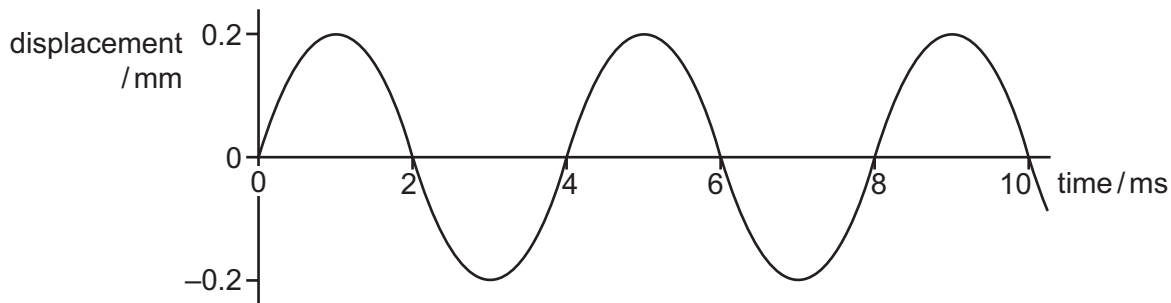


- 24** A sound wave moves with a speed of 320 m s^{-1} through air. The variation with time of the displacement of an air particle due to this wave is shown in the graph.



Which statement about the sound wave is correct?

- A** The frequency of the wave is 500 Hz.
- B** The graph shows that sound is a transverse wave.
- C** The intensity of the wave will be doubled if its amplitude is increased to 0.4 mm.
- D** The wavelength of the sound wave is 1.28 m.

- 25** A wave of frequency 15 Hz travels at 24 m s^{-1} through a medium