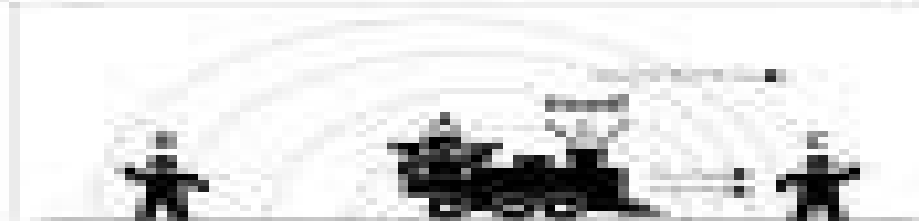


Astronomy Ranking Task: Doppler Shift

Question #1:

Scenario: The Space Shuttle *Orion* is just launching toward the right and emitting its radio waves. People are seated at locations A, B, and C. Assume that all three people can hear the radio (transmitting) beam.



1. **Ranking Question:** Rank the people at the three launch-point positions (transmitting) according to the frequency as heard by each person (A, B, C).

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

On the provided graph, write down the _____ frequency with short notes.

Explain: explain your reasoning for ranking this way.

Person A, who is closest to the shuttle, hears the highest received frequency. Person B, who is moving away from the vehicle, hears a lower frequency, and C, who is moving away from the vehicle, hears a lower frequency. Person C, however, is moving away from the shuttle, so the frequency is lower. Person B, who is moving away from the shuttle, hears a lower frequency.

2. **Ranking Question:** Rank the wavelengths (transmitted and received) of the radio waves heard by each person (A, B, C).

Ranking Student: Longest (A, B, C) _____ (A, B, C) Shortest

On the provided graph, write down the _____ wavelength with short notes.

Explain: explain your reasoning for ranking this way.

Person A, who is closest to the shuttle, hears the highest received frequency. Person B, who is moving away from the vehicle, hears a lower frequency, and C, who is moving away from the shuttle, hears a lower frequency.

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Robert Jastrow, Malcolm H. Thompson



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