Name: _____

3-2 Additional Practice

Leveled Practice In **1–2**, fill in the boxes to solve.

1. A bike path is 12.5 miles. Dominic is 70% of the way to the end. How far is Dominic on the path?

$$\frac{p}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

$$p = \boxed{}$$

The distance Dominic has biked on the path, p, is $\boxed{}$ miles.

2. Of 350 solitaire games that Jay played, he won 154 times. What percent of the games did Jay win?

$$\frac{\boxed{}}{350} = \frac{n}{\boxed{}}$$

$$n = \boxed{}$$

Jay won $\boxed{}$ of the solitaire games he played.

3. **Construct Arguments** A regular tube of toothpaste costs $2.50 for 3.2 ounces. A travel size tube costs $1.00 for 1.2 ounces. Compare the prices and weights using percent to decide which is the better buy. © MP.3

4. **Reasoning** Kevin drove his car to a concert. His car can go 400 miles with a full tank of gas. He used 30% of the full tank of gas to get to the concert while traveling 60 miles per hour. How long did it take Kevin to get to the concert? © MP.2

5. Decide whether the following situation is looking for the percent, the part, or the whole:

The 14 compact cars sold by a dealer on Monday was 56% of the cars sold that day.

6. Investors buy a studio apartment for $240,000. Of this amount, they have a down payment of $60,000.

   a. Their down payment is what percent of the purchase price?

   b. What percent of the purchase price would a $12,000 down payment be?

7. When a volcano erupts, the height of the peak is reduced and the upper portion is removed. The height of a volcano after it erupted was 8,219.5 feet. This was 85% of the original height. What was the original height?

8. Mei has 60 milliliters of a solution that is 35% nitric acid. How many milliliters of nitric acid does the solution contain?

9. A perfect score in bowling is 300 points. You get a perfect score if you knock down 120 pins in 10 frames. What are the decimal value and the percent of the number of pins knocked down in relation to a perfect score?

10. Higher Order Thinking Nadia is a stockbroker. She earns 4% commission when she sells stocks. Last week, she earned $288 in commission.

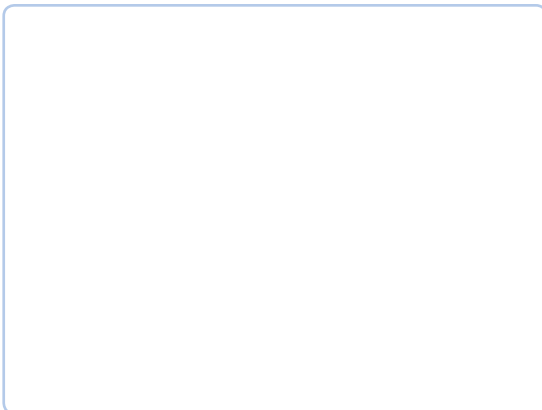 **a.** What was the total amount of her sales?

 b. If she earns $14,000 in commission during the year, what was the total value of stocks that Nadia sold?

© Assessment Practice

11. A large container has a maximum capacity of 64 ounces. The container is filled with 8 ounces less than its maximum capacity.

PART A

To what percent of its capacity is the large container filled?

PART B

Some liquid will be poured from a full 16-ounce container until it is filled to the same percent of its capacity as the large container in Part A. How many ounces of liquid must be poured from the full 16-ounce container? Explain.