Speed, Distance, and Time Calculations Worksheet

Speed Calculations: Use the speed formula to calculate the answers to the following questions. Be sure to show your work for each problem (write the formula, numbers with correct units, and the answer with the correct units).

1. Calculate the speed for a car that went a distance of 125 kilometers in 2 hours time.

Equation:	
Plug numbers into the equation	
Final Answer w/ units	

2. A baseball is thrown a distance of 60 meters. What is its speed if it takes 0.5 seconds to cover the distance?

Equation:	
Plug numbers into the equation	
Final Answer w/ units	

3. How much time does it take for a bird flying at a speed of 45 kilometers per hour to travel a distance of 1,800 kilometers?

Equation:	
Plug numbers into the equation	
Final Answer w/ units	

4. A comet is cruising through the Solar System at a speed of 50,000 kilometers per hour for 4 hours time. What is the total distance traveled by the comet during this time?

Equation:	
Plug numbers into the equation	
Final Answer w/ units	

5. Bob rides his bicycle on a bike path that is 75 kilometers long to get to his house that is due east of the bike path. If it takes Bob 15 hours then

a. What is his speed?

Equation:	
Plug numbers into the equation	
Final Answer w/ units	

b. What is his velocity?

Equation:	
Plug numbers into the equation	
Final Answer w/ units	

6. Jessica jogs on a path that is 25 kilometers long to get to a park that is south of the jogging path. If it takes Jessica 2.5 hours then

a. What is her speed?

Equation:	
Plug numbers into the equation	
Final Answer w/ units	

b. What is her velocity?

Equation:	
Plug numbers into the equation	
Final Answer w/ units	

7. What is the velocity of a motorcycle traveling 10 km west in 3 hours?

Equation:	
Plug numbers into the equation	
Final Answer w/ units	

8. How much time does it take a person to walk 12 km north at a velocity of 6.5 km/h?

Equation:	
Plug numbers into the equation	
Final Answer w/ units	

9. If the velocity of a car is 45 km/h west, how far can it travel in 0.5 hours?

Equation:	
Plug numbers into the equation	
Final Answer w/ units	

10. What is the velocity of a rocket that goes 700 km north in 25 seconds?

Equation:	
Plug numbers into the equation	
Final Answer w/ units	

Name:_____ Period:_____

Complete the missing information in the table:

Speed	Distance	Time
70mph		2 hours
	55km	11 hours
200km/h		0.75 hours
0.5m/s	3.5 meters	
	357.5 miles	5.5 hours
12mph		2.25 hours