

Wave Calculations  
Worksheet

**Velocity = Wavelength x Frequency**  
so.... **Wavelength = Velocity/Frequency**  
and .... **Frequency = Velocity/Wavelength**

*Units: Velocity (m/s), Wavelength (m), Frequency (hertz)*

*For the given values, find the missing value for the velocity, wavelength or frequency of the waves. Show your work on the back of this page or next to the problems.*

1. Velocity = \_\_\_\_\_  
Wavelength = .5 m  
Frequency = 150 hertz
2. Velocity = 600 m/s  
Wavelength = 2.0 m  
Frequency = \_\_\_\_\_
3. Velocity = 320 m/s  
Wavelength = 80 m  
Frequency = \_\_\_\_\_
4. Velocity = \_\_\_\_\_  
Wavelength = 1.2 m  
Frequency = 210 hertz
5. Velocity = \_\_\_\_\_  
Wavelength = 3.0 m  
Frequency = 120 hertz
6. Velocity = 12 m/s  
Wavelength = \_\_\_\_\_  
Frequency = 600 hertz
7. Velocity = 190 m/s  
Wavelength = 1.1875 m  
Frequency = \_\_\_\_\_
8. Velocity = 110 m/s  
Wavelength = \_\_\_\_\_  
Frequency = 300 hertz
9. Velocity = \_\_\_\_\_  
Wavelength = 4.2 m  
Frequency = 70 hertz
10. Velocity = 65 m/s  
Wavelength = 6.5 m  
Frequency = \_\_\_\_\_