

- 2** A micrometer screw gauge is used to measure the diameters of two cylinders. The measurements of the diameters, with their actual uncertainties, are given as follows:

$$\text{diameter of first cylinder} = (12.78 \pm 0.02) \text{ mm}$$

$$\text{diameter of second cylinder} = (16.24 \pm 0.03) \text{ mm}$$

What is the percentage uncertainty in the difference of the two diameters?

A 0.29%

B 0.58%

C 0.87%

D 1.4%

