Name:		Class: Date: ID: A
Ch14	Sou	and Test
		14.1 Conceptual Questions
_	1)	What characteristics of a sound wave are related to the "pitch" of a musical note? (There could be more than one correct choice.) A) amplitude B) wavelength C) frequency D) period
	2)	Sound A has a high pitch and sound B has a low pitch. Which of the following statements about these two sounds are correct? (There could be more than one correct choice.) A) The wavelength of A is longer than the wavelength of B. B) The period of A is shorter than the period of B. C) The frequency of A is greater than the frequency of B. D) Sound B travels faster than sound B through air. E) The amplitude of A is larger than the amplitude of B.
_	3)	You double your distance from a sound source that is radiating equally in all directions. What happens to the intensity of the sound? It reduces to A) one-half its original value. B) one-fourth its original value. C) one-sixteenth its original value. D) none of the above
-	4)	Suppose that a sound source is emitting waves uniformly in all directions. If you move to a point twice as far away from the source, the frequency of the sound will be A) unchanged. B) half as great. C) one-fourth as great. D) twice as great.
	5)	Two tuning forks have frequencies of 440 and 522 Hz. What is the beat frequency if both are sounding simultaneously? A) 962 Hz B) 481 Hz C) 82 Hz D) 55 Hz E) 41 Hz

A) 1.2 sB) 1.3 sC) 1.4 sD) 1.5 sE) 1.6 s

ID: A

- The speed of sound through the ground is about 6.0 km/s while the speed of sound in air is 343 m/s. A very powerful explosion occurs some distance away and you feel the ground vibrate 60 seconds before you hear the sound of the explosion. How far away is the explosion?
 - A) 20 km
 - B) 22 km
 - C) 25 km
 - D) 27 km
 - E) 30 km