

Name: \_\_\_\_\_



# Distance, Rate, and Time Word Problems

- 1.) This weekend, Jolene drove for a total of 19 hours and drove a total of 589 miles. What was her average rate of speed in miles per hour?
  
- 2.) Two-thirds of a gallon of fuel costs Jolene \$3.17. What is the unit rate per gallon of fuel (to the nearest cent)?
  
- 3.) Jolene took a trip from Denver, Colorado to Cheyenne, Wyoming. The trip took her 3 hours to get to Cheyenne, and 4 hours to get back to Denver. If she averaged 6 kilometers per hour on her return trip, what was her average rate of speed on the way there?
  
- 4.) While driving, Jolene listened to a playlist that is 4.25 hours long and has 91 songs. What is the average length of each song in minutes?
  
- 5.) Jolene left her house for a road trip at an average speed of 32 miles per hour. Her sister, Maggie, left two hours later. How fast would Maggie have to drive to catch Jolene after two hours of driving?
  
- 6.) Jolene left her house this morning to drive to the National Park. Lukas left three hours later driving at an average speed of 45 miles per hour faster than Jolene in an effort to catch her. After two hours, Lukas finally caught Jolene. What was Jolene's average speed in miles per hour?

## **ANSWER KEY**

- 1.) 31 miles per hour**
- 2.) \$4.76 per gallon**
- 3.) 8 kilometers per hour**
- 4.) 2.8 songs per minute**
- 5.) 48 miles per hour**
- 6.) 30 miles per hour**