

Chapter 10 HW

Review Questions: 5, 18, 24

Exercises: 2, 8, 12, 17, 24, 37, 38

Problems: 3, 6

Additional:

A. How many vibrations per second are represented in a radio wave of 101.7 MHz?

B. What is required to make a material resonate?

C. On a keyboard, you strike middle C; the frequency of this note is 256 Hz.

- a. What is the period of one vibration of this tone?
- b. What is the wavelength of the sound?

D. When exactly do we hear a sonic boom?

- a. Before the plane passes overhead
- b. When the plane is directly overhead
- c. After the plane has passed overhead