

NAME: \_\_\_\_\_

# PERCENTAGE OF ERROR

Read carefully, each problem presents an estimated value and a real one. Use the percentage error formula. Write your answer, include your answer as a percentage to two decimal places..

$$\text{Percent Error} = \frac{\text{Actual Value} - \text{Estimated Value}}{\text{Actual Value}} \times 100\%$$

- 1) A dietitian estimated a meal to contain 500 calories, but lab analysis showed it actually contained 550 calories.

**Solution:**

Percent Error:

- 2) An engineer estimated the production of 200 widgets per day, but the factory only produced 185 widgets per day.

**Solution:**

Percent Error:

- 3) A real estate appraiser estimated a property value at \$300,000, but the property sold for \$285,000.

**Solution:**

Percent Error:

- 4) A teacher estimated that 40 students would pass the exam, but actually 35 students passed.

**Solution:**

Percent Error:

- 5) A fitness app predicted a runner would finish a marathon in 4 hours, but he finished in 4 hours and 30 minutes.

**Solution:**

Percent Error:

How Did You Do? 😊 😐 😞