

4. Waves and Sound – Tutorial 4

- 4.1** A wave travels along a stretched horizontal rope. The vertical distance from crest to trough for this wave is 11 cm and the horizontal distance from crest to trough is 26 cm. What is (a) the wavelength and (b) the amplitude of this wave? *(5.2cm, 5.5cm)*
- 4.2** A surfer floating beyond the breakers notes 14 waves per minute passing her position. If the wavelength of these waves is 34 m, what is their speed? *(7.9m/s)*
- 4.3** The speed of surface waves in water decreases as the water becomes shallower. Suppose waves travel across the surface of a lake with a speed of 2.0 m/s and a wavelength of 1.5 m. When these waves move into a shallower part of the lake, their speed decreases to 1.6 m/s, though their frequency remains the same. Find the wavelength of the waves in the shallower water. *(1.2m)*
- 4.4** A tsunami traveling across deepwater can have a speed of 750 km/h and a wavelength of 310 km. What is the frequency of such a wave? *(6.7 × 10⁻⁷ Hz)*
- 4.5** A 4.5-Hz wave with an amplitude of 12 cm and a wavelength of 27 cm travels along a stretched horizontal string. (a) How far does a given peak on the wave travel in a time interval of 0.50 s? (b) How far does a knot on the string travel in the same time interval? (c) How would your answers to parts (a) and (b) change if the amplitude of the wave were halved? Explain. *(0.61m, 1.1m)*
- 4.6** The speed of a deepwater wave with a wavelength λ is given approximately by $v = \sqrt{g\lambda/2\pi}$. Find the speed and frequency of a deepwater wave with a wavelength of 4.5 m. *(2.65m/s, 0.591Hz)*
- 4.7** In shallow water of depth d the speed of waves is approximately $v = \sqrt{gd}$. Find the speed and frequency of a wave with wavelength 0.75 cm in water that is 2.6 cm deep. *(0.51m/s, 678Hz)*
- 4.8** Waves on a particular string travel with a speed of 16 m/s. By what factor should the tension in this string be changed to produce waves with a speed of 32 m/s? *(4)*
- 4.9** A brother and sister try to communicate with a string tied between two tin cans (**Figure 4.9**). If the string is 9.5 m long, has a mass of 32 g, and is pulled taut with a tension of 8.6 N, how much time does it take for a wave to travel from one end of the string to the other? *(0.39s)*



Figure 4.9

- 4.10** (a) Suppose the tension is increased in the previous problem. Does a wave take more, less, or the same time to travel from one end to the other? Calculate the time of travel for tensions of (b) 9.0 N and (c) 10.0 N. *(0.18s, 0.17s)*
- 4.11** A 7.3-m wire with a mass of 85 g is attached to the mast of a sailboat. If the wire is given a “thunk” at one end, it takes 0.94 s for the resulting wave to reach the other end. (a) What is the tension in the wire? (b) Would the tension found in part (a) be larger or smaller if the mass of the wire is greater than 85 g? (c) Calculate the tension for a 95-g wire. *(0.700N, 0.788N)*
- 4.12** Two steel guitar strings have the same length. String A has a diameter of 0.50 mm and is

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Lingjun Ying



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