

- 6** A 50 g piece of ice is added to a cup containing 250 cm^3 of water.

Given that the density of water and ice is 1000 kg m^{-3} and 900 kg m^{-3} respectively, after all the ice has melted, the volume of water in the cup will

- A** remain unchanged.
- B** increase by 17 %.
- C** increase by 20 %.
- D** increase by 22 %.