Name: _____

Probability with Number Cubes and Marbles

Find each probability. Write it as a fraction in simplest form.

1. A fair 6-sided number cube is rolled. What is the probability of rolling a number greater than 4?

   Answer: _____

2. A bag has 2 blue, 5 yellow, 5 green marbles. One is picked at random. What is P(green)?

   Answer: _____

3. A fair 6-sided number cube is rolled. What is the probability of rolling a prime number?

   Answer: _____

4. A bag has 1 green, 1 blue, 2 red marbles. One is picked at random. What is P(not blue)?

   Answer: _____

5. A bag has 7 green, 7 blue, 4 red marbles. One is picked at random. What is P(blue)?

   Answer: _____

6. A fair 6-sided number cube is rolled. What is the probability of rolling an even number?

   Answer: _____

7. A bag has 6 blue, 1 green, 7 yellow marbles. One is picked at random. What is P(not green)?

   Answer: _____

8. A fair 6-sided number cube is rolled. What is the probability of rolling a number less than 5?

   Answer: _____

9. A bag has 2 red, 3 blue, 1 green marbles. One is picked at random. What is P(blue)?

   Answer: _____

10. A bag has 2 green, 1 blue, 9 red marbles. One is picked at random. What is P(not blue)?

    Answer: _____

Name: **ANSWER KEY**

Probability with Number Cubes and Marbles

Find each probability. Write it as a fraction in simplest form.

1. A fair 6-sided number cube is rolled. What is the probability of rolling a number greater than 4?

Answer: $\frac{1}{3}$

2. A bag has 2 blue, 5 yellow, 5 green marbles. One is picked at random. What is P(green)?

Answer: $\frac{5}{12}$

3. A fair 6-sided number cube is rolled. What is the probability of rolling a prime number?

Answer: $\frac{1}{2}$

4. A bag has 1 green, 1 blue, 2 red marbles. One is picked at random. What is P(not blue)?

Answer: $\frac{3}{4}$

5. A bag has 7 green, 7 blue, 4 red marbles. One is picked at random. What is P(blue)?

Answer: $\frac{7}{18}$

6. A fair 6-sided number cube is rolled. What is the probability of rolling an even number?

Answer: $\frac{1}{2}$

7. A bag has 6 blue, 1 green, 7 yellow marbles. One is picked at random. What is P(not green)?

Answer: $\frac{13}{14}$

8. A fair 6-sided number cube is rolled. What is the probability of rolling a number less than 5?

Answer: $\frac{2}{3}$

9. A bag has 2 red, 3 blue, 1 green marbles. One is picked at random. What is P(blue)?

Answer: $\frac{1}{2}$

10. A bag has 2 green, 1 blue, 9 red marbles. One is picked at random. What is P(not blue)?

Answer: $\frac{11}{12}$