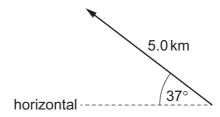
- Which pair of units are **not** the same when expressed in SI base units?
 - $\mathbf{A} \quad \text{m s}^{-2} \text{ and N kg}^{-1}$
 - **B** Ns and $kg m s^{-1}$
 - \mathbf{C} Pa and N m⁻²
 - \mathbf{D} V m⁻² and N C⁻¹
- 2 What is the vertical component of this displacement vector?



- **A** 3.0 km
- 3.8 km
- 4.0 km
- 5.0 km
- The units of specific heat capacity are J kg⁻¹ K⁻¹. 3

What are the SI base units of specific heat capacity?

- **A** $m s^{-2} K^{-1}$
- **B** $m s^{-1} K^{-1}$
- $C m^2 s^{-2} K^{-1} D m^2 s^{-1} K^{-1}$
- A quantity *y* is to be determined from the equation shown.

$$y = \frac{px}{q^2}$$

The percentage uncertainties in p, x and q are shown.

	percentage uncertainty
р	6%
х	2%
q	4%

What is the percentage uncertainty in *y*?

- **A** 0.5%
- 0.75%
- 12%
- 16%