**ALGEBRA I**

**SECTION 4.4A**

**PERCENT OF CHANGE**

**Percent of Change -**

**Examples.**

Find the percent of change for the following:

  

The price on a pair of pants decreased from $32.95 to $28.95. Find the percent of change to the nearest 10th.

Between 1940 and 1980, the federal budget increased from $9.5 billion to $725.3 billion. What was the percent of increase?

In 1985, the average price for gasoline was $1.20 per gallon. In 2000, the average price was $1.56 per gallon. Find the percent of change.

During 2008, the average price for gasoline was $3.52 per gallon. Find the percent of change from 1985.

**GREATEST POSSIBLE ERROR**

**Greatest possible error (GPE)** –

**Examples:**

**Measurement Error**

4 lbs. ½ lb

4 in ½ in

6.7 km 0.05 km

**Example:** Find the greatest possible error in a 25 foot measurement.

**PERCENT ERROR**

**Percent Error -**

**Find the Percent Error**

168 inches

5 feet