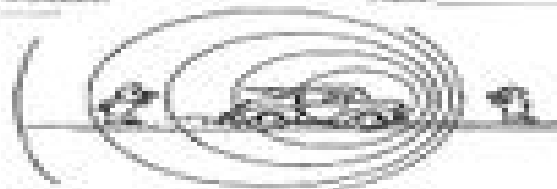
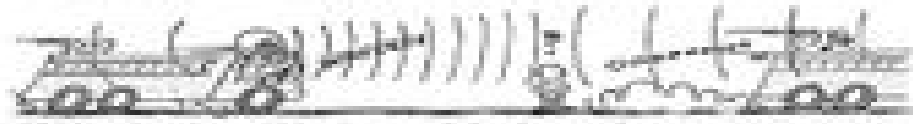


Doppler Effect Worksheet

Name _____



1. When an automobile moves towards a listener, the sound of its horn seems relatively
 - a. Low pitched
 - b. High Pitched
 - c. Normal
2. When the automobile moves away from the listener, its horn seems
 - a. Low pitched
 - b. High Pitched
 - c. Normal
3. The changed pitch of the Doppler effect is due to changes in
 - a. Wave speed
 - b. wave frequency
4. Check the letter of each statement about the Doppler Effect that is true:
 - a. It occurs when a wave source moves towards an observer
 - b. It occurs when an observer moves towards a wave source
 - c. It occurs when a wave source moves away an observer
 - d. It occurs when an observer moves away a wave source
5. True/ False: A moving wave source does not affect the frequency of the wave measured by the observer.
6. True/ False: A higher frequency results when a wave source moves towards an observer.
7. True/ False: Trucks will move on speed towards and away from an observer as shown below.



- A) Which truck produces a higher than normal wave frequency?
 - B) Which truck produces a lower than normal wave frequency?
8. Draw the sound waves around the moving truck below similar to the illustration from the beginning of class. Describe the sound that each observer would hear in terms of its pitch.

