

Physical Science: Speed of Sound Calculations

Directions: Solve the following problems. Round approximate answers to 2 digits after the decimal.

Formulas:
$$frequency = \frac{speed\ of\ sound}{wavelength}$$

$$speed\ of\ sound = (331.5 + 0.60 \times temperature\ of\ air\ in\ Celsius) m/s$$

1. A sound wave traveling through 22.3° C air has a wavelength of 9.65 meters. What is the frequency of the sound wave? Answer: _____

2. A jet aircraft is traveling at Mach 2.26 through the air at 9.27 °C. What is the jet's speed in m/sec? Answer: _____

3. What is the frequency of a wave that travels at a speed of 8.99 m/s and has a wavelength of 4.14 m? Answer: _____

4. What is the wavelength of a wave that travels at a speed of 3.67 m/s and has a frequency of 8.32 Hertz? Answer: _____

5. What is the speed of a wave that has a wavelength of 8.89 m and a frequency of 4.59 Hertz? Answer: _____

6. What is the wavelength of a wave that travels at a speed of 72.4 m/s and has a frequency of 11.1 Hertz? Answer: _____

7. What is the frequency of a wave that travels at a speed of 6.28 m/s and has a wavelength of 1.48 m? Answer: _____



Physical Science Sound Calculations

L Reisser



Physical Science Sound Calculations:

Whispering the Techniques of Language: An Psychological Journey through **Physical Science Sound Calculations**

In a digitally-driven world wherever monitors reign supreme and immediate connection drowns out the subtleties of language, the profound techniques and psychological nuances concealed within words frequently go unheard. However, set within the pages of **Physical Science Sound Calculations** a captivating literary prize blinking with fresh feelings, lies an extraordinary journey waiting to be undertaken. Published by a skilled wordsmith, this charming opus attracts readers on an introspective trip, gently unraveling the veiled truths and profound influence resonating within the very fabric of each word. Within the emotional depths with this emotional review, we shall embark upon a genuine exploration of the book is core styles, dissect their charming writing design, and yield to the effective resonance it evokes strong within the recesses of readers hearts.

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