1 In an experiment to determine the density of a sphere, the following measurements are made.

$$\text{mass} = (80 \pm 2)\,\text{g}$$

$$\text{diameter} = (4.0 \pm 0.1)\,\text{cm}$$

How should the value of density of the sphere be expressed?

A $(2.4 \pm 0.1)\,\text{g cm}^{-3}$

B $(2.4 \pm 0.2)\,\text{g cm}^{-3}$

C $(2.4 \pm 0.4)\,\text{g cm}^{-3}$

D $(2 \pm 2)\,\text{g cm}^{-3}$