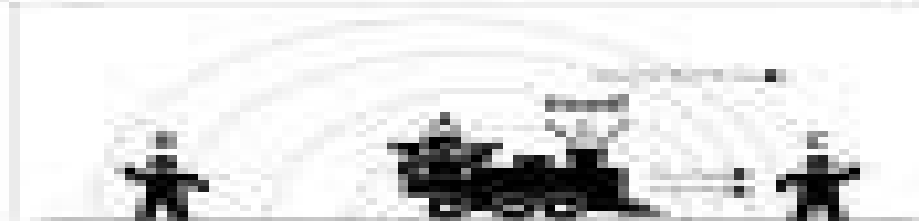


Astronomy Ranking Task: Doppler Shift

Question #1:

Scenario: The figure below shows a car travelling toward the right and emitting its horn. Three people are shown at locations A, B, and C. How would the sound frequency be:



1. **Ranking Question:** Rank the people at the four locations (A, B, or C) according to how high the frequency is heard by each person (A, B, C).

Ranking Student: Highest (A, B, C) _____ (A, B, C) Lowest

On the provided graph, please record the value _____ (fill in with words only).

Explain: explain your reasoning for ranking this way.

Person A will hear the sound at the highest relative frequency. Person B will hear the sound at the same frequency as the car. Person C will hear the sound at the lowest frequency. This is because the car is moving toward the right, so the sound waves are compressed in front of the car and spread out behind the car. The frequency of the sound waves is highest in front of the car and lowest behind the car.

2. **Ranking Question:** Rank the soundings (A, B, or C) according to how loud the sound is heard by each person (A, B, C).

Ranking Student: Loudest (A, B, C) _____ (A, B, C) Quietest

On the provided graph, please record the value _____ (fill in with words only).

Explain: explain your reasoning for ranking this way.

Person A will hear the sound at the loudest relative frequency. Person B will hear the sound at the same frequency as the car. Person C will hear the sound at the lowest frequency. This is because the car is moving toward the right, so the sound waves are compressed in front of the car and spread out behind the car.

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Astronomy Ranking Task Doppler Shift Answers

Badri M. Aghassi



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Technical Education and Industrial Training, 1965 *Instructor's resource book* Robert Jastrow, Malcolm H. Thompson, 1974 Instructor's Manual to Accompany Essentials of the Dynamic Universe: an Introduction to Astronomy. Second Edition, Theodore P. Snow Stephen J. Shawl, 1987 *Review Questions in Astronomy* Badri M. Aghassi, 1978

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