

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