

- 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:

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

diameter of second cylinder =  $(16.24 \pm 0.03)$  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%

