



Math worksheet on 'Probability Counting - Choose / Count of Favorable Outcomes - To Bracket Notation a broader unit on 'Probability and Statistics - Per Combinations Calculating - Practice

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**1** How many ways can two 4s be drawn from this set? Show as a binomial coefficient (bracket notation).

4 ♥	A ♥	4 ♣
6 ♣	8 ♥	4 ♠

<b>a</b>	$\binom{4}{4}$	<b>b</b>	$\binom{3}{2}$
<b>c</b>	$\binom{3}{3}$	<b>d</b>	$\binom{4}{2}$
<b>e</b>	$\binom{2}{3}$		

**2** How many ways can two Kings be drawn from this set? Show as a binomial coefficient (bracket notation).

K ♥	K ♦	K ♠
7 ♥	K ♣	

<b>a</b>	$\binom{5}{2}$	<b>b</b>	$\binom{2}{4}$	<b>c</b>	$\binom{3}{2}$
<b>d</b>	$\binom{4}{3}$	<b>e</b>	$\binom{4}{2}$		

**3** How many ways can two 3s be drawn from this set? Show as a binomial coefficient (bracket notation).

8 ♦	4 ♠	3 ♥
J ♣	A ♦	3 ♣
3 ♦		

<b>a</b>	$\binom{4}{2}$	<b>b</b>	$\binom{3}{3}$
<b>c</b>	$\binom{3}{2}$	<b>d</b>	$\binom{4}{4}$
<b>e</b>	$\binom{5}{3}$	<b>f</b>	$\binom{2}{3}$

**4** How many ways can two 8s be drawn from this set? Show as a binomial coefficient (bracket notation).

3 ♦	8 ♠	8 ♦
8 ♣	2 ♥	

<b>a</b>	$\binom{3}{2}$	<b>b</b>	$\binom{5}{4}$
<b>c</b>	$\binom{5}{2}$	<b>d</b>	$\binom{5}{3}$
<b>e</b>	$\binom{3}{3}$	<b>f</b>	$\binom{2}{3}$

**5** How many ways can two Aces be drawn from this set? Show as a binomial coefficient (bracket notation).

A ♠	A ♣	A ♦
8 ♣	5 ♠	

<b>a</b>	$\binom{5}{2}$	<b>b</b>	$\binom{4}{3}$	<b>c</b>	$\binom{2}{3}$
<b>d</b>	$\binom{3}{2}$	<b>e</b>	$\binom{5}{3}$	<b>f</b>	$\binom{3}{3}$

**6** How many ways can two 5s be drawn from this set? Show as a binomial coefficient (bracket notation).

5 ♠	5 ♣	5 ♥
5 ♦	Q ♥	4 ♦

<b>a</b>	$\binom{5}{3}$	<b>b</b>	$\binom{4}{2}$
<b>c</b>	$\binom{3}{2}$	<b>d</b>	$\binom{5}{2}$
<b>e</b>	$\binom{6}{2}$	<b>f</b>	$\binom{3}{3}$

**7** How many ways can three 6s be drawn from this set? Show as a binomial coefficient (bracket notation).

6 ♠	6 ♦	6 ♥
6 ♣	4 ♥	

<b>a</b>	$\binom{5}{2}$	<b>b</b>	$\binom{4}{3}$	<b>c</b>	$\binom{3}{4}$
<b>d</b>	$\binom{6}{2}$	<b>e</b>	$\binom{3}{2}$	<b>f</b>	$\binom{6}{3}$