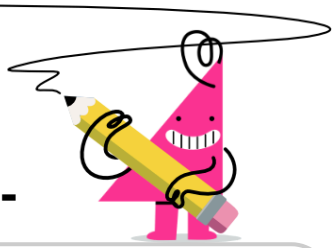
Name



Probability Counting - Choose N Cards from M, Count of Favorable Outcomes - To Factorial Equation

1

8♠ Q♠ Q♦
A♣ 7♠ Q♣
Q♥

How many ways can three Queens be drawn from this set? Show as a factorial.

A $\frac{4!}{3! \cdot 1!}$	B $\frac{5!}{5! \cdot 0!}$
C $\frac{3!}{4! \cdot 1!}$	D $4!$

2

7♣ 7♠ Q♦
7♦ 8♥

How many ways can two 7s be drawn from this set? Show as a factorial.

A $\frac{3!}{2! \cdot 1!}$	B $\frac{5!}{2! \cdot 3!}$
C $3!$	

3

5♥ K♠ 4♥
5♦ 5♣ 5♠

How many ways can three 5s be drawn from this set? Show as a factorial.

A $\frac{4!}{3! \cdot 1!}$	B $4!$
C $\frac{6!}{2! \cdot 4!}$	D $\frac{3!}{4! \cdot 1!}$

4

9♦ 8♠ 8♦
K♠ 8♣ J♦

How many ways can two 8s be drawn from this set? Show as a factorial.

A $\frac{5!}{2! \cdot 3!}$	B $\frac{2!}{3! \cdot 1!}$
C $\frac{3!}{3! \cdot 0!}$	D $3!$
E $\frac{3!}{2! \cdot 1!}$	

5

7♠ A♠ 10♠
7♣ 7♦ 7♥

How many ways can two 7s be drawn from this set? Show as a factorial.

A $\frac{6!}{3! \cdot 3!}$	B $\frac{4!}{2! \cdot 2!}$
C $\frac{2!}{4! \cdot 2!}$	D $\frac{4!}{2!}$

6

3♣ 3♠ 10♠
3♦ 3♥

How many ways can two 3s be drawn from this set? Show as a factorial.

A $\frac{4!}{2!}$	B $\frac{2!}{4! \cdot 2!}$
C $\frac{3!}{3! \cdot 0!}$	D $\frac{4!}{2! \cdot 2!}$

7

10♦ 3♥ K♠
10♠ 10♥ 10♣
8♣

How many ways can two 10s be drawn from this set? Show as a factorial.

A $\frac{4!}{2! \cdot 2!}$	B $\frac{3!}{3! \cdot 0!}$
C $\frac{2!}{4! \cdot 2!}$	D $\frac{4!}{2!}$

8

3♣ 6♠ K♣
K♥ A♣ J♦
K♠

How many ways can two Kings be drawn from this set? Show as a factorial.

A $\frac{3!}{2! \cdot 1!}$	B $\frac{2!}{3! \cdot 1!}$
C $3!$	