

16 A vibrating tuning fork of frequency 660 Hz is placed at one end of an open tube of length 2.00 m causing a stationary wave in the tube. The speed of sound in the air in the tube is 330 ms^{-1} .

The tube is extended until the next stationary wave is set up in the tube.

What is the new length of the tube?

A 2.25 m

B 2.50 m

C 3.00 m

D

4.00 m