

Name: \_\_\_\_\_

Period: \_\_\_\_\_

## **Motion - At Home Assignment**

⇔⇔⇔ **Show your work!!**

1. A blue whale is migrating South, and swam for 12 hours at an average speed of 21 km per hour. What distance did it swim during these 12 hours? What was its velocity?
  
2. A girl throws a frisbee North at 5 mph and a second frisbee East at 5 mph. Did the two frisbee have the same velocity? Explain.
  
3. Scientists recorded one great white that swam a total of 12,400 miles in nine months, an average of 45 miles each day. What was the average speed of the great white shark in miles per hour?
  
4. A cheetah runs at a constant speed of 18 m/s. How long will it take for the cheetah to run 300m?
  
5. An athlete completes an Ironman triathlon with the following times:
  - Swim (2.4 miles) : 1.16 hours
  - Bike (112 miles) : 6.5 hours
  - Run (26.2 miles) : 5 hoursWhat was the athlete's average speed?