2   The value of quantity X has a percentage uncertainty of 2%.

The value of quantity Y has a percentage uncertainty of 4%.

The value of a quantity W is calculated from the values of X and Y.

The value of W has a percentage uncertainty of 8%.

What could be the relationship between W, X and Y?

A $W = XY$ **B** $W = 2XY$ **C** $W = \dfrac{X}{Y^2}$ **D** $W = \dfrac{Y}{X^2}$