

Wave Speed Equation Practice Problems

The formula we are going to practice today is the wave speed equation:

$$\text{wave speed} = \text{wavelength} \times \text{frequency}$$

$$v = \lambda f$$

Variables, units, and symbols:

Quantity Symbol	Quantity Term	Unit	Unit Symbol
v	wave speed	meters/second	m/s
λ	wavelength	meter	m
f	frequency	Hertz	Hz
T	Period	seconds	s

Remember:

frequency: number of complete waves passing a point in a given time

$$f = \frac{\text{number of cycles}}{\text{time}}$$

- If 10 waves pass in 1 second, the frequency is 10 Hz
- If 6 waves pass in 2 seconds, the frequency is 3 Hz

Sample Problems:

Sample Problem 1) A wave has frequency of 50-Hz and a wavelength of 10 m. What is the speed of the wave?

$$f = 50 \text{ Hz}$$

$$\lambda = 10 \text{ m}$$

$$v = ?$$

$$v = \lambda \cdot f = (10 \text{ m}) \cdot (50 \text{ Hz}) = 500 \frac{\text{m}}{\text{s}}$$

Sample Problem 2) A wave has frequency of 5 Hz and a speed of 25 m/s. What is the wavelength of the wave?

$$f = 5 \text{ Hz}$$

$$v = 25 \frac{\text{m}}{\text{s}}$$

$$\lambda = ?$$

$$v = \lambda \cdot f \Rightarrow \lambda = \frac{v}{f} = \frac{25 \text{ m/s}}{5 \text{ Hz}} = 5 \text{ m}$$

Sample Problem 3) A wave has wavelength of 10 m and a speed of 340 m/s. What is the frequency of the wave?

$$\lambda = 10 \text{ m}$$

$$v = 340 \frac{\text{m}}{\text{s}}$$

$$f = ?$$

$$v = \lambda \cdot f \Rightarrow f = \frac{v}{\lambda} = \frac{340 \text{ m/s}}{10 \text{ m}} = 34 \text{ Hz}$$

Wave Speed Practice Problems Answer Key

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Wave Speed Practice Problems Answer Key:

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