

**13** What is the condition for an object to be in equilibrium?

- A** The object's velocity and the resultant torque on it must both be zero.
- B** The object's velocity must be zero.
- C** The resultant force and the resultant torque on the object must both be zero.
- D** The resultant force on the object must be zero.

**14** A uniform solid cuboid of concrete of dimensions  $0.50\text{ m} \times 1.20\text{ m} \times 0.40\text{ m}$  and weight  $4000\text{ N}$