

3 A micrometer is used to measure the diameters of two cylinders.

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

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

The difference in the diameters is calculated.

What is the percentage uncertainty in this difference?

A 0.29

B 0.58

C 0.87

D 1.4