Name	Date	Period	Activity	
			Chapter 5, Lesson 11	
Computing Average	Speed			

Example	Francine drives 259 miles in 6 hours and 24 minutes. Find her average rate of speed.		
Step 1	Convert minutes to a decimal part of an hour by dividing by 60.	.4 Hours 60)24.0 Minutes	
Step 2	Write the hours as a decimal number.	6 hours and 24 minutes = 6 hours + .4 hours = 6.4 hours	
Step 3	Divide the miles by the hours	$\frac{40.4}{0.4} \approx 40 \text{ miles per hour}$	

Francine's average rate of speed is 40 miles per hour.

**Directions** Find the average speed for these trips. Round your answer to the nearest mile per hour.

	Distance	Time	Average Speed
1.	140 miles	3 hours, 30 minutes	
2.	238 miles	5 hours, 24 minutes	
3.	1,205 miles	30 hours, 45 minutes	
4.	387 miles	12 hours, 54 minutes	
5.	446 miles	17 hours, 48 minutes	
6.	968 miles	22 hours, 15 minutes	
7.	1,097 miles	27 hours, 30 minutes	
8.	488 miles	14 hours, 42 minutes	
9.	316 miles	7 hours, 36 minutes	
10.	324 miles	9 hours, 55 minutes	
11.	349 miles	12 hours, 6 minutes	
12.	208 miles	4 hours, 12 minutes	
13.	472 miles	10 hours, 14 minutes	
14.	885 miles	29 hours, 30 minutes	
15.	976 miles	23 hours, 18 minutes	



Name	Date	Period	Activity
			Chapter 5, Lesson 13
Buying Gasoline			
<b>EXAMPLE</b> Simone has \$10.00. She wants to buy gas at \$1.09 <sup>9</sup> .			

How many gallons can she buy?  $1.09^9 = 1.099$ **Step 1** Write the price of the gas as a decimal. 9.09  $\approx$  9.1 gallons **Step 2** Divide the amount of money 1.099 ) 10.00 by the price of one gallon of gas. Simone may purchase 9.1 gallons.

**Directions** Find the amount of gas you can buy with each amount of money. Round your answer to the nearest tenth of a gallon.

	Amount of Money	Cost per Gallon of Gasoline	Gallons of gas
1.	\$10	\$1.08 <sup>9</sup>	
2.	\$20	\$1.23 <sup>9</sup>	
3.	\$50	\$.99 <sup>9</sup>	
4.	\$14	\$1.35 <sup>9</sup>	
5.	\$25	\$1.17 <sup>9</sup>	
6.	\$5	\$1.08 <sup>9</sup>	
7.	\$3	\$.98 <sup>9</sup>	
8.	\$12	\$1.01 <sup>9</sup>	
9.	\$10	\$1.02 <sup>9</sup>	
10.	\$15	\$1.42 <sup>9</sup>	
11.	\$25	\$1.34 <sup>9</sup>	
12.	\$22	\$1.02 <sup>9</sup>	
13.	\$40	\$1.119	
14.	\$26	\$1.07 <sup>9</sup>	
15.	\$10	\$1.28 <sup>9</sup>	
16.	\$9	\$1.31 <sup>9</sup>	
17.	\$16	\$1.119	

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