

**31** A hollow tube is closed at one end and open at the other.

A stationary sound wave of the lowest possible frequency, 820 Hz, is produced in the tube.

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

What is the length of the tube?

**A** 10 cm

**B** 20 cm

**C** 40 cm

**D** 160 cm

**32** Which of the following is closest to the density of water?