

**5** The power loss  $P$  in a resistor is calculated using the formula  $P = \frac{V^2}{R}$ .

The percentage uncertainty in the potential difference  $V$  is 3% and the percentage uncertainty in the resistance  $R$  is 2%.

What is the percentage uncertainty in  $P$ ?

**A** 4%

**B** 7%

**C** 8%

**D** 11%