6 ≤ x < 5.7** | Truncating cuts digits off without rounding. | 4 |
| 16 | **0.0465 ≤ x < 0.0475** | Second significant figure is in the thousandths. | 4 |
| 17 | **5.95 ≤ y < 6.05; 11.9 ≤ 2y < 12.1** | Multiply each bound by 2. | 5 |
| 18 | **220 g** | Upper bound is 4 × the upper bound of one mass. | 4 |
| 19 | **12, 13, 14, 15** | n is greater than the lower value and at most the upper. | 3 |
| 20 | **11.6 ≤ x + y < 11.8** | 8.45 + 3.15 = 11.6 and 8.55 + 3.25 = 11.8 | 5 |

**My score:** _____ / **63** Questions 1–15 = 42 marks (Foundation focus)