Name_____

Distance-Rate-Time Practice Problems

Date_____

1) Alberto left the movie theater and drove south at an average speed of 25 mph. Mark left two hours later and drove in the opposite direction with an average speed of 35 mph. Find the number of hours Mark needs to drive before they are 170 mi. apart.

2) A freight train traveled to the repair yards and back. The trip there took ten hours and the trip back took four hours. It averaged 80 km/h on the return trip. Find the average speed of the trip there.

3) Elisa left the hospital and traveled toward her friend's house. Two hours later Adam left traveling at 70 mph in an effort to catch up to Elisa. After traveling for three hours Adam finally caught up. Find Elisa's average speed.

4) An Air Force plane left London and flew toward Dublin at an average speed of 165 km/h. A jet left one hour later and flew in the opposite direction with an average speed of 275 km/h. How long does the jet need to fly before the planes are 1925 km apart?

5) Molly drove to the recycling plant and back. The trip there took four hours and the trip back took six hours. She averaged 10 km/h faster on the trip there than on the return trip. Find Molly's average speed on the outbound trip.

6) Stefan left the movie theater and traveled south. One hour later Beth left traveling 16 km/h faster in an effort to catch up to him. After four hours Beth finally caught up. What was Stefan's average speed?

7) A passenger train traveled to the fueling station and back. The trip there took 14 hours and the trip back took 18 hours. It averaged 10 mph faster on the trip there than on the return trip. What was the passenger train's average speed on the outbound trip?

8) An aircraft carrier left Hawaii and traveled toward dry dock at an average speed of 8 mph. A container ship left some time later traveling in the same direction at an average speed of 20 mph. After traveling for four hours the container ship caught up with the aircraft carrier. How long did the aircraft carrier travel before the container ship caught up?

9) Sarawong made a trip to his cabin on the lake and back. On the trip there he drove 32 mph and on the return trip he went 40 mph. How long did the trip there take if the return trip took four hours?

10) Mike left home and traveled toward his friend's house. Three hours later Bill left traveling 33 mph faster in an effort to catch up to him. After two hours Bill finally caught up. What was Mike's average speed?

Answers to Distance-Rate-Time Practice Problems

1) 2 hours
2) 32 km/h
3) 42 mph
4) 4 hours
5) 30 km/h
6) 64 km/h
7) 45 mph
8) 10 hours
9) 5 hours
10) 22 mph