NAME________AMAN

Introduction to Probability

Basic Probability Notation

² (

) in the second

Example:

1. What types of shoes are you wearing today?

Tennis shoes =

Sandals .:

Other . =

Total =

- 2. Find...
 - a. P (sandals) =
 - b. P (tennis shoes) =
 - c. P (other) =
- 3. Based on this information, if Mrs. Thelen sees 110 students today, how many will be wearing sandals?

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?

16

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

Answers will vary

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

 $\frac{9}{6} = \frac{2}{3}$

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

Answers will vary

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

13 = 1

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

Answers will vary

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

4 = 1 52 = 13

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

Answers will vary