DETERMINING SPEED ((VELOCITY)
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Name			
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Speed is a measure of how fast an object is moving or traveling. Velocity is a measure of how fast an object is traveling in a certain direction. Both speed and velocity include the distance traveled compared to the amount of time taken to cover this distance.

speed = distance velocity = distance in a specific direction

Answer the following questions.

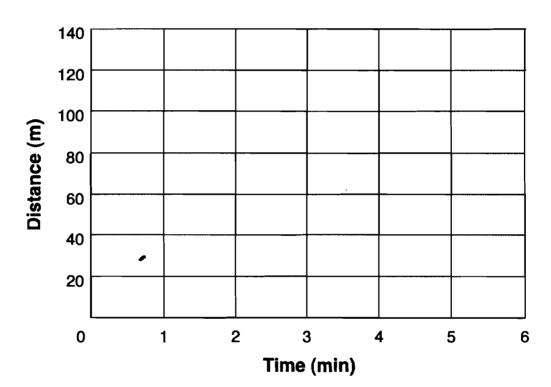
- 1. What is the velocity of a car that traveled a total of 75 kilometers north in 1.5 hours?
- 2. What is the velocity of a plane that traveled 3,000 miles from New York to California in 5.0 hours?
- 3. John took 45 minutes to bicycle to his grandmother's house, a total of four kilometers. What was his velocity in km/hr?
- 4. It took 3.5 hours for a train to travel the distance between two cities at a velocity of 120 miles/hr. How many miles lie between the two cities?
- 5. How long would it take for a car to travel a distance of 200 kilometers if it is traveling at a velocity of 55 km/hr?
- 6. A car is traveling at 100 km/hr. How many hours will it take to cover a distance of 750 km?
- 7. A plane traveled for about 2.5 hours at a velocity of 1200 km/hr. What distance did it travel?
- 8. A girl is pedaling her bicycle at a velocity of 0.10 km/min. How far will she travel in two hours?
- 9. An ant carries food at a speed of 1 cm/s. How long will it take the ant to carry a cookie crumb from the kitchen table to the ant hill, a distance of 50 m? Express your answer in seconds, minutes and hours.
- 10. The water in the Buffalo River flows at an average speed of 5 km/hr. If you and a friend decide to canoe down the river a distance of 16 kilometers, how many hours and minutes will it take?

CALCULATING AVERAGE SPEED

Name _____

Graph the following data on the grid below and answer the questions at the bottom of the page.

Time (min)	Distance (m)
0	0
1	50
2	· 75
3	90
4	110
5	125



Average Speed = Total Distance
Total Time

- What is the average speed after two minutes? ______
- 2. After three minutes? _____
- 3. After five minutes? _____
- 4. What is the average speed between two and four minutes? _____
- 5. What is the average speed between four and five minutes? _____