

- 6** 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%