

Name: _____

Date: _____

Practice - Percent Error

Calculate the percent error for each example.

1. A student calculates the density of a rock to be 2.2 g/ml and the actual value is 2.7 g/ml. What is the student's percent error?
2. A student determines the volume of a cubic crystal to be 7.6 cubic centimeters. The correct volume of the crystal is 7.5 cubic centimeters. Find the student's percent error.
3. A student measures the volume of a piece of rock to be 25 grams and the accepted value is 19 grams. What is the percent error?
4. A student determined the volume of an object to be 8.6 cm. What was her percentage error if the correct volume of the object is 8.0 cm?
5. What would the percentage error be if a person predicted that there were 38 jelly beans in a container, but when they were counted, it was found that there were 40 beans in the bottle.
6. Samantha measured the volume of her soda before she drank it for her midmorning snack. She measured the volume of the 12 oz. bottle to be 14 oz. What is her percent error?
7. Clyde Clumsy was directed to weigh a 500 g mass on the balance. After diligently goofing off for ten minutes, he quickly weighed the object and reported 458 g. What is the percent error?
8. Henry Heavy foot was just arrested for speeding by Officer O'Rourke for traveling 65 mph in a 55 mph zone. Henry claimed his speedometer said 55 mph not 65 mph. What is the speedometer's percent error?