Name: _____

Probability of Independent Events

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

1. Bag A has 3 red and 2 blue chips. Bag B has 1 red and 5 blue chips. One chip is drawn from each bag. What is P(red, red)?

   Answer: _____

2. Bag A has 4 red and 5 blue chips. Bag B has 2 red and 2 blue chips. One chip is drawn from each bag. What is P(red, red)?

   Answer: _____

3. Bag A has 3 red and 5 blue chips. Bag B has 4 red and 1 blue chips. One chip is drawn from each bag. What is P(red, red)?

   Answer: _____

4. Bag A has 2 red and 6 blue chips. Bag B has 5 red and 3 blue chips. One chip is drawn from each bag. What is P(red, red)?

   Answer: _____

5. Bag A has 4 red and 3 blue chips. Bag B has 5 red and 3 blue chips. One chip is drawn from each bag. What is P(red, red)?

   Answer: _____

6. Bag A has 4 red and 2 blue chips. Bag B has 5 red and 3 blue chips. One chip is drawn from each bag. What is P(red, red)?

   Answer: _____

7. Bag A has 5 red and 5 blue chips. Bag B has 3 red and 1 blue chips. One chip is drawn from each bag. What is P(red, red)?

   Answer: _____

8. Bag A has 2 red and 6 blue chips. Bag B has 1 red and 1 blue chips. One chip is drawn from each bag. What is P(red, red)?

   Answer: _____

9. Bag A has 4 red and 4 blue chips. Bag B has 5 red and 3 blue chips. One chip is drawn from each bag. What is P(red, red)?

   Answer: _____

10. Bag A has 5 red and 3 blue chips. Bag B has 1 red and 2 blue chips. One chip is drawn from each bag. What is P(red, red)?

    Answer: _____

Name: **ANSWER KEY**

Probability of Independent Events

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

1. Bag A has 3 red and 2 blue chips. Bag B has 1 red and 5 blue chips. One chip is drawn from each bag. What is P(red, red)?

Answer: $\frac{1}{10}$

2. Bag A has 4 red and 5 blue chips. Bag B has 2 red and 2 blue chips. One chip is drawn from each bag. What is P(red, red)?

Answer: $\frac{2}{9}$

3. Bag A has 3 red and 5 blue chips. Bag B has 4 red and 1 blue chips. One chip is drawn from each bag. What is P(red, red)?

Answer: $\frac{3}{10}$

4. Bag A has 2 red and 6 blue chips. Bag B has 5 red and 3 blue chips. One chip is drawn from each bag. What is P(red, red)?

Answer: $\frac{5}{32}$

5. Bag A has 4 red and 3 blue chips. Bag B has 5 red and 3 blue chips. One chip is drawn from each bag. What is P(red, red)?

Answer: $\frac{5}{14}$

6. Bag A has 4 red and 2 blue chips. Bag B has 5 red and 3 blue chips. One chip is drawn from each bag. What is P(red, red)?

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

7. Bag A has 5 red and 5 blue chips. Bag B has 3 red and 1 blue chips. One chip is drawn from each bag. What is P(red, red)?

Answer: $\frac{3}{8}$

8. Bag A has 2 red and 6 blue chips. Bag B has 1 red and 1 blue chips. One chip is drawn from each bag. What is P(red, red)?

Answer: $\frac{1}{8}$

9. Bag A has 4 red and 4 blue chips. Bag B has 5 red and 3 blue chips. One chip is drawn from each bag. What is P(red, red)?

Answer: $\frac{5}{16}$

10. Bag A has 5 red and 3 blue chips. Bag B has 1 red and 2 blue chips. One chip is drawn from each bag. What is P(red, red)?

Answer: $\frac{5}{24}$