# mobius

Math worksheet on *'Probability - Shapes, Two Sets of Two Shapes, Two Colors - Pick Two by Shape, To Fraction Equation (Level 1)'*. Part of a broader unit on *'Probability and Counting - Multiple Events - Intro'*

Learn online:

app.mobius.academy/math/units/probability_counting_multiple_event_intro/

**1** What is the equation for the chance of drawing a square at random from both bags?

| a | b | c |
|---|---|---|
| $\dfrac{1}{7} \cdot \dfrac{3}{3}$ | $\dfrac{2}{5} \cdot \dfrac{2}{5}$ | $\dfrac{2}{6} \cdot \dfrac{4}{11}$ |

| d | e | f |
|---|---|---|
| $\dfrac{2}{3} \cdot \dfrac{5}{14}$ | $\dfrac{2}{6} \cdot \dfrac{1}{7}$ | $\dfrac{1}{2} \cdot \dfrac{2}{6}$ |

**2** What is the equation for the chance of drawing a square at random from both bags?

| a | b | c |
|---|---|---|
| $\dfrac{5}{3} \cdot \dfrac{1}{10}$ | $\dfrac{3}{3} \cdot \dfrac{1}{10}$ | $\dfrac{4}{6} \cdot \dfrac{1}{5}$ |

| d | e | f |
|---|---|---|
| $\dfrac{2}{8} \cdot \dfrac{1}{10}$ | $\dfrac{3}{4} \cdot 0$ | $\dfrac{1}{8} \cdot \dfrac{1}{6}$ |

**3** What is the equation for the chance of drawing a circle at random from both bags?

| a | b | c |
|---|---|---|
| $\dfrac{3}{12} \cdot \dfrac{9}{6}$ | $\dfrac{7}{11} \cdot \dfrac{4}{7}$ | $\dfrac{3}{5} \cdot \dfrac{6}{6}$ |

| d | e | f |
|---|---|---|
| $\dfrac{7}{10} \cdot \dfrac{4}{14}$ | $\dfrac{5}{9} \cdot \dfrac{4}{6}$ | $\dfrac{5}{13} \cdot \dfrac{12}{3}$ |

**4** What is the equation for the chance of drawing a square at random from both bags?

| a | b | c |
|---|---|---|
| $\dfrac{2}{8} \cdot \dfrac{1}{10}$ | $\dfrac{5}{9} \cdot \dfrac{1}{11}$ | $\dfrac{7}{10} \cdot \dfrac{2}{6}$ |

| d | e | f |
|---|---|---|
| $\dfrac{1}{10} \cdot \dfrac{3}{5}$ | $\dfrac{3}{4} \cdot \dfrac{1}{4}$ | $\dfrac{7}{7} \cdot \dfrac{3}{3}$ |

**5** What is the equation for the chance of drawing a circle at random from both bags?

| a | b | c |
|---|---|---|
| $\dfrac{2}{3} \cdot \dfrac{4}{7}$ | $\dfrac{5}{6} \cdot \dfrac{5}{9}$ | $\dfrac{2}{2} \cdot \dfrac{3}{3}$ |

| d | e | f |
|---|---|---|
| $\dfrac{3}{5} \cdot \dfrac{1}{6}$ | $\dfrac{5}{6} \cdot \dfrac{2}{4}$ | $\dfrac{5}{4} \cdot \dfrac{3}{7}$ |

**6** What is the equation for the chance of drawing a square at random from both bags?

| a | b | c |
|---|---|---|
| $\dfrac{2}{4} \cdot \dfrac{5}{9}$ | $\dfrac{2}{13} \cdot \dfrac{2}{14}$ | $\dfrac{3}{7} \cdot \dfrac{1}{6}$ |

| d | e | f |
|---|---|---|
| $\dfrac{1}{3} \cdot \dfrac{7}{15}$ | $\dfrac{3}{15} \cdot \dfrac{3}{10}$ | $\dfrac{1}{6} \cdot \dfrac{3}{6}$ |

**7** What is the equation for the chance of drawing a square at random from both bags?

| a | b | c |
|---|---|---|
| $\dfrac{1}{14} \cdot \dfrac{8}{6}$ | $\dfrac{1}{6} \cdot \dfrac{6}{5}$ | $\dfrac{12}{4} \cdot \dfrac{1}{6}$ |

| d | e | f |
|---|---|---|
| $\dfrac{2}{8} \cdot \dfrac{7}{3}$ | $\dfrac{6}{6} \cdot \dfrac{4}{4}$ | $\dfrac{1}{15} \cdot \dfrac{7}{8}$ |