

NUMERICAL QUESTIONS FROM SOUND – CLASS 8

1. A sound wave travels at 340 m/s. What is the distance covered in 4 seconds?
2. A boy shouts near a hill and hears an echo after 3 seconds. If the speed of sound is 330 m/s, find the distance of the hill.
3. The frequency of a sound wave is 200 Hz. If its wavelength is 1.5 m, find the speed of sound.
4. A sound wave of speed 340 m/s has a wavelength of 0.85 m. Find its frequency.
5. A drum vibrates 600 times in 3 seconds. Find its frequency.
6. A tuning fork produces sound of wavelength 0.68 m. If the speed of sound is 340 m/s, calculate the frequency.
7. A source emits sound at a frequency of 440 Hz. If the medium changes and speed becomes 352 m/s, find wavelength.
8. A person hears 45 vibrations in 5 seconds. What is the frequency?
9. A ship sends sound waves and receives an echo in 8 seconds. Speed in water is 1500 m/s. Find the depth of the sea.
10. A loudspeaker produces a sound of 250 Hz. If the wavelength in air is 1.2 m, find speed.