

This print-out should have 21 questions. Multiple-choice questions may continue on the next column or page - find all choices before answering.

001 10.0 points

When a sound wave moves past a point in air, what happens to the density of air at this point?

1. The density of air increases and then decreases as the sound wave passes.

2. There is no change in the density of air.

3. The air is compressed after the sound wave passes.

4. There is no air after the sound wave passes.

002 10.0 points

A mosquito flaps its wings 800 times per second, which produces the annoying 800 Hz buzz.

$$v = f\lambda$$

How far does the sound travel between wing beats? The speed of sound in air is 340 m/s.

Answer in units of m.

$$\lambda = 0.425 \text{ m} \quad \lambda = \frac{v}{f} = \frac{340}{800} =$$

003 10.0 points

If the frequency of sound is doubled, how will its speed change? How will its wavelength change?

$$v = f\lambda \quad 2f = \frac{v}{\lambda}$$

1. Both speed and wavelength will double.

2. Its speed will double, and its wavelength will not change.

3. Its speed will halve, and its wavelength will double.

4. There will be no change in its speed and wavelength.

5. Its speed will not change, and its wavelength will halve.

004 (part 1 of 2) 10.0 points

The sound level at a distance of 4.37 m from a source is 148 dB.

At what distance will the sound level be 90.3 dB?

1. 899.59

2. 2844.48

3. 3934.41

4. 70.6102

5. 1871.1

6. 363.084

7. 834.02

8. 3353.37

9. 983.678

10. 142.294

Answer in units of m.

$$P_1 = 148 \text{ dB} \quad P_2 = 90.3 \text{ dB} \quad \left. \begin{array}{l} P_1 \\ P_2 \end{array} \right\} \text{ sound level}$$

$$d_2 = d_1 \sqrt{10 \left(\frac{P_1 - P_2}{10} \right)}$$

$$d_2 = (4.37) \sqrt{10 \left(\frac{(148 - 90.3)}{10} \right)}$$

$$d_2 = 3353.37 \text{ m}$$

005 (part 2 of 2) 10.0 points

At what distance will the sound level be 11.4 dB?

1. 2.95448×10^7

2. 2.80357×10^6

3. 5.26049×10^5

4. 8.96303×10^5

5. 1.57442×10^6

6. 6.85445×10^5

7. 97807.1

8. 1.38729×10^7

9. 2.34146×10^6

10. 8.52041×10^5

Answer in units of m.

$$d_2 = 4.37 \sqrt{10 \left(\frac{(148 - 11.4)}{10} \right)}$$

$$d_2 = 29544846.02 \text{ m}$$

006 10.0 points

Suppose that you hear a clap of thunder 8.8 s after seeing the associated lightning strike.

How far are you from the lightning strike? The speed of sound waves in air is 340 m/s and the speed of light in air is 3×10^8 m/s.

1. 2.3052

2. 3.192

3. 4.2926

4. 6.8

5. 2.992

6. 3.762

7. 4.76

8. 3.8194

9. 2.8985

10. 2.1142

Answer in units of km.

$$t_{\text{lightning}} = \frac{\Delta x}{v_{\text{sound}}}$$

$$8.8 \text{ s} = \frac{\Delta x}{340 \text{ m/s}}$$

$$\Delta x = 2992 \text{ km}$$

Ut Quest Physics Solutions

JL Elias



Ut Quest Physics Solutions:

Ut Quest Physics Solutions Book Review: Unveiling the Magic of Language

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