### 3 - 7 Percent of Change

# percent of change: an increase \*\* or a decrease represented by a

% of increase: new > originol

% of decrease: new < original



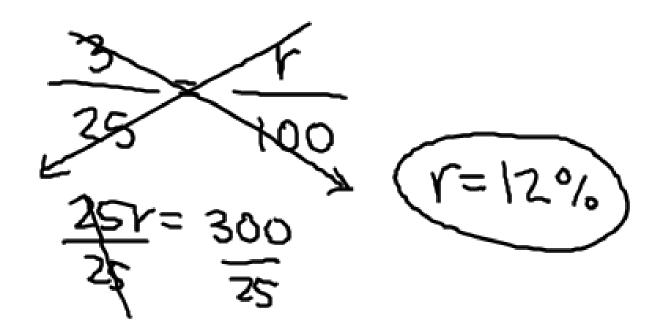
#### How do we find this??

$$\frac{\text{change}}{\text{original}} = \frac{r}{100}$$

### State whether each is a percent of increase or decrease. Then find each percent of change.

Ex: original: 25 increase

new: 28



### State whether each is a percent of increase or decrease. Then find each percent of change.

Ex: original: 30

new: 12

decrease

$$\frac{30r}{30} = 1800$$

# Ex: NFL fields are 120 yd long. CFL fields are 25% longer. What is the length of a CFL field?

$$\frac{1-120}{120} = \frac{25}{120}$$

$$1001 - 12000 = 3.000$$

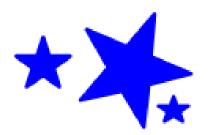
$$+ 17.000 + 12.000$$

$$\frac{1001 = 15,000}{100} = 150 \text{ yol}$$

## Ex: A concert ticket costs \$45. If the sales tax is 6.25%, what is the total cost of the ticket?

$$-0.25\%$$
 of  $45$   
 $-0.0025$   $-45 = 2.8125$ 

Ex: A sweater is on sale for 35% off the original price. If the original price of the sweater is \$38, what is the discounted price?



#### Homework:

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