



Math worksheet on 'Probability Counting - Ways to O Cards, 0 Repeats - to Equation (Level 1)'. Part of a bi unit on 'Probability and Statistics - Probability wit Factorials Practice'

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1 How many distinct ways can these cards be ordered? Show as a multiplication.

5 ♠	K ♣	6 ♦
8 ♣	4 ♥	

a	b
$5 \cdot 4 \cdot 3 \cdot 2$	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$
c	d
$\frac{5 \cdot 4 \cdot 3 \cdot 2}{1 \cdot 3 \cdot 2}$	$3 \cdot 2$
e	
$6 \cdot 5 \cdot 4 \cdot 3 \cdot 2$	

2 How many distinct ways can these cards be ordered? Show as a multiplication.

10 ♦	2 ♣	6 ♥
5 ♣	A ♣	

a	b
$\frac{5 \cdot 4 \cdot 3 \cdot 2}{2}$	$5 \cdot 4 \cdot 3 \cdot 2$
c	d
$3 \cdot 2$	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$
e	f
$\frac{5 \cdot 4 \cdot 3 \cdot 2}{1 \cdot 3 \cdot 2}$	$4 \cdot 3 \cdot 2$

3 How many distinct ways can these cards be ordered? Show as a multiplication.

7 ♠	6 ♠	4 ♥
Q ♦	3 ♣	

a	b
$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$	$5 \cdot 4 \cdot 3 \cdot 2$
c	
$\frac{5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2}$	

4 How many distinct ways can these cards be ordered? Show as a multiplication.

10 ♠	K ♠	6 ♦
J ♥	3 ♣	

a	b
$\frac{5 \cdot 4 \cdot 3 \cdot 2}{1 \cdot 2}$	$3 \cdot 2$
c	d
$6 \cdot 5 \cdot 4 \cdot 3 \cdot 2$	$5 \cdot 4 \cdot 3 \cdot 2$
e	f
$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{2}$

5 How many distinct ways can these cards be ordered? Show as a multiplication.

J ♥	10 ♥	A ♠
Q ♠	6 ♠	

a	b
$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{1 \cdot 2}$
c	d
$3 \cdot 2$	$\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2}$
e	f
$5 \cdot 4 \cdot 3 \cdot 2$	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{2}$

6 How many distinct ways can these cards be ordered? Show as a multiplication.

8 ♥	K ♦	J ♦
9 ♦	4 ♠	

a	b
$5 \cdot 4 \cdot 3 \cdot 2$	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2}$
c	d
$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{2}$
e	f
$\frac{5 \cdot 4 \cdot 3 \cdot 2}{1 \cdot 2}$	$3 \cdot 2$

7 How many distinct ways can these cards be ordered? Show as a multiplication.

5 ♦	6 ♥	A ♦
7 ♣	3 ♣	

a	b
$6 \cdot 5 \cdot 4 \cdot 3 \cdot 2$	$\frac{7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2}$
c	d
$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2}$
e	f
$\frac{5 \cdot 4 \cdot 3 \cdot 2}{1 \cdot 3 \cdot 2}$	$5 \cdot 4 \cdot 3 \cdot 2$