

- 9 In an experiment, a metal ball is dropped into a viscous liquid. The terminal velocity of the ball in the liquid is measured.

The experiment is repeated four times. For each repeat, a change is made to one of the following.

- 1 the density of the metal of the ball
- 2 the height from which the ball is dropped
- 3 the density of the liquid
- 4 the depth of the liquid

Which two changes separately affect the terminal velocity of the ball in the liquid?

- A** 1 and 2 **B** 1 and 3 **C** 2 and 4 **D** 3 and 4

- 10 The diagram shows a metal ball of mass m falling through a viscous liquid.