Name	Period

Notes 3-4 Percent of Change

Date

Unit 3

## Warm up:

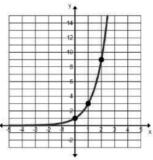
Write an equation to represent each pattern

1. Rachel is making cookies for her friends. Her mom had already made 24 cookies. After 3, 4, and 5 hours of baking, she had 69, 84, and 99 cookies, respectively.

2.

х	У
1	48
2	24
3	12
4	6

3.



## NOTES:

- 1. You are on a date at Chili's and they bring the check. The cost for your meal was \$34

b. What is the total cost (including the tip)? 
$$(6.80 + 34 = $40.80$$

Unit 3

2. You go on another date and leave a 15% tip. The total cost (including the tip) was \$46. Write an equation that represents this situation (let x be the cost of the meal without tip).

$$1x + (.15)x = 46$$
  
 $(1.15)x = 46$   
meal + tip = 46

3. Elizabeth is out shopping and the shirt sne wants originally cost and shopping and the shirt sne wants originally cost at check out? (Assume she is in Oregon where there is no sales tax) 40% = 443. Elizabeth is out shopping and the shirt she wants originally cost \$16.00. Luckily, it is on sale for 40%

4. Danielle bought a house for \$900,000, fixed it up, and sold it. She made 25% profit How much money did she make? How Much the house sold for

5. Ben has decided to sell his collection of baseball cards. He started with 80 cards and sold off 75% of the collection. How many cards does he have left?

$$80(1-.75)$$
  
 $90(.25) = 20$ 

To write a percent as a decimal, move the decimal place \_ divide by 100 For example,

20% becomes 3% becomes

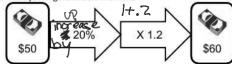
If percent increase then I multiply by

% is written as

Notes 3-4 Percent of Change Unit 3

In the figure below, record how to go from one amount to the other in the direction the arrows are pointing with a decimal in one arrow and a percent in the other arrow.

Here is an example of what your figure should look like:



You should fill out each arrow with the corresponding decimals and percents on the cards you used to solve this with your group.

