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## Worksheet Speed Of Sound Answers

**12-03a, 03b - key - wks- speed of sound** - for every degree below 0oc, the speed \_\_\_decreases\_\_\_ by 0.6 m/s. the equation is:  $v = 331 + 0.6(T - 0)$ . 3. what is the speed of sound at 35oc?  $v = 331 + 0.6(35)$  352m/s. 4. what is the speed of sound at -20.oc?  $v = 331 + 0.6(-20)$  319m/s. 5. other than the velocity/temperature equation, there are two important equations involving ... **12-02,03 - worksheet - speed of sound** - train is 1.65 km away, how long will it take him to hear the sound of the whistle? (the speed of sound in steel is 5200 m/s.) how long would it take his friend who is standing nearby to hear the same whistle if **misp speed of light and sound worksheet #3** - misp light and sound worksheet #3 l3 1 misp speed of light and sound worksheet #3 comparing the speed of sound and the speed of light in air and water you have learned a number of differences between electromagnetic waves, like light, radio frequency and sound waves. one of these differences involves the ability to travel in a vacuum. 1. **lesson 1 sound and music the physics classroom** - given that the speed of sound is 345 m/s, what is the wavelength of the sound waves? **psyw 6**. a female vocalist with a soprano voice can sing as high as 1000 hz. given that the speed of sound is 345 m/s, what is the wavelength of the sound waves? **psyw. sound and music sound and waves worksheet - algonquin & lakeshore** - sound and waves worksheet short answer 1. for each of the following, calculate the frequency, in hertz, and the period, in seconds: (a) a bee beating its wings 3000 times in 30 s (b) a tuning fork completing 2048 oscillations in 8.0 s 2. for the wave shown below, measure the wavelength and amplitude using a ruler. 3. complete the table below. **sound worksheet 1 - earl haig secondary school** - waves and sound - worksheet #1 name: \_\_\_\_\_ read chapter 7.1 and 7.2 up to page 340. then answer the following questions. figure 7.2 on page 329 shows two types of vibration. ... sound waves travel at a certain speed through air, the speed of sound. if we change wavelength or frequency, speed doesn't change. **speed problems worksheet #1 - tumwater middle school** - speed problems worksheet #1 name\_\_\_\_\_ velocity = distance/time distance = velocity x time ... how much time would it take for the sound of thunder to travel 2000 meters if sound travels a speed of 330 meters per sec. 8. how much time would it take for an airplane to reach its destination if it traveled at an average speed of 790 km/hr for a ... **waves and sound worksheet[1] - mrloyacano** - waves and sound worksheet 1. the sears building in chicago sways back and forth with a frequency of about 0.1 hz. what is its period of vibration? 2. an ocean wave has a length of 10 m. a wave passes a fixed location every 2 seconds. what is the speed of the wave? 3. water waves in a shallow dish are 6 cm long. **distance, time, speed practice problems** - 11. if you shout into the grand canyon, your voice travels at the speed of sound (340 m/s) to the bottom of the canyon and back, and you hear an echo. how deep is the grand canyon at a spot where you can hear your echo 5.2 seconds after you shout? challenge problem **sound energy unit grade 4 - ambitious science teaching** - sound energy and then back to mechanical energy as the energy goes from inside the singer, through the air, and into the glass. 3. there is a relationship between energy, forces, and matter. a. sound can make matter vibrate and vibrating objects make\* sound. b. the stronger the force that starts the vibration, the louder we hear the sound. 4. **speed of sound - webassign** - physics labs for scientists and engineers - mechanics worksheet lab 12-1 speed of sound as you work through the steps in the lab procedure, record your experimental values and the results on this worksheet. use the exact values you record for your data to make later calculations. data fill in the table below according to the instructions. table 1 **activity template - music . entertainment . technology** - from surfaces, and travels at a known speed. this experiment will give students an overview of sound that involves rate calculations, working with number systems, and a bit of geometry. engineering connection: engineers concerned with the acoustics of rooms focus on the paths traveled by sound waves, **name date period waves unit 2, worksheet 5** - c. the speed of the wave 11. what frequency and period would be required for sally and her cheerful, pleasant, hard-working partner to produce a standing wave with three nodes? explain your reasoning by identifying your steps. 12. the wavelength of a sound wave in this room is 1.13 m and the frequency is 301 hz. a.

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