

PHYSICS

Name: _____

Worksheet - Relative velocity

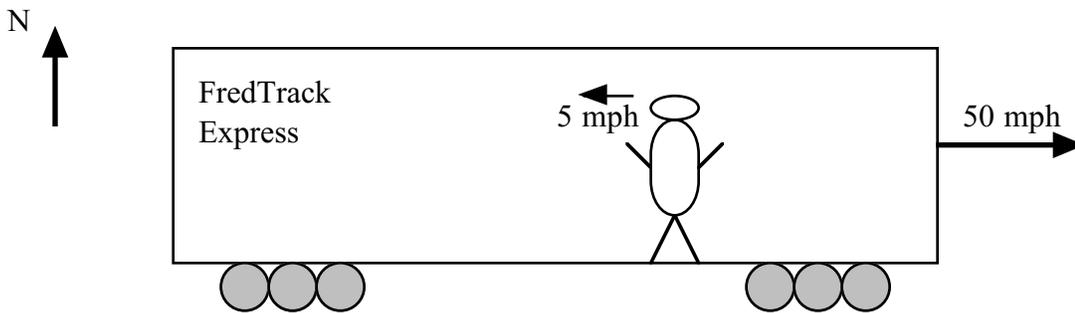
Date	Hr
------	----

_____ 1. Velocity depends on both ? and ?.

_____ 2. An object travels west for 4 minutes and covers 20 feet, find its speed and velocity.

3. Can an object have constant speed but changing velocity? Explain.

Refer to the picture below to answer the following questions.



stationary observer ●

_____ 4. What is the velocity of the train wrt the observer?

_____ 5. What is the speed of the passenger wrt the observer?

_____ 6. What is the velocity of the observer wrt train?

_____ 7. What is the velocity of the train wrt the passenger?

_____ 8. What is the velocity of the observer wrt the passenger?

_____ 9. What is the velocity of the train wrt a passenger buckled into her seat?

_____ 10. What would the velocity of the train be to a car moving in the opposite direction at 60 mph?