

Name _____ Date _____ Hour _____

Determining Speed (Velocity)

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.

$\text{Speed} = \frac{\text{distance}}{\text{time}}$	$\text{velocity} = \frac{\text{distance}}{\text{time}}$	in a specific direction
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Answer the following questions.

- What is the velocity of a car that traveled a total of 75 kilometers north in 1.5 hours?
50 km/hr $75 \div 1.5$ North
- What is the velocity of a plane that traveled 3,000 miles from New York to California in 5.0 hours?
600 mi/hr $3000 \div 5$ West
- John took 45 minutes to bicycle to his grandmother's house, a total of four kilometers. What was his speed in km/hr?
5.3 km/hr $\frac{4}{45 \text{ min.}} \times \frac{4}{75 \text{ hr.}}$
- It took 3.5 hours for a train to travel the distance between two cities at a speed of 120 miles/hr. How many miles lie between the two cities?
420 mi. $3.5 \cdot 120$
- How long would it take for a car to travel a distance of 200 kilometers if it is traveling at a speed of 55 km/hr?
3.6 hrs. $200 \div 55$
- A car is traveling at 100 km/hr. How many hours will it take to cover a distance of 750 km?
7.5 hrs. $750 \div 100$
- A plane traveled for about 2.5 hours at a speed of 1200 km/hr. What distance did it travel?
3000 km $2.5 \cdot 1200$
- A girl is pedaling her bicycle at a speed of 0.10 km/min. How far will she travel in two hours?
12 km $.1 \cdot 120 = 2 \text{ hrs} = 120 \text{ min}$
- An ant carries food at a speed of 1 cm/s. How long will take the ant to carry a cookie crumb from the kitchen table to the anthill, a distance of 50 m? Express your answer in seconds. How many hours is this?
5000s, 83.3 min., 1.39 hrs OR 1 hr - 23 min. - 20 sec.
- 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?
3 hrs. - 12 min. $16 \div 5 = 3.2 \text{ hrs.}$ $.2 \cdot 60 = 12 \text{ min.}$

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