

Chapter 19 Vibrations and Waves
Vibration and Wave Fundamentals—continued

5. A tennis-ball pitching machine goes haywire and pitches at 10 rounds per second. The speed of the balls is an incredible 300 m/s.

- What is the distance in the air between the flying balls? _____
- What happens to the distance between the balls if the rate of pitching is increased?

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

- What is the wavelength of the waves? _____
- What happens to the wavelength if the frequency of pulses is increased?
 if the frequency of pulses is increased, then the wavelength will decrease.

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

- what is the speed of the waves? _____
- what is the period of wave motion? _____



8. If the distance between crests in the above question were 1.5 meters apart, and two crests pass the pole each second,

- what would be the speed of the wave? _____
- what would be the period of wave motion? _____

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

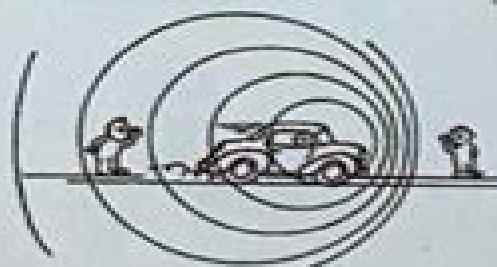
[low pitched] [high pitched] [normal]

and when moving away from the listener, its horn seems

[low pitched] [high pitched] [normal].

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

[wave speed] [wave frequency] [both].



Conceptual Physics Vibration And Waves Answers

Arthur James Wells



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Concepts in Physics Franklin Miller, Thomas J. Dillon, Malcolm K. Smith, 1969

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Vibrations and Waves Benjamin Crowell, 2000

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