Name _____ Period _____ Score _____

Free Response HW 1: Percentage Error

Date _____

Directions: Answer questions 1 through 5 on your knowledge of earth science. For each questions follow the steps listed below.

STEP 1: Write the equation

STEP 2: Substitute the data into the equation using proper units

STEP 3: Solve the equation using proper units and rounding to the tenths

1. If Johnny found the mass of a granite sample to be 196.3 grams and the accepted value is 199.7 grams, what is Johnny's percentage error?

2. Tammy guessed the number of students in the auditorium to be 363, if the actual number of students in the auditorium was 781 what was Tammy's percentage error?

3. If Amanda determined the mass of a quartz sample to be 48.3 grams and the actual mass was 48.1 grams, what is Amanda's percentage error?

4. If Adam determined the volume of an object to be 8.6 cm^3 and the actual volume of the object was 8.0cm^3, what was his percentage error?

5. A student measures the mass of an object to be 127.5 grams. If the actual mass was 125 grams, what was the percentage error?