

Intro to Probability

7th Grade Math

Name: _____

Basic Probability Notation

$$P (\quad) = \underline{\hspace{2cm}}$$

Example:

1. What types of shoes are you wearing today?

Tennis shoes =

Boots =

Other =

Total =

2. Find...

a. $P(\text{boots}) =$

b. $P(\text{tennis shoes}) =$

c. $P(\text{other}) =$

3. Based on this information, if Mr. Moundros sees 110 students today, how many will be wearing boots?

Theoretical Probability:

Experimental Probability:

Practice Using Experimental and Theoretical Probability

1. Rolling a 6-sided dice 10 times.
 - a. What is the theoretical probability of rolling the #5?

 - b. What is the experimental probability of rolling the #5?

 - c. What is the theoretical probability of rolling a prime number?

 - d. What is the experimental probability of rolling a prime number?

2. Drawing from a deck of cards 10 times.
 - a. What is the theoretical probability of drawing a heart?

 - b. What is the experimental probability of drawing a heart?

 - c. What is the theoretical probability of drawing a king?

 - d. What is the experimental probability of drawing a king?