

## **Velocity**

Name \_\_\_\_\_  
Date \_\_\_\_\_ Period \_\_\_\_\_

**In order to receive credit for this worksheet you MUST show your work.**

1. What is the unit rate of speed of a car that travels 150 km in 3 hrs?
2. Convert 36 km / hr to m/s.
3. What is the unit rate of speed of a bus that travels 250 km in 2 hours?
4. Convert your answer from 3km/hr to meters per second. Write as m/s.
5. What distance will a car traveling 65 km/hr travel in 3 hrs?
6. What distance will be traveled if you are going 120 km/hr for 30 min?
7. How long will it take to go 150 km traveling at 50 km/hr?
8. How long will it take to travel 200 km traveling 10 m/s?
9. If a rocket travels 5600 km in 3 hours, what is its speed?
10. Convert to m/s.
11. A car travels 240 km in 2.0 hrs and a sprinter travels a 100 m in 9.5 s. Which is traveling faster and by how much?
12. You drive a car from Milwaukee to Chicago in 90 min. What is its velocity in km/hr and speed in m/s? Were you speeding? Use 150 km as your distance.
13. A vehicle travels 2100 m in 300 s toward the evening sun. What is its velocity?