5 A double-slit interference experiment is used to determine the wavelength of light from a monochromatic source.

The following measurements are used.

slit separation $a = 0.50 \pm 0.02\,\text{mm}$

fringe separation $x = 1.7 \pm 0.1\,\text{mm}$

distance between slits and screen $D = 2.000 \pm 0.002\,\text{m}$

What is the percentage uncertainty in the calculated wavelength?

A 0.1% **B** 1% **C** 6% **D** 10%