Speed Frequency and Wavelength Worksheet 1

This worksheet is designed to give you some practice using the general wave equation: $v=\lambda f$. You'll be expected to use this equation correctly or the upcoming chapter test, sound lab and TAKS test.

1. What is the v if λ = 8 m and f = 20 Hz?
2. What is the λ if v = 50 m/s and f = 25 Hz?
3. What is the f if v = 50 m/s and λ = 10 m?
4. What is the v if λ = 1 m and f = 345 Hz?
5. What is the λ if v = 100 m/s and f = 3 Hz?
6. What is the f if v = 120 m/s and λ = 3 m?
7. What is the v if λ = 3 m and f = 10 Hz?
8. What is the λ if v = 345 m/s and f = 790 Hz?
9. What is the f if v = 345 m/s and λ = .25 m?

Green light has a wavelength of 0.00000052 meters. The speed of light is 300,000,000 m/s. Calculate the frequency of green light waves with this wavelength.

Equation	Rearranged Equation	Work	Final Answer

. What is the wavelength of a sound wave with a frequency of 220 Hz if its speed is 340 m/s?

Equation	Rearranged Equation	Work	Final Answer