

Percent of Error

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

1. John mistakenly found the volume of a container to be 62 liters. However, when checked for accuracy, the real volume was only 50 liters. What was the percent error?
2. The clerk estimated the weight of a box was 20 lbs. When the box was placed on the scale, the actual weight was 25 lbs., what was the percent error?
3. On a 50-question test, Alicia thought should get 40 questions answered correctly. When the test was graded, she found out she earned a 100%, what was her percent error in estimating her grade?
4. Robert measure the length of the distance from home plate to second base. He measures 86 feet. The actual distance from home plate to second base is 90 feet, what is percent error?
5. Bill predicted he would shoot a 65 on a round of golf at a relatively easy golf course. When he finished and added his scores, he was surprised to see he shot a 60. What was his percent error?
6. When determining the weight of a small freight truck, the driver estimated the weight to be 18,000 lbs. His percent error was 10%. What are the two possible values for the actual weight?
7. Esmeralda predicted her bowling average for the tournament would be 125, her percent error was 8%. What are the two possible averages she could have had for the tournament?
8. Carlos estimated he had been running for 40 minutes. When he finally stopped running and looked at the time, he found he had only ran for 32 minutes, what was his percent error?
9. Susan estimated a coin will land heads 400 times out of 500 flips. Apparently, she didn't do well in probability or her coin was weighted. The coin actually landed 275 times on heads. What her percent error?
10. In playing roulette, George predicted the marble would land on "red" 18 times in 40 spins of the wheel. The marble landed on red 20 times, what was his percent error?