2   Three quantities a, b and c are related by the equation

$$a = b^2c$$

a and b have fractional uncertainties $\frac{\Delta a}{a}$ and $\frac{\Delta b}{b}$ respectively.

What is the fractional uncertainty of c?

A $\quad \frac{\Delta a}{a} + \frac{\Delta b}{b}$ **B** $\quad \frac{\Delta a}{a} - \frac{\Delta b}{b}$ **C** $\quad \frac{\Delta a}{a} + 2\frac{\Delta b}{b}$ **D** $\quad \frac{\Delta a}{a} - 2\frac{\Delta b}{b}$