Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_

**1.1a Describing Data With Sets of Numbers**

Classify the number as one or more of the following; natural number, integer, rational number, or real number.

1. 33,000 ( Number of Subway franchises in 2010)
2. 3.8 (Percent of mathematics majors who go on to obtain a Ph. D)
3. 4 ( Pounds of garbage the average person produces each day0
4. (Fraction of 18- to 19- year old males who are married in the United States)
5. 2.57 (Average number of people per household in 2009)
6. (Distance in feet from home plate to second base in baseball.)
7. (Wind chill when the temperature is and the wind speed is 40 miles per hour)

Classify each real number as one or more of the following: natural number, whole number, integer, rational number, or irrational number.

For the measured quantity, state the set of numbers that is most appropriate to describe it. Choose from the natural numbers, integers, or rational numbers. Explain your answer.

1. Shoe sizes
2. Populations of states
3. Speed limits
4. Gallons of gasoline
5. Temperatures given in a winter weather forecast in Montana
6. Number of songs sold on iTunes

Calculate the average of the list of numbers. Classify the result as a natural number, an integer, or a rational number.

1. 3, 4, 5, 8
2. 5, 8, 10, 23, 9
3. 3.2, 7.5, 8.1, 12.8, 13.4
4. 121.5, 45.7, 99.3, 45.9
5. 99.88, 39.11, 85.67, 23.86, 19.11