

Formulas:

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

OR

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

$$\frac{\text{Error}}{\text{Actual}} = \frac{\%}{100}$$

Percent Error

Examples:

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

A: 14
M: 12
E: 2

$$\frac{2}{14} \times 100 = 14.3\%$$

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

A: 132
G: 100
E: 32

$$\frac{32}{132} \times 100 = 24.2\%$$

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Percent ERROR Practice

① Actual: 61 inches
Measured: 59.5 in.
Error: 1.5

$$\frac{1.5}{61} \times 100 = 2.5\%$$

② Actually: 6 min.
Estimated: 5 min.
Error: 1

$$\frac{1}{6} \times 100 = 16.7\%$$

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