13 A volume V of water in a perfectly insulating container is at a temperature of 60 °C. A second volume $\frac{V}{4}$ of water in a separate perfectly insulating container is at a temperature of 20 °C.

The second volume of water is added to the first and an equilibrium temperature is reached.

Assume that the density of water does not vary between 20 °C and 60 °C.

What is this equilibrium temperature?

A 28 °C **B** 30 °C **C** 50 °C **D** 52 °C