Name _____



Probability Checkpoint

Directions: Complete each question. Simplify fractions when possible.

1 A probability of 0 describes an event that is:

A. Certain
B. Impossible
C. Likely
D. Equally likely

2 Fill in the blank: A probability close to 1 describes an event that is _____.

3 Which probability represents an equally likely chance of happening or not happening?

A. 0
B. 1/4
C. 1/2
D. 1

4 A spinner has equal sections labeled A, B, C, and D. Write the sample space.

_____

5 A standard number cube is rolled. What is P(rolling a number greater than 4)?

_____

6 A bag contains 3 red and 7 blue counters. What is the theoretical probability of choosing red?

_____

7 A coin is flipped 30 times and lands on heads 18 times. What is the experimental probability of heads?

_____

8 Identify the type of probability in this statement: "Based on 40 spins, the spinner landed on green 12 times."

Theoretical or experimental? _____

9 A spinner has a 1/4 probability of landing on yellow. About how many times should yellow occur in 80 spins?

_____

10 A fair coin is flipped twice. How many outcomes are in the sample space?

A. 2
B. 3
C. 4
D. 6

11 A fair coin is flipped and a spinner numbered 1, 2, and 3 is spun. What is P(tails and 2)?

_____

12 Which event is certain?

A. Rolling a 7 on a standard number cube
B. Flipping a fair coin and getting heads
C. Rolling a number less than 7 on a standard number cube
D. Choosing red from a bag with equal numbers of red and blue counters

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