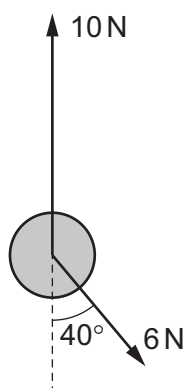


- 1 What is **not** a reasonable estimate of the physical property indicated?
- A $2 \times 10^3 \text{ W}$ for the power dissipated by the heating element of an electric kettle
 - B $4 \times 10^2 \text{ m}^3$ for the volume of water in a swimming pool
 - C $5 \times 10^5 \text{ N s}$ for the momentum of a lorry moving along a road
 - D $6 \times 10^2 \text{ N}$ for the weight of a fully grown racehorse
- 2 Which quantity could have units of N m V^{-1} ?
- A acceleration
 - B charge
 - C current
 - D resistance
- 3 An object is acted upon by two forces, 10 N in the vertical direction and 6 N at 40° to the vertical, as shown.



What is the resultant force acting on the object?

