

Word Problems: Distance = Rate x Time
Jefferson Davis Learning Center, Sandra Peterson

Solve each word problem by using the charts on the next page.

1. Marie rode her bicycle from her home to the bicycle shop in town and then walked back home. If she averaged 6 miles per hour riding and 3 miles per hour walking, how far is it from her home to the bicycle shop if her total travel time was 1 hour?
2. A ski lift carries a skier up a slope at the rate of 800 feet per minute and he returns from the top to the bottom on a path parallel to the lift at an average rate of 2640 feet per minute. How long is the lift if the round trip traveling time is 20 minutes?
3. A hiker climbs a mountain path at the rate of 2 miles per hour. Following the same path down the mountain, the hiker has a rate of 4 miles per hour. If the round trip took 3 hours, how far is it from the top to the bottom of the mountain?
4. A man leaves the town of Elmsville at 8:00 am and drives to Oak City at a constant rate of 50 miles per hour. Two hours later, a woman leaves Elmsville following the same route to Oak City. The man and woman arrive in Oak City at 3:00 pm. What was the rate of the woman? How far is Elmsville from Oak City?
5. Tim and a friend left a campsite on a trip down a river in a canoe, maintaining a constant speed of 4 miles per hour. Four hours later, Tim's father set out after them in a motorboat carrying the camping supplies. The motorboat traveled at a rate of 12 miles per hour. How long after he started did Tim's father overtake the boys?
6. It takes a passenger train 2 hours less time than it takes a freight train to make the trip from Brownsville to Greentown. If the passenger train averages 60 miles per hour on the trip while the freight train averages 40 miles per hour on the trip, how far is it from Brownsville to Greentown?

Answers:

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| 1. 2 miles | 2. 13,200 feet |
| 3. 4 miles | 4. 70 miles per hour; 350 miles |
| 5. 2 hours | 6. 240 miles |

Please visit the Learning Lab for further assistance.

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	Rate	Time	Distance

	Rate	Time	Distance

	Rate	Time	Distance

	Rate	Time	Distance

	Rate	Time	Distance

	Rate	Time	Distance