

Waves Worksheet	Name:	
	Date:	Period:
b) Wavelength cm c) Amplitude cm	d) frequency Hz	e.) speed cm/s
a) How many wave cycles are completed in this diagram	////// 1?	
b) Wavelength cm c) Amplitude cm	d) frequency Hz	e.) speed cm/s
Wave 6		
a) How many wave cycles are completed in this diagram	1?	
b) Wavelength cm c) Amplitude cm	d) frequency Hz	e.) speed cm/s
Wave 7 If this entire wave train is 30 meters long what is the wa	avelength of this wave?	

Challenge Problems: (Show equation, work, final answer with correct units.)

- 1. What is the wavelength of a sound wave with a frequency of 50 Hz? (Speed of sound is 342 m/s)
- 2. A sound wave in a steel rail has a frequency of 620 Hz and a wavelength of 10.5 m. What is the speed of sound in steel?
- 3. Determine the frequency of a microwave 6.0 cm in length. (A microwave is an electromagnetic wave. It travels through space at a speed of 3.0 x 10 ^8 m/s)
- 4. What is the period of the microwave in problem 3?