Math 7 Period _____   Name_____
7.8.2 Homework Set   Date_____

1. The likelihood that Han makes a free throw in basketball is 60%. The likelihood that he makes a 3-point shot is 0.345. Which event is more likely, Han making a free throw or making a 3-point shot? Explain your reasoning.

2. Different events have the following likelihoods. Sort them from least to greatest:

    a. 60%

    b. 8 out of 10

    c. 0.37

    d. 20%

    e. $\dfrac{5}{6}$

3. There are 25 prime numbers between 1 and 100. There are 46 prime numbers between 1 and 200. Which situation is more likely? Explain your reasoning.

    a. A computer produces a random number between 1 and 100 that is prime.
    b. A computer produces a random number between 1 and 200 that is prime.