

# Probability Basics

Grades 7-8 • Calculating basic probability from common scenarios

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. A bag contains 7 red balls, 6 blue balls, and 3 green balls. What is the probability of drawing a green ball?

Answer: \_\_\_\_\_

2. What is the probability of rolling a 2 on a standard six-sided die?

Answer: \_\_\_\_\_

3. A bag contains 5 red balls, 6 blue balls, and 2 green balls. What is the probability of drawing a blue ball?

Answer: \_\_\_\_\_

4. A bag contains 6 red balls, 5 blue balls, and 2 green balls. What is the probability of drawing a blue ball?

Answer: \_\_\_\_\_

5. What is the probability of rolling a 1 on a standard six-sided die?

Answer: \_\_\_\_\_

6. A bag contains 7 red balls, 7 blue balls, and 8 green balls. What is the probability of drawing a blue ball?

Answer: \_\_\_\_\_

7. What is the probability of rolling a 6 on a standard six-sided die?

Answer: \_\_\_\_\_

8. What is the probability of rolling a 3 on a standard six-sided die?

Answer: \_\_\_\_\_

9. A bag contains 4 red balls, 2 blue balls, and 6 green balls. What is the probability of drawing a red ball?

Answer: \_\_\_\_\_

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**10.** What is the probability of drawing a ace from a standard 52-card deck?

Answer: \_\_\_\_\_

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## Answer Key

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|-----|---|-------------|
| 1.  | A bag contains 7 red balls, 6 blue balls, and 3 green balls. What is the probability of drawing a green ball? | <b>3/16</b> |
| 2.  | What is the probability of rolling a 2 on a standard six-sided die?   | <b>1/6</b>  |
| 3.  | A bag contains 5 red balls, 6 blue balls, and 2 green balls. What is the probability of drawing a blue ball?  | <b>6/13</b> |
| 4.  | A bag contains 6 red balls, 5 blue balls, and 2 green balls. What is the probability of drawing a blue ball?  | <b>5/13</b> |
| 5.  | What is the probability of rolling a 1 on a standard six-sided die?   | <b>1/6</b>  |
| 6.  | A bag contains 7 red balls, 7 blue balls, and 8 green balls. What is the probability of drawing a blue ball?  | <b>7/22</b> |
| 7.  | What is the probability of rolling a 6 on a standard six-sided die?   | <b>1/6</b>  |
| 8.  | What is the probability of rolling a 3 on a standard six-sided die?   | <b>1/6</b>  |
| 9.  | A bag contains 4 red balls, 2 blue balls, and 6 green balls. What is the probability of drawing a red ball?   | <b>1/3</b>  |
| 10. | What is the probability of drawing a ace from a standard 52-card deck?  | <b>1/13</b> |