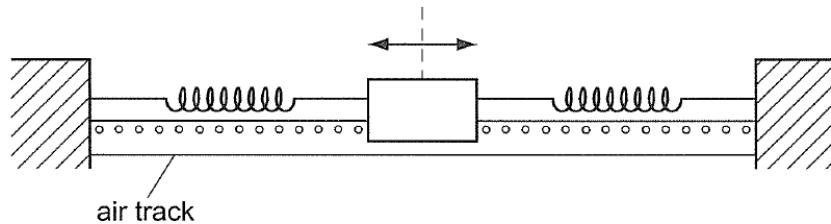


14

A linear air track vehicle held centrally on an air track by two springs makes small simple harmonic oscillations.



When its displacement from equilibrium is 20 mm, its speed is 30 mm s^{-1} .

When its displacement 30 mm, its speed is 20 mm s^{-1} .

What is its speed when its displacement is 25 mm?

| |

- A** 24 mm s^{-1}
- B** 25 mm s^{-1}
- C** 26 mm s^{-1}
- D** 29 mm s^{-1}

