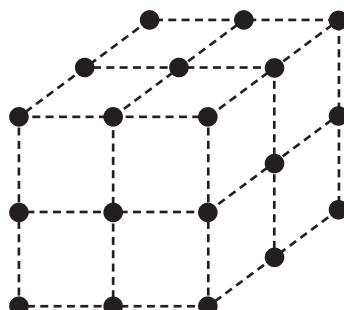


21 The diagram shows the arrangement of atoms in a particular crystal.



Each atom is at the corner of a cube.

The mass of each atom is 3.5×10^{-25} kg. The density of the crystal is 9.2×10^3 kg m⁻³.

What is the shortest distance between the centres of two adjacent atoms?

- A 3.8×10^{-29} m
- B 6.2×10^{-15} m
- C 3.4×10^{-10} m
- D 3.0×10^{-9} m