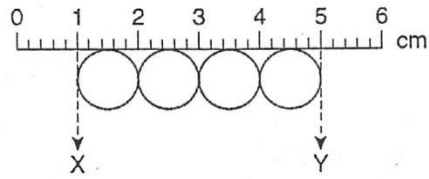


- 2 A student attempts to measure the diameter of a steel ball by using a metre rule to measure four similar balls in a row.



The student estimates the positions on the scale to be as follows.

X: (1.0 ± 0.2) cm

Y: (5.0 ± 0.2) cm

What is the diameter of a steel ball together with its associated uncertainty?

- A (1.0 ± 0.1) cm
- B (1.0 ± 0.2) cm
- C (1.0 ± 0.24) cm
- D (1.0 ± 0.4) cm