

- 5** A micrometer screw gauge is used to measure the diameter of a small uniform steel sphere. The micrometer reading is $5.00 \text{ mm} \pm 0.01 \text{ mm}$.

What will be the percentage uncertainty in a calculation of the volume of the sphere, using these values?

- A** 0.2% **B** 0.4% **C** 0.6% **D** 1.2%

- 6** One object moves directly from P to R