

6. A gamma ray is high-frequency light. Find the wavelength of a gamma ray with a frequency of 10^{22} Hz.

$$c = \lambda f, \text{ so } \lambda = \frac{c}{f} = \frac{3.00 \times 10^8 \text{ m/s}}{1 \times 10^{22} \text{ Hz}} = 3 \times 10^{-14} \text{ m or } 30 \text{ femtometers}$$

7. If the speed of a longitudinal sound wave is 340 m/s, and the frequency is 1000 Hz, what is the wavelength of the wave?

$$v = \lambda f, \text{ so } \lambda = \frac{v}{f} = \frac{340 \text{ m/s}}{1000 \text{ Hz}} = 0.34 \text{ m}$$

8. The Sears Building in Chicago sways back and forth at a frequency of about 0.1 Hz. What is its period of vibration?

$$P = \frac{1}{f} = \frac{1}{0.1 \text{ Hz}} = 10 \text{ sec}$$

9. If a train of freight cars, each 10 m long, rolls by you at the rate of 2 cars each second, what is the speed of the train?

Conceptually, 2 cars of 10 meters each pass by a given point in one second. Therefore, the speed must be $2 \times 10 = 20$ meters per second.

$$\text{Or, using a wave speed equation, } v = \lambda f = (10 \text{ m})(2 \text{ Hz}) = 20 \text{ m/s}$$

10. If a wave with wavelength 10 m has a frequency of 2 Hz, what is the wave speed?

$$v = \lambda f = (10 \text{ m})(2 \text{ Hz}) = 20 \text{ m/s}$$

11. If a water wave vibrates up and down two times each second and the distance between wave crests is 1.5 meters, find each of the following:

a) the frequency of the wave

Frequency is the number of vibrations or cycles per second. Since we are told that this wave vibrates up and down (one cycle) two times each second, the frequency is 2 Hz.

b) the wavelength of the wave

Wavelength is the distance between successive identical parts of a wave. Since we are told that the distance between successive crests is 1.5 meters, the wavelength is 1.5 meters.

c) the speed of the wave

$$v = \lambda f = (1.5 \text{ m})(2 \text{ Hz}) = 3 \text{ m/s}$$

12. Is it possible for one wave to cancel another wave so that the combined amplitude is zero? Explain your answer.

Yes, this phenomenon is called destructive interference. When the crest of one wave completely overlaps with the trough of another wave of identical amplitude, the crest of the first completely fills in the trough of the other, resulting in zero amplitude.

13. Is the Doppler effect an apparent change in speed or frequency of a wave, due to the motion of the source relative to the receiver?

The Doppler effect is an apparent change in frequency of a wave. While the wave source creates waves of a constant speed, the motion of either the source or the receiver causes a change in the frequency with which the waves reach the receiver.

Conceptual Physics Chapter 25

M Lipman



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