

- 12** Forces of 3 N, 4 N and 5 N act at one point on an object. The angles at which the forces act can vary.

What is the value of the **minimum** resultant force of these forces?

- A** 0
- B** between 0 and 2 N
- C** 2 N
- D** between 2 N and 4 N

- 13** An object, immersed in a liquid in a tank, experiences an upthrust.

What is the physical reason for this upthrust?

- A** The density of the body differs from that of the liquid.
- B** The density of the liquid increases with depth.
- C** The pressure in the liquid increases with depth.
- D** The value of  $g$  in the liquid increases with depth.

**Space for working**