

Name: _____

Speed Work

1. In traveling from Caledonia to Orlando, Florida, a family drives 1200 miles. If their total driving time is 24 hours, then what was their average speed while driving?
2. How long does it take a jogger running at 2.0 m/sec to travel 1 kilometer. Give your answer in both seconds and minutes.
3. A high school pitcher throws a fast ball which travels at 120 ft/sec. How long does it take to cross the plate 60 feet away?
4. When we judge the motion of an object it is necessary for us to have an object or point which we consider stationary in order to measure the motion. We call this point what?
5. A bus travels on an interstate highway at 80 km/hr. How far does the bus travel in 15 minutes ($\frac{1}{4}$ of an hour)
6. A student travels 3.5 miles every day on the bus to school. What is the student's total distance traveled to and from school each day? What is the student's total displacement traveled?
7. During a 4th of July fireworks display you notice that you can see the explosions before you hear them. You time a few and discover that the explosion comes 1.2 second after you see it. If the speed of sound in air is 340 m/s how far away are the fireworks when they explode?
8. A 747 jetliner travels 3000 miles from New York to L.A. in 5 hours. What is the average speed of the jet?