

- 11** Some small solid cubes each have mass  $1.0\text{ kg}$  and sides of length  $5.0\text{ cm}$ . These small cubes are stacked together to form a large solid cube with sides of length  $2.0\text{ m}$ .

What is the weight of the large cube?

- A**  $0.39\text{ kN}$       **B**  $0.39\text{ MN}$       **C**  $0.63\text{ MN}$       **D**  $0.63\text{ GN}$

- 12** A solid cube of side  $1.0\text{ m}$  is made of a material of density  $2000\text{ kg m}^{-3}$ . The weight of the cube is