

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 fitness tracker estimated that a user walked 10,000 steps in a day, but the actual count was 9,500 steps.

Solution:

Percent Error:

- 2) A company predicted that it would receive 400 responses to a survey, but it only received 380 responses.

Solution:

Percent Error:

- 3) An architect estimated the cost of a building project at \$1,500,000, but the actual cost came out to be \$1,450,000.

Solution:

Percent Error:

- 4) A chef estimated that 250 guests would attend a banquet, but only 240 guests showed up.

Solution:

Percent Error:

- 5) A student estimated that a solution would have a pH of 7.4, but a precise measurement showed it was 7.1.

Solution:

Percent Error:

How Did You Do?

