

Name _____

Date _____

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Understanding Speed (Velocity)

Speed is a measure of how fast an object is moving or travelling. Velocity is a measure of how fast an object is travelling in a certain direction. Both speed and velocity include the distance travelled compared to the amount of time taken to cover this distance.

$$\text{Speed} = \frac{\text{distance}}{\text{time}} \quad \text{velocity} = \frac{\text{distance}}{\text{time}} \quad \text{in a specific direction}$$

Answer the following questions:

1. What is the velocity of a car that travelled a total of 75 kilometres north in 1.5 hours?
 50 km/hr $75 \div 1.5 = 50$ North
2. What is the velocity of a plane that travelled 3,000 miles from New York to California in 5.0 hours?
 600 miles/hr $3000 \div 5 = 600$ West
3. John rode his bicycle to his grandfather's house, a total of 50 kilometres. What was his speed in km/hr?
 5.5 km/hr $\frac{5}{1} \times \frac{1}{10} = \frac{1}{2} \text{ hr}$ $\frac{5}{1/2} = 10 \text{ km/hr}$
4. It took 1.5 hours for a train to travel the distance between two cities at a speed of 120 miles/hr. How many miles do there are the two cities?
 180 mi $1.5 \times 120 = 180$
5. How long would it take for a car to travel a distance of 200 kilometres if it is travelling at a speed of 50 km/hr?
 4 hrs $200 \div 50 = 4$
6. A car is travelling at 100 km/hr. How many hours will it take to cover a distance of 750 km?
 7.5 hrs $750 \div 100 = 7.5$
7. A plane travelled for about 2.5 hours at a speed of 1,200 km/hr. What distance did it travel?
 3000 km $2.5 \times 1200 = 3000$
8. A girl is pedalling her bicycle at a speed of 0.25 km/min. How far will she travel in two hours?
 3 km $.25 \times 0.25 = .125 \text{ hr} = 12.5 \text{ min}$ $12.5 \times 24 = 300 \text{ min}$
9. An ant crawls south at a speed of 1 cm/s. How long will take the ant to carry a crumb around from the 12 inches table to the couch, a distance of 50 m? Express your answer in seconds. How many hours is that?
 5000 s $50 \text{ m} \div 0.01 \text{ m/s} = 5000 \text{ s}$ $5000 \div 60 \div 60 = 1.39 \text{ hrs}$ $1 \text{ hr} = 3600 \text{ s}$ $5000 \div 3600 = 1.39 \text{ hrs}$
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 10 kilometres, how many hours and minutes will it take?
 $2 \text{ hrs} = 120 \text{ min}$ $10 \div 5 = 2 \text{ hrs}$ $.2 \times 60 = 12 \text{ min}$

Skills Worksheet Math Skills Velocity Answers

Mocktime Publication



Skills Worksheet Math Skills Velocity Answers:

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