## Percent Error and Percent Increase - Step-by-Step Lesson

## **Lesson 1 Percent Problem:**

1. Alan needs to purchase a bed sheet for his bedroom. Alan measured the bed as 7 ft. The actual measurement was 6.5 ft. What is Alan's percent error?



## **Explanation:**

When comparing an experimental quantity, E, with a theoretical quantity, T, which is considered the "correct" value. The percent error is the absolute value of the difference divided by the "correct" value times 100.

% Error = 
$$\frac{7 - 6.5}{6.5}$$
 x 100

%Error = 
$$\frac{.5 \times 100}{6.5}$$