5 A student measures the length l and the period T of oscillation of a simple pendulum. He then uses the equation shown to calculate the acceleration of free fall g.

$$T = 2\pi \sqrt{\frac{l}{g}}$$

His measurements are shown.

l	$(87.3 \pm 0.2)\,cm$
T	$(1.9 \pm 0.05)\,s$

What is the percentage uncertainty in his calculated value of g?

A 2.4%   **B** 2.9%   **C** 5.5%   **D** 7.2%