Name

Probability - Cards, From Hand, Pick Two Ordered, To Equation

1 Calculate the probability of drawing Queen, King, Ace in order. Show as an equation

9♠ 8♦ A♦
Q♥ K♠

P(Q, K, A in order)

A $\frac{1}{7} \cdot \frac{1}{6}$

B $\frac{1}{5} \cdot \frac{1}{4} \cdot \frac{1}{3}$

C $\frac{2}{3} \cdot \frac{2}{2} \cdot \frac{2}{2} \cdot \frac{2}{2}$

D $\frac{2}{3} \cdot \frac{2}{2}$

E $\frac{1}{3} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$

2 Calculate the probability of drawing 3, 4, 5, 6, 7 in order. Show as an equation

3♦ 6♦ 5♠
4♣ 2♦ Q♠
7♥

P(3, 4, 5, 6, 7 in order)

A $\frac{1}{7} \cdot \frac{1}{6} \cdot \frac{1}{5} \cdot \frac{1}{4} \cdot \frac{1}{3}$

B $\frac{2}{8} \cdot \frac{2}{7} \cdot \frac{2}{6} \cdot \frac{2}{5} \cdot \frac{2}{4} \cdot \frac{2}{3} \cdot \frac{2}{2}$

C $\frac{2}{8} \cdot \frac{2}{7} \cdot \frac{2}{6} \cdot \frac{2}{5} \cdot \frac{2}{4}$

D $\frac{3}{6} \cdot \frac{3}{5} \cdot \frac{3}{4} \cdot \frac{3}{3} \cdot \frac{3}{2} \cdot \frac{3}{2}$

E $\frac{2}{9} \cdot \frac{2}{8} \cdot \frac{2}{7} \cdot \frac{2}{6}$

3 Calculate the probability of drawing 3, 4, 5 in order. Show as an equation

2♥ J♣ 5♠
4♦ 3♦

P(3, 4, 5 in order)

A $\frac{3}{3} \cdot \frac{3}{2} \cdot \frac{3}{2}$

B $\frac{2}{3} \cdot \frac{2}{2} \cdot \frac{2}{2} \cdot \frac{2}{2}$

C $\frac{2}{4} \cdot \frac{2}{3}$

D $\frac{3}{4} \cdot \frac{3}{3} \cdot \frac{3}{2}$

E $\frac{1}{5} \cdot \frac{1}{4} \cdot \frac{1}{3}$

4 Calculate the probability of drawing 9, 10, Jack, Queen in order. Show as an equation

3♦ 4♠ 10♠
J♠ 9♥ A♥
Q♠

P(9, 10, J, Q in order)

A $\frac{3}{9} \cdot \frac{3}{8}$

B $\frac{3}{8} \cdot \frac{3}{7} \cdot \frac{3}{6}$

C $\frac{2}{6} \cdot \frac{2}{5} \cdot \frac{2}{4} \cdot \frac{2}{3} \cdot \frac{2}{2}$

D $\frac{1}{7} \cdot \frac{1}{6} \cdot \frac{1}{5} \cdot \frac{1}{4}$

E $\frac{3}{7} \cdot \frac{3}{6} \cdot \frac{3}{5} \cdot \frac{3}{4}$

5 Calculate the probability of drawing Ace, 2, 3 in order. Show as an equation

6♣ 7♣ A♣
8♦ 3♣ 2♠

P(A, 2, 3 in order)

A $\frac{2}{7} \cdot \frac{2}{6} \cdot \frac{2}{5} \cdot \frac{2}{4}$

B $\frac{1}{6} \cdot \frac{1}{5} \cdot \frac{1}{4}$

C $\frac{3}{5} \cdot \frac{3}{4} \cdot \frac{3}{3} \cdot \frac{3}{2} \cdot \frac{3}{2}$

D $\frac{3}{4} \cdot \frac{3}{3} \cdot \frac{3}{2} \cdot \frac{3}{2}$

E $\frac{1}{8} \cdot \frac{1}{7}$

6 Calculate the probability of drawing 5, 6, 7, 8 in order. Show as an equation

J♣ 7♣ 8♣
5♥ 10♣ 6♦
2♣

P(5, 6, 7, 8 in order)

A $\frac{3}{5} \cdot \frac{3}{4}$

B $\frac{2}{5} \cdot \frac{2}{4}$

C $\frac{1}{9} \cdot \frac{1}{8} \cdot \frac{1}{7}$

D $\frac{2}{9} \cdot \frac{2}{8}$

E $\frac{1}{7} \cdot \frac{1}{6} \cdot \frac{1}{5} \cdot \frac{1}{4}$

7 Calculate the probability of drawing 4, 5 in order. Show as an equation

3♣ 6♥ 4♣
5♥ Q♣ 7♦
10♥

P(4, 5 in order)

A $\frac{2}{9} \cdot \frac{2}{8} \cdot \frac{2}{7} \cdot \frac{2}{6}$

B $\frac{1}{5}$

C $\frac{2}{5}$

D $\frac{2}{8} \cdot \frac{2}{7}$

E $\frac{1}{7} \cdot \frac{1}{6}$

8 Calculate the probability of drawing Jack, Queen in order. Show as an equation

Q♣ J♥ 5♠
8♥

P(J, Q in order)

A $\frac{3}{4} \cdot \frac{3}{3}$

B $\frac{1}{4} \cdot \frac{1}{3}$

C $\frac{3}{6} \cdot \frac{3}{5} \cdot \frac{3}{4} \cdot \frac{3}{3}$

D $\frac{1}{2}$

E $\frac{3}{6} \cdot \frac{3}{5} \cdot \frac{3}{4}$