4	Αw	A wave has a frequency of 5 GHz.	
	What is the period of the wave?		
	Α	20 000 μs	
	В	20 ns	
	С	2 ns	
	D	200 ps	

In an experiment to determine the acceleration of free fall g, the period of oscillation T and length l of a simple pendulum were measured. The uncertainty in the measurement of l is estimated to be 4%, and the uncertainty in the measurement of T is estimated to be 1%.

The value of g is determined using the formula

$$g=\frac{4\pi^2l}{T^2}.$$

What is the uncertainty in the calculated value for g?

**A** 2% **B** 3% **C** 5% **D** 6%

Space for working