

## Percent Error

## Examples:

Sam measured her pop to be 12 ounces, it was actually 14 ounces. Find her percent error.

$$\frac{14-12}{14} = \frac{2}{14} \times 100 = 14\%$$

Joe guessed there were 100 marbles in a jar. There were actually 132. What's the percent error?

$$\frac{132-100}{132} = \frac{32}{132} \times 100 = 24\%$$

## Formulas:

$$\frac{\text{Actual-Measured}}{\text{Actual}} \times 100$$

OR

$$\frac{\text{Actual-Estimate}}{\text{Actual}} \times 100$$

Oct 29-2:29 PM

## Percent Error Practice:

There were 455 seeds in the great pumpkin. Nolan estimated there were 454. Find his percent error.

$$\frac{455-454}{455} = \frac{1}{455} \times 100 = 0.2\%$$

Oct 30-10:20 AM

Mrs. Kane assumes she will spend \$75 each week grocery shopping. This week, she actually spent, \$85.45. Find her percent error.

$$\frac{85.45 - 75}{85.45} = \frac{10.45}{85.45} \times 100 = \boxed{12\%}$$

Oct 30-10:22 AM

Peyton Estimated her height to be 58 inches. She was actually 56.5 inches. Find her percent error.

$$\frac{56.5 - 58}{56.5} = \frac{1.5}{56.5} \times 100 = 2.6$$
$$\boxed{3\%}$$

Oct 30-10:26 AM