| Name | Date | Period |
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|  | Activity |  |

## 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 .

Step 2 Write the hours as a
6 hours and 24 minutes $=$ decimal number.
$6 0 \longdiv { 2 4 . 0 }$ Mours

6 hours +.4 hours $=6.4$ hours
Step 3 Divide the miles by the hours $6 . 4 \longdiv { 2 5 9 . 0 } \approx 4 0$ 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
3 hours, 30 minutes
5 hours, 24 minutes
30 hours, 45 minutes
12 hours, 54 minutes
17 hours, 48 minutes
22 hours, 15 minutes
27 hours, 30 minutes
14 hours, 42 minutes
7 hours, 36 minutes
9 hours, 55 minutes
12 hours, 6 minutes
4 hours, 12 minutes
10 hours, 14 minutes
29 hours, 30 minutes
23 hours, 18 minutes

Average Speed
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
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$\qquad$
$\qquad$
$\qquad$
$\qquad$
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| Name | Date | Period |
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|  |  | Activity |
|  |  | Chapter 5, Lesson 13 |

## Buying Gasoline

EXAMPLE Simone has $\$ 10.00$. She wants to buy gas at $\$ 1.09^{9}$. How many gallons can she buy?

Step 1 Write the price of the gas as a decimal. $\$ 1.09^{9}=1.099$

Step 2 Divide the amount of money by the price of one gallon of gas. $\frac{9.09}{} \underset{1.099}{10.00} \approx 9.1$ gallons

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

1. $\$ 10 \quad \$ 1.08^{9}$

Gallons of gas
.
$\$ 1.23^{9}$
$\qquad$
2. $\$ 20$ $\qquad$
3. $\$ 50$
$\$ .99^{9}$ $\qquad$
4. $\$ 14$
$\$ 1.35^{9}$ $\qquad$
5. $\$ 25$
$\$ 1.17^{9}$ $\qquad$
6. $\$ 5$
$\$ 1.08^{9}$ $\qquad$
7. $\$ 3$
$\$ .98^{9}$ $\qquad$
8. $\$ 12$
$\$ 1.01^{9}$ $\qquad$
9. $\$ 10$
$\$ 1.02^{9}$ $\qquad$
10. $\$ 15$
$\$ 1.42^{9}$ $\qquad$
11. $\$ 25$
$\$ 1.34^{9}$ $\qquad$
12. $\$ 22$
$\$ 1.02^{9}$ $\qquad$
13. $\$ 40$
$\$ 1.11^{9}$ $\qquad$
14. $\$ 26$
$\$ 1.07^{9}$ $\qquad$
15. $\$ 10$
$\$ 1.28^{9}$
16. $\$ 9$
$\$ 1.31^{9}$
$\qquad$
17. $\$ 16$
$\$ 1.11^{9}$

