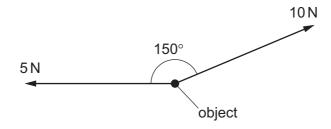
- 1 What is a reasonable estimate of the volume of an adult person?
 - **A** $0.10\,\mathrm{m}^3$
- **B** $0.50\,\mathrm{m}^3$
- $C 1.0 \,\mathrm{m}^3$
- **D** $2.0\,\mathrm{m}^3$
- 2 Which combination of units could be used for expressing the power dissipated in a resistor?
 - **A** newton per second $(N s^{-1})$
 - **B** newton second (Ns)
 - **C** newton metre (N m)
 - **D** newton metre per second $(N m s^{-1})$
- **3** A force of 10 N and a force of 5 N act on an object.



The angle between the forces is 150°.

The resultant force on the object can be resolved into a pair of perpendicular components.

Which row shows numerical expressions for a possible pair of perpendicular components?

	force component/N	force component/N
Α	10 cos 30° – 5	10 cos 30°
В	10 sin 30° – 5	10 cos 30°
С	10 – 5 cos 30°	$5 \sin 30^{\circ}$
D	10 – 5 sin 30°	5 cos 30°