WAVE	VELOCITY	CALCUL	ATIONS
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Name _____

Velocity = Wavelength x Frequency

Solve the following problems.

 A tuning fork has a frequency of 280 hertz, and the wavelength of the sound produced is 1.5 meters. Calculate the velocity of the wave.

A wave is moving toward shore with a velocity of 5.0 m/s. If its frequency is 2.5 hertz, what is its wavelength?

3. The speed of light is 3.0×10^8 m/s. Red light has a wavelength of 7×10^{-7} m. What is its frequency?

4. The frequency of violet light is 7.5 x 10¹⁴ hertz. What is its wavelength?

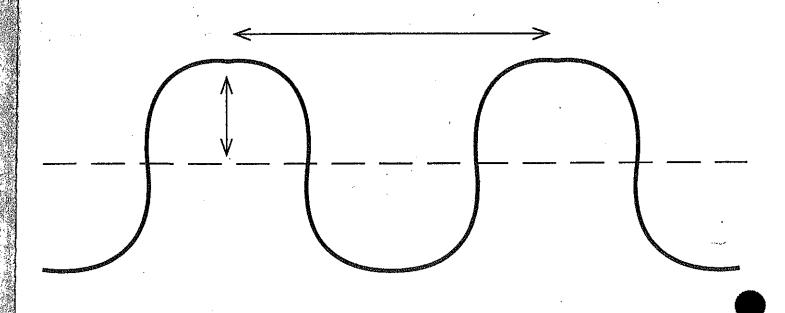
5. A jump rope is shaken producing a wave with a wavelength of 0.5 m with the crest of the wave passing a certain point 4 times per second. What is the velocity of the wave?

WAVE DIA	AGRAM
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Name _____

On the following diagram, place the following terms in their correct places: amplitude, wavelength, crest, trough, rest position.





Define the terms below.

amplitude _____

wavelength______

crest_____

trough _____