

Name _____
Date _____

Elementary Algebra - MTH 098-181
Class 09

Distance - Rate - Time Questions

Quality - Accuracy - Transfer - 100%

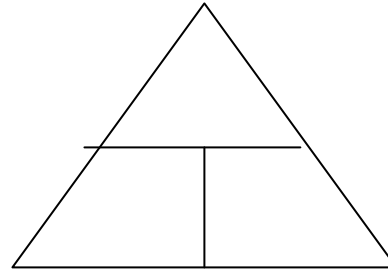
Section 1. Distance - Time - Rate Questions.

The Distance Formula: _____

d = _____

r = _____

t = _____



1. If a car is traveling at 40 mph, represent how far it will travel in x hours.
2. A train has traveled 300 miles. Represent how long the trip took if the train was traveling at a rate of: $(x + 10)$ mph.
3. A plane flies $(x + 1500)$ miles in 5 hours. Represent the rate of the plane in terms of x .

Section 2. Distance - Time - Rate Questions.

1. Two cars start from the same point and at the same time and travel in opposite directions. The slower car travels at 28 miles per hour, and the faster car travels at 35 miles per hour. In how many hours will the two cars be 252 miles apart?

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2. Two trains start at the same time from different stations that are 360 miles apart and traveled toward each other. The rate of the faster train exceeded the rate of the slow train by 10 mph. At the end of 2 hours, the trains were still 120 miles apart. Find the rate of each train.

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3. How far can a man drive out into the country at the average rate of 40 miles per hour and return over the same road at the average rate of 30 miles per hour if he travels a total of 7 hours?

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4. Saratoga, NY and New York City are 180 miles apart. A truck travels from New York toward Saratoga at the rate of 44 miles per hour. At the same time a truck leaves Saratoga bound for New York City at the rate of 36 miles per hour. How many miles did each truck travel at the point where they met?

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5. Two planes left different airports at the same time that were 4500 miles apart and flew toward each other. In 5 hours, they passed each other. The rate of the fast plane was twice the rate of the slow plane. Find the rate of each plane.

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6. A ship left its port and sailed east in to the Atlantic Ocean at a constant rate of 20 mph. One hour later, a second ship, left the same port, and traveled in the same direction at a constant rate of 25 mph. In how many hours did the second ship overtake the first?

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Homework Section

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