

CC11

# PRACTICE

Tell whether the relationship is a proportional relationship. If so, give the constant of proportionality.

1.

<b>Number of Minutes</b>	3	4	5	6	7
<b>Number of Seconds</b>	180	240	300	360	420

2.

<b>Time (h)</b>	1	2	3	4	5
<b>Biking Distance (mi)</b>	12	26	36	44	50

3. Naomi reads 9 pages in 27 minutes, 12 pages in 36 minutes, 15 pages in 45 minutes, and 50 pages in 150 minutes.

4. A scuba diver descends at a constant rate of 8 feet per minute.

Write an equation for the relationship. Tell what the variables represent.

5. It takes Li 1 hour to drive 65 miles, 2 hours to drive 130 miles, and 3 hours to drive 195 miles.

6. There are 3.9 milligrams of calcium in each ounce of cooked chicken.

7.

<b>Gallons of Gasoline</b>	3	4	5	6
<b>Total Cost (\$)</b>	9.45	12.60	15.75	18.90

8.

<b>Cups of Batter</b>	2	6	8	12
<b>Number of Muffins</b>	5	15	20	30

Information on three car rental companies is given.

9. Write an equation that gives the cost  $y$  of renting a car for  $x$  days from Rent-All.

Rent-All				
<b>Days</b>	3	4	5	6
<b>Total Cost (\$)</b>	55.50	74.00	92.50	111.00

10. What is the cost per day of renting a car from A-1?

**A-1 Rentals**  
The cost  $y$  of renting a car for  $x$  days is given by  $y = 22.5x$ .

**Car Town**  
The cost of renting a car from us is just \$19.25 per day!

11. Which company offers the best deal? Why?