

Wave Problems:

1. How fast does a 500-hertz wave travel if its wavelength is 0.5 meters?
2. What is the speed of a 7050-hertz wave that has a wavelength of 0.257 m?
3. How fast is a 4.5-m wave traveling, if it has a frequency of 300 hertz?
4. Frequency is the number of waves that pass a certain point in one second. If 200 waves pass in 2 seconds, what is the frequency?
5. If 30 waves pass in 1 second, and each wave has a wavelength of 5 meters, what is the velocity of the wave?

6. How fast is a 60-Hz, 1.5-m wave traveling?
7. If the speed of a wave is 1500 meters per second, and its frequency is 200 Hz, what is its wavelength?
8. If the speed of a wave is 3000 m/s, and its wavelength is 1.5 m, what is its frequency?
9. What is the wavelength of a 4650 m/s wave with a frequency of 75 Hz?
10. If 400 waves pass a point in 1 second, and the waves are traveling at 40 m/s, what is the wavelength of each wave?