

Probability

Directions: Solve each problem. Show your work in the space provided.

- 1.) A bag contains 5 red marbles, 3 blue marbles, and 2 green marbles. What is the probability of randomly selecting a blue marble?

- 2.) A spinner is divided into 8 equal sections numbered 1 through 8. What is the probability of spinning an even number?

- 3.) If a fair six-sided die is rolled, what is the probability of rolling a prime number?

- 4.) A standard deck of cards contains 52 cards, including 4 suits (hearts, diamonds, clubs, spades) with 13 cards each. What is the probability of drawing a heart?

- 5.) In a school cafeteria, 60% of students prefer pizza, 30% prefer burgers, and the rest prefer sandwiches. If there are 200 students in total, how many students prefer sandwiches?

- 6.) If you toss a fair coin, what is the probability of getting heads?

- 7.) If two fair six-sided dice are rolled, what is the probability that the sum of the numbers rolled is 7?

- 8.) In a certain region, it rains on 30% of the days. If you randomly select a day from the year, what is the probability that it will rain?

