

## Section 8.1C: Percent and Change

Finding the percent increase or percent decrease

1. Find the fraction for the percent increase or decrease:

$$\frac{\text{amount of increase/decrease}}{\text{original amount}}$$

2. Express the fraction as a percent

### Example 1:

a) Find the percent increase if 6 is increased to 10.

b) Find the percent decrease if 10 is decreased to 6.

### Example 2:

A television regularly sells for \$940. The sale price is \$611. Find the percent decrease of the sale price from the regular price.

### Example 3:

An episode of a television series had an audience of 12% versus its usual 10%. What is the percent increase for this episode?

### Example 4:

Suppose you paid \$1200 in taxes. During year 1, taxes decrease by 20%. During year 2, taxes increase by 20%

a) What do you pay in taxes for year 2?

b) How do your taxes for year 2 compare with what you originally paid, namely \$1200? If the taxes are not the same, find the percent increase or decrease.

| Year | Tax Paid the Year Before | % change | Taxes Paid this year |
|------|--------------------------|----------|----------------------|
| 1    | 1200                     |          |                      |
| 2    |                          |          |                      |

**HW: Section 8.1 #61-68 all**