

Name Key
Date _____
Class _____

10.2B Practice: Probability

Determine whether each event is impossible, unlikely, as likely as not, likely, or certain.

1. rolling an even number on a number cube labeled 1 through 6 even chance / as likely as not
2. picking a card with a vowel on it from a box of cards in which each letter of the alphabet is written on a card unlikely
3. spinning a number greater than 2 on a spinner with 10 equal sections marked 1 through 10 likely
4. drawing a red marble from a bag of black, blue, and green marbles impossible
5. flipping a coin and getting heads or tails certain
6. rolling a number that is less than three, 5 times in a row on a number cube labeled 1 through 6 unlikely

Solve.

7. A bag contains 3 green marbles, 7 blue marbles, and 2 black marbles. What is the probability of not picking a green marble? $\frac{9}{12} = \frac{3}{4} = 0.75 = 75\%$
8. A spinner has 8 equal sections labeled 1 through 8. What is the probability of spinning a number that is not greater than or equal to 6? $\frac{5}{8} = 0.625 = 62.5\%$
9. The probability of randomly drawing a red card from a bag that contains red, blue, and green cards is $\frac{3}{10}$. What is the probability of not drawing a red card? $\frac{7}{10} = 0.7 = 70\%$
10. Myra almost always spends at least 45 minutes on the treadmill. If Myra got on the treadmill at 5:20 p.m., what is the likelihood that she will still be on the treadmill at 6:00? likely