

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

**Definition:** The set of all possible outcomes in a random experiment is called the

\_\_\_\_\_

Describe the sample space for the following random experiments:

1. Flipping a fair coin twice.
2. Three six sided dice are rolled and the sum is computed.
3. Choosing 2 marbles from a bag with 2 red marbles, 2 blue marble, and 1 green marble.

**Definition:** The **fundamental counting principle** says that if there  $n$  outcomes from one event and  $m$  outcomes from the another, then there are

total possible outcomes. \_\_\_\_\_





