Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Homework # \_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_

Directions: Answer questions 1 through 5 on your knowledge of earth science. For each question 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?

|  |
| --- |
|  |

1. 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?

|  |
| --- |
|  |

1. 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?

|  |
| --- |
|  |

1. If Adam determined the volume of an object to be 8.6 cm3 and the actual volume of the object was 8.0cm3, what was his percentage error?

|  |
| --- |
|  |

1. 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?

|  |
| --- |
|  |