

- 9. A wave on Beaver Dam Lake passes by two docks that are 40.0 m apart.
 - a. If there is a crest at each dock and another three crests between the two docks, determine the wavelength.

b. If 10 waves pass one dock every 16.0 seconds, determine the period and frequency of the wave.

$$T = 1.6$$
 $f = 0.625 H_2$

c. What is the speed of the wave?

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_1 6.25 MS

12 The wavelength of a sound wave in this room is 1.13 m and the frequency is 301 Hz. a. What is the speed of the wave in the room?

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b. If you double the frequency of the sound wave, determine its speed.

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c. What happens to the wavelength if you cut the frequency in half? How do you know?

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