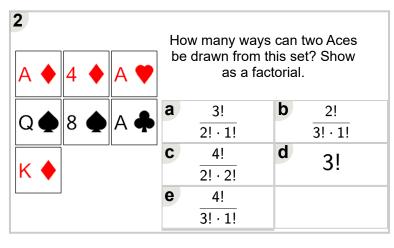Math worksheet on *'Probability Counting - Choose [...]*
Count of Favorable Outcomes - To Factorial Equation[...]
a broader unit on *'Probability and Statistics - Per[...]*
Combinations Calculating - Practice[...]

Learn online:

app.mobius.academy/math/units/probability_and_statistics_permutations_and_combi

1

J ♠	4 ♥	A ♥
A ♠	7 ♣	A ♣
5 ♦		

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

| a | $3!$ | b | $\dfrac{3!}{2! \cdot 1!}$ |
| c | $\dfrac{2!}{3! \cdot 1!}$ | | |

2

A ♦	4 ♦	A ♥
Q ♠	8 ♠	A ♣
K ♦		

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

a	$\dfrac{3!}{2! \cdot 1!}$	b	$\dfrac{2!}{3! \cdot 1!}$
c	$\dfrac{4!}{2! \cdot 2!}$	d	$3!$
e	$\dfrac{4!}{3! \cdot 1!}$		

3

| 2 ♣ | 2 ♥ | 10 ♦ |
| 2 ♠ | 6 ♠ | |

How many ways can two 2s be drawn from this set? Show as a factorial.

| a | $3!$ | b | $\dfrac{3!}{2! \cdot 1!}$ |
| c | $\dfrac{2!}{3! \cdot 1!}$ | d | $\dfrac{4!}{2! \cdot 2!}$ |

4

| J ♣ | J ♠ | J ♦ |
| 5 ♦ | 8 ♣ | A ♠ |

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

| a | $\dfrac{3!}{2! \cdot 1!}$ | b | $\dfrac{2!}{3! \cdot 1!}$ |
| c | $3!$ | | |

5

| 2 ♥ | 8 ♠ | 8 ♥ |
| 8 ♣ | 3 ♣ | |

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

| a | $\dfrac{4!}{4! \cdot 0!}$ | b | $\dfrac{2!}{3! \cdot 1!}$ |
| c | $\dfrac{3!}{2! \cdot 1!}$ | d | $3!$ |

6

| 7 ♠ | K ♣ | K ♠ |
| K ♥ | 2 ♥ | 5 ♥ |

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

| a | $3!$ | b | $\dfrac{3!}{2! \cdot 1!}$ |
| c | $\dfrac{2!}{3! \cdot 1!}$ | | |

7

3 ♣	6 ♠	K ♣
K ♥	A ♣	J ♦
K ♠		

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

| a | $\dfrac{2!}{3! \cdot 1!}$ | b | $\dfrac{3!}{2! \cdot 1!}$ |
| c | $3!$ | | |