NAME_____

Module 7 **Ratio, Proportion, and Percent**
Lesson 7 **Problem Solving with Percents**

Additional Practice 7.7

Find each percent of change. Tell if it is a percent of increase or decrease.

1. Original amount: 5
New amount: 1

2. Original amount: 44
New amount: 40

3. Original amount: 6
New amount: 18

4. Student enrollment at one school has increased 32% from its original enrollment of 300 students. What is the school's enrollment now?

5. The cost of a shirt was reduced from $20 to $14. Find the percent of decrease.

6. A movie theater is increasing the cost of all of its tickets. Complete the chart below.

Type of Ticket	Original Cost	Percent of Increase	New Cost
Child	$4	12.5%	
Adult	$8		$8.75
Senior Citizen		25%	$5

Find the amount of simple interest.

7. P: \$50
r: 10%
t: 3 years

8. P: \$250
r: 3.5%
t: 5 years

9. P: \$1,400
r: 7%
t: 9 months

10. Alex saved \$500 at an interest rate of 4% compounded monthly. Complete the table below to find the new amount after three months.

Month	Principal	*Prt*	Interest	New Amount
1	\$500	$\$500(0.04)\left(\frac{1}{12}\right)$	\$1.67	\$501.67
2	\$501.67			
3				

11. Diane will save \$2,000 for two years.

a. How much interest will she earn if the interest rate is 6.75% compounded annually?

b. How much *more* interest would she earn if the interest was compounded semiannually?