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Sound

Name	Class	Date
A boat is anchored at sea. What does the up and down motion of the boat show? A The molecules of water only move up and down while the energy moves forward. B The ocean is standing still. C The boat's motor is on. D The molecules of water move side while the energy moves forward.	s o side	/hat is the frequency of a wave with a peed of 20 m/s and a wavelength of .4 m? //ave speed = wavelength x frequency 8 Hz 0.2 Hz 5 0.4 Hz 2 20.4 Hz
Which statement about wave A and wave B is correct? A Wave A has a greater amplitude ar greater wavelength. B Wave B has a greater amplitude ar greater wavelength. C Wave A has a greater amplitude ar shorter wavelength. D Wave B has a greater amplitude ar shorter wavelength.	in class and a second	peed of sound changes due to the medium which sound waves travel. Based on this hart, what is the overall trend from the lowest to the fastest medium? Solids, liquids, gases gases, liquids, solids iliquids, solids iliquids (30°C) i
Two waves are moving in opposite directions through a medium. The will interfere constructively. What is amplitude of the wave produced which wave A and B meet? A 0 B 15 C 5 D 20	A B C	that is the wavelength of the wave? 1 cm 2 cm 3 cm 4 cm
When you sit in a certain seat in auditorium you notice the sound actually softer than it is a few se forward. Which wave interaction explains this problem? A reflection B interference C diffraction D refraction	ats	atch the term with the correct label. A
Match the term with the correct label. A B compression rarefaction wavelenge		atch the term with the correct definition. music

Sound

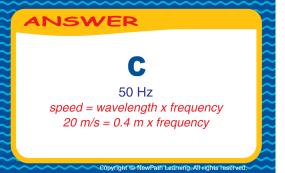
ANSWER KEY

A boat is anchored at sea. What does the **up and down** motion of the boat show?



- A The molecules of water only move up and down while the energy moves forward.
- B The ocean is standing still.
- C The boat's motor is on.
- **D** The molecules of water move side to side while the energy moves forward.





Which statement about wave A and wave B is correct?



- **A** Wave A has a greater amplitude and a greater wavelength.
- **B** Wave B has a greater amplitude and a greater wavelength.
- **C** Wave A has a greater amplitude and a shorter wavelength.
- **D** Wave B has a greater amplitude and a shorter wavelength.

Speed of sound changes due to the medium in which sound waves travel. Based on this chart, what is the overall trend from the slowest to the fastest medium?



C

- A solids, liquids, gases
- B gases, liquids, solidsC liquids, solids, gases
- **D** all the same speed

C 3 cm **D** 4 cm

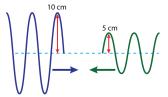




Two waves are moving in **opposite** directions through a medium. The waves will **interfere constructively**. What is the **amplitude** of the wave produced when wave A and B meet?

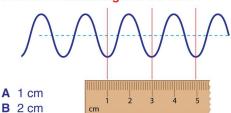


D 20



(b)

What is the wavelength of the wave?

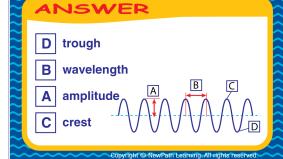


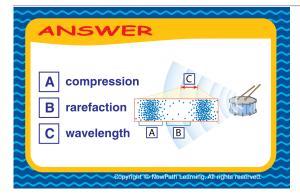


When you sit in a certain seat in an auditorium you notice the sound is actually **softer** than it is a few seats forward. Which **wave interaction** explains this problem?

- A reflection
- **B** interference
- **C** diffraction
- **D** refraction







ANSWER

A music: sound that produces pleasing patterns

c resonance: natural vibrational frequency

B quality of sound: distinct sound of an instrument