

**9** A sphere moves vertically downwards at terminal (constant) velocity in a liquid.

Which statement about the magnitude of the upthrust acting on the sphere is correct?

- A** It is proportional to the acceleration of free fall.
- B** It is equal to the weight of the sphere.
- C** It is proportional to the density of the sphere.
- D** It is proportional to the square of the radius of the sphere.