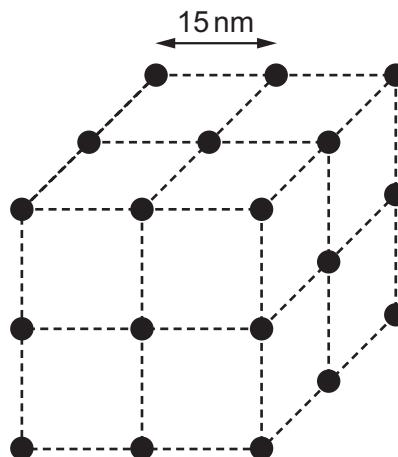


- 19** The diagram shows the atoms of a substance with the atoms at the corners of a cube. The average separation of the atoms at a particular temperature is 15 nm.



When the temperature changes so that the average separation becomes 17 nm, by which factor will the density of the substance change?

- A** 0.61 **B** 0.69 **C** 0.78 **D** 0.88

Space for working