

**6** The water surface in a deep well is 78.0 m below the top of the well. A person at the top of the well drops a heavy stone down the well.

Air resistance is negligible. The speed of sound in the air is  $330 \text{ m s}^{-1}$ .

What is the time interval between the person dropping the stone and hearing it hitting the water?

**A** 3.75 s

**B** 3.99 s

**C** 4.19 s

**D** 4.22 s