

LESSON

**8-1**

**Practice C**

*Introduction to Probability*

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

1. rolling a number less than 4 on a number cube labeled 1 through 6 \_\_\_\_\_
2. picking a card with a multiple of 3 from a box with 10 number cards numbered 1 through 10 \_\_\_\_\_
3. drawing a red marble from a bag of 3 blue marbles, 8 red marbles, and 2 green marbles \_\_\_\_\_
4. rolling a number cube that has sides labeled 2, 4, 6, 8, 10, and 12, and getting an even number \_\_\_\_\_
5. picking two cards that have a sum of greater than 10 from a set of number cards in which there are three 4's, five 3's, and two 5's \_\_\_\_\_
6. drawing a yellow marble from a bag of 5 blue marbles, 2 green marbles, and 7 yellow marbles \_\_\_\_\_

**Solve.**

7. A spinner has 16 sections labeled 1 through 16. The probability of spinning a number that is less than or equal to 10 is  $\frac{5}{8}$ . What is the probability of spinning a number that is not less than or equal to 10? \_\_\_\_\_
8. The probability of randomly picking a striped marble from a bag that contains red, blue, and striped marbles marbles is  $\frac{5}{12}$ . What is the probability of not picking a striped marble? \_\_\_\_\_
9. When Sam studies for 1 hour or more, he almost always gets at least a B on his math test. Sam studies from 8:45 to 10:00. Estimate the probability that Sam will get a B on his quiz. \_\_\_\_\_
10. A bag contains 12 black cards and 11 red cards. Julia randomly draws 2 black cards and does not replace them. Will Julia be more likely to draw a black card than a red card on her next draw? Explain.  
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