

Chapter 19 Vibrations and Waves
 Vibration and Wave Fundamentals — continued

5. A machine gun fires 10 rounds per second. The speed of the bullets is 300 m/s.

- a. What is the distance in the air between the flying bullets? 30m
- b. What happens to the distance between the bullets if the rate of fire is increased?

distance would decrease

6. Consider a wave generator that produces 10 pulses per second. The speed of the waves is 300 cm/s.

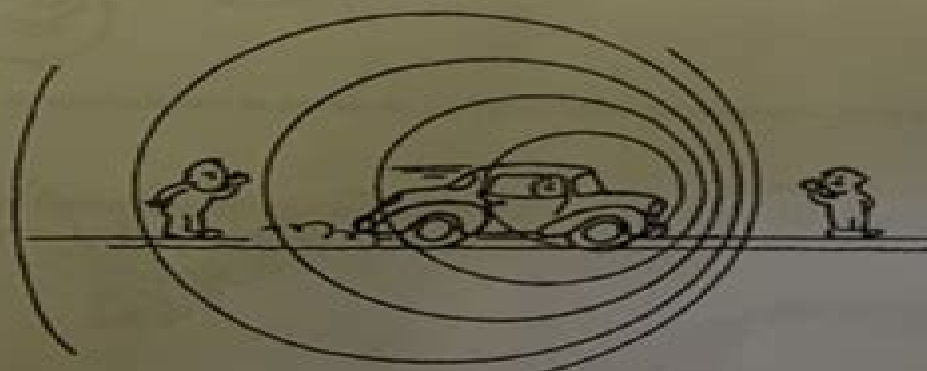
- a. What is the wavelength of the waves? _____
- b. What happens to the wavelength if the frequency of pulses is increased?

7. The bird at the right watches the waves. If the portion of a wave between 2 crests passes the pole each second.

- a. what is the speed of the waves? _____
- b. what is the period of wave motion? _____
- c. If the distance between crests were 1.5 meters apart, and 2 crests pass the pole each second, what would be the speed of the wave?



d. What would the period of wave motion be for 7 c ?



8. When an automobile moves toward a listener, the sound of its horn seems relatively

[low pitched] [high pitched] [normal]

and when moving away from the listener, its horn seems

[low pitched] [high pitched] [normal]

9. The changed pitch of the Doppler effect is due to changes in wave

[speed] [frequency] [both]

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