

Warm Up

1. The average wavelength in a series of ocean waves is 15.0 m. A wave crest arrives at the shore on average every 10 seconds, so the frequency is 0.100 Hz. What is the average speed of the waves?
2. The speed of sound in air is about 340 m/s. What is the wavelength of a sound wave with a frequency of 220 Hz (on a piano, the A below middle C)?