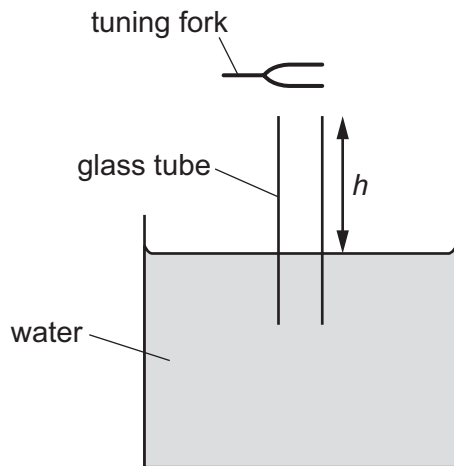


- 24** A long glass tube is almost completely immersed in a large tank of water. A tuning fork is struck and held just above the open end of the tube as it is slowly raised.

A louder sound is first heard when the height  $h$  of the end of the tube above the water is 18.8 cm. A louder sound is next heard when  $h$  is 56.4 cm. The speed of sound in air is  $330 \text{ m s}^{-1}$ .



What is the frequency of the sound produced by the tuning fork?

- A** 220 Hz      **B** 440 Hz      **C** 660 Hz      **D** 880 Hz