Sec 4-4: Percent Change

1. Last week you looked at a TV in the store and the price was $400. For a sale this weekend the store dropped the price by $50. What was the percent reduction?

2. The population of a city in 1999 was 12,500. If the population went up by 400 people in 2010 find the percent increase.

When the final value is more than the original value then
final amount - orig amount > 0

and the percent change is called a
PERCENT INCREASE

When the final value is less than the original value then
final amount - orig amount <0

and the percent change is called a
PERCENT DECREASE

3. The amount of water in the bucket under the leak in the roof at 5:00pm was 12 quarts. At 6:00pm there was 14 quarts. What was the percent increase in the amount of water in the bucket in that one hour?

Amount of change = Final amt - Orig amt

$$\text{Percent Change} = \frac{\text{Amount of change}}{\text{Original Amount}} \times 100$$

Find the percent change for each. Describe it as an increase or a decrease. Round to the nearest tenth of a percent.

1. From 48ft to 38ft

2. From $275 to $380