

**17** A concrete cube of side 0.50 m and uniform density  $2.0 \times 10^3 \text{ kg m}^{-3}$  is lifted 3.0 m vertically by a crane.

What is the change in potential energy of the cube?

**A** 0.75 kJ

**B** 7.4 kJ

**C** 29 kJ

**D** 470 kJ

**18** The hydrostatic pressure  $p$  at a depth  $h$  in a liquid of density  $\rho$  is given by the formula  $p = h\rho g$ .