

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

What is the percentage uncertainty in the calculated volume of the sphere, using these values?

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