

Name: _____

Probability Practice: Pair of Dice

If two 6-sided dice are rolled at random...



Directions: Expressed as a fraction in lowest terms, answer each of the following.

- 1.) What is the probability of rolling a 2? _____
- 2.) What is the probability of rolling a 3? _____
- 3.) What is the probability of rolling a 5? _____
- 4.) What is the probability of rolling a 1? _____
- 5.) What is the probability of rolling an odd number? _____
- 6.) What is the probability of rolling the same number on both dice? _____
- 7.) What is the probability of rolling two numbers whose **sum** is 10? _____
- 8.) What is the probability of rolling two numbers whose **product** is 12? _____
- 9.) What is the probability of **not** rolling a multiple of 4? _____
- 10.) What is the probability of rolling two numbers that have a difference of 2? _____
- 11.) What is the probability of rolling two numbers whose **difference** is 3? _____
- 12.) What is the probability of rolling a double-digit odd number? _____

ANSWER KEY

- 1.) What is the probability of rolling a 2? $\frac{1}{36}$
- 2.) What is the probability of rolling a 3? $\frac{1}{18}$
- 3.) What is the probability of rolling a 5? $\frac{1}{9}$
- 4.) What is the probability of rolling a 1? 0
- 5.) What is the probability of rolling an odd number? $\frac{1}{2}$
- 6.) What is the probability of rolling the same number on both dice? $\frac{1}{6}$
- 7.) What is the probability of rolling two numbers whose **sum** is 10? $\frac{1}{12}$
- 8.) What is the probability of rolling two numbers whose **product** is 12? $\frac{1}{9}$
- 9.) What is the probability of **not** rolling a multiple of 4? $\frac{3}{4}$
- 10.) What is the probability of rolling two numbers that have a difference of 2? $\frac{2}{9}$
- 11.) What is the probability of rolling two numbers whose **difference** is 3? $\frac{1}{6}$
- 12.) What is the probability of rolling a double-digit odd number? $\frac{1}{18}$