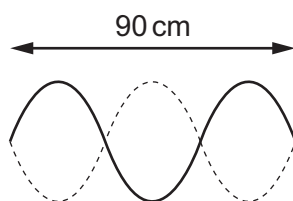


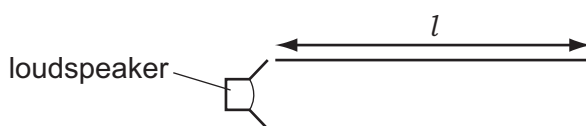
- 28 The diagram shows a stationary wave on a string at two instants of maximum vertical displacement.



The frequency of the wave is 12 Hz.

What is the speed of the wave?

- A  $3.6 \text{ ms}^{-1}$       B  $7.2 \text{ ms}^{-1}$       C  $360 \text{ ms}^{-1}$       D  $720 \text{ ms}^{-1}$
- 29 A loudspeaker emitting sound of frequency  $f$  is placed at the open end of a pipe of length  $l$  which is closed at the other end. A standing wave is set up in the pipe.



A series of pipes are then set up with either one or two loudspeakers of frequency  $f$ . The pairs of loudspeakers vibrate in phase with each other.

Which pipe contains a standing wave?

