

Practice Problems

15.1 Properties and Detection of Sound
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1. Find the wavelength in air at 20°C of an 18-Hz sound wave, which is one of the lowest frequencies that is detectable by the human ear.

$$\lambda = \frac{v}{f} = \frac{343 \text{ m/s}}{18 \text{ Hz}} = 19 \text{ m}$$

2. What is the wavelength of an 18-Hz sound wave in seawater at 25°C?

$$\lambda = \frac{v}{f} = \frac{1533 \text{ m/s}}{18 \text{ Hz}} = 85 \text{ m}$$

3. Find the frequency of a sound wave moving through iron at 25°C with a wavelength of 1.25 m.

$$f = \frac{v}{\lambda} = \frac{5130 \text{ m/s}}{1.25 \text{ m}} = 4.10 \times 10^3 \text{ Hz}$$

4. If you shout across a canyon and hear the echo 0.80 s later, how wide is the canyon?

$$v = \frac{d}{t}; t = \frac{1}{2}(0.80 \text{ s}) = 0.40 \text{ s}$$

$$\text{so } d = vt = (343 \text{ m/s})(0.40 \text{ s}) = 140 \text{ m}$$

5. A 2280-Hz sound wave has a wavelength of 0.655 m in an unknown medium. Identify the medium.

$$\lambda = \frac{v}{f}$$

$$\text{so } v = \lambda f = (0.655 \text{ m})(2280 \text{ Hz}) \\ = 1490 \text{ m/s}$$

This speed corresponds to water at 25°C.

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6. Repeat Example Problem 1, but with the car moving away from you. What frequency would you hear?

$$v_s = -24.6 \text{ m/s}$$

$$f_d = 524 \text{ Hz} \left(\frac{1}{1 - \frac{(-24.6 \text{ m/s})}{343 \text{ m/s}}} \right)$$

$$= 489 \text{ Hz}$$

7. You are in an auto traveling at 25.0 m/s toward a pole-mounted warning siren. If the siren's frequency is 365 Hz, what frequency do you hear? Use 343 m/s as the speed of sound.

$$v = 343 \text{ m/s}, f_s = 365 \text{ Hz}, v_s = 0,$$

$$v_d = -25.0 \text{ m/s}$$

$$f_d = f_s \left(\frac{v - v_d}{v - v_s} \right)$$

$$= (365 \text{ Hz}) \left(\frac{343 \text{ m/s} + 25.0 \text{ m/s}}{343 \text{ m/s}} \right)$$

$$= 392 \text{ Hz}$$

8. You are in an auto traveling at 55 mph (24.6 m/s). A second auto is moving toward you at the same speed. Its horn is sounding at 475 Hz. What frequency do you hear? Use 343 m/s as the speed of sound.

$$v = 343 \text{ m/s}, f_s = 475 \text{ Hz}, v_s = +24.6 \text{ m/s},$$

$$v_d = -24.6 \text{ m/s}$$

$$f_d = f_s \left(\frac{v - v_d}{v - v_s} \right)$$

$$= (475 \text{ Hz}) \left(\frac{343 \text{ m/s} + 24.6 \text{ m/s}}{343 \text{ m/s} - 24.6 \text{ m/s}} \right)$$

$$= 548 \text{ Hz}$$

9. A submarine is moving toward another submarine at 9.20 m/s. It emits a 3.50-MHz ultrasound. What frequency would the second sub, at rest, detect? The speed of sound in water is 1482 m/s.

$$v = 1482 \text{ m/s}, f_s = 3.50 \text{ MHz},$$

$$v_s = 9.20 \text{ m/s}, v_d = 0 \text{ m/s}$$

$$f_d = f_s \left(\frac{v - v_d}{v - v_s} \right)$$

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