

- 13** Two solid cubes X and Y are made of material of the same density. Cube X has twice the mass of cube Y.

Cube X has sides of length x . Cube Y has sides of length y .

What is the ratio $\frac{x}{y}$?

- A** 1.26 **B** 1.41 **C** 2.00 **D** 8.00

- 14** A ball is thrown vertically upwards with an initial speed of 20.0 m s^{-1} . It reaches a maximum height of 20.4 m .