



Math worksheet on 'Probability - Cards, From Hand Ordered, To nCm Equation (Level 2)'. Part of a big 'Probability and Statistics - Permutations and Combinations - Practice'

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app.mobius.academy/math/units/probability_and_statistics_permutations_and_combinations

2

Calculate the probability of drawing 4 5s. Show as a fraction in nCm form

5 ♠	A ♠	5 ♣
5 ♥	J ♦	5 ♦

P(4 5s)

a	$\frac{4C_6}{9C_6}$	b	$\frac{4C_6}{4C_4}$
c	$\frac{4P_4}{6P_4}$	d	$\frac{6C_4}{4C_4}$
e	$\frac{4C_4}{6C_4}$		

1

Calculate the probability of drawing 2 Hearts. Show as a fraction in nCm form

9 ♥	3 ♣	A ♣
7 ♥		

P(2 Hearts)

a	$\frac{4C_4}{6C_4}$	b	$\frac{2C_4}{2C_2}$
c	$\frac{2C_2}{2C_4}$	d	$\frac{3C_2}{6C_2}$
e	$\frac{2C_2}{4C_2}$		

3

Calculate the probability of drawing 3 3s. Show as a fraction in nCm form

3 ♥	3 ♦	7 ♣
8 ♠	10 ♥	3 ♠

P(3 3s)

a	$\frac{3C_3}{3C_6}$	b	$\frac{3P_3}{6P_3}$
c	$\frac{3C_6}{3C_3}$	d	$\frac{3C_3}{6C_3}$

4

Calculate the probability of drawing 3 Clubs. Show as a fraction in nCm form

6 ♦	8 ♠	K ♣
2 ♣	A ♣	3 ♠

P(3 Clubs)

a	$\frac{3C_3}{6C_3}$	b	$\frac{3C_3}{9C_3}$
c	$\frac{6C_3}{3C_3}$	d	$\frac{3P_3}{6P_3}$

5

Calculate the probability of drawing 2 Kings. Show as a fraction in nCm form

K ♠	5 ♠	K ♠
4 ♦		

P(2 Ks)

a	$\frac{2C_2}{2C_4}$	b	$\frac{2C_2}{4C_2}$
c	$\frac{2C_4}{2C_2}$	d	$\frac{4C_2}{2C_2}$

6

Calculate the probability of drawing 3 7s. Show as a fraction in nCm form

A ♠	K ♥	6 ♠
7 ♠	7 ♠	7 ♠

P(3 7s)

a	$\frac{4C_3}{9C_3}$	b	$\frac{3C_3}{6C_3}$
c	$\frac{6C_3}{3C_3}$	d	$\frac{3C_3}{3C_6}$

7

Calculate the probability of drawing 3 6s. Show as a fraction in nCm form

3 ♥	6 ♦	6 ♠
5 ♥	4 ♠	6 ♦

P(3 6s)

a	$\frac{5C_4}{8C_4}$	b	$\frac{3C_3}{6C_3}$
c	$\frac{4C_3}{8C_3}$	d	$\frac{6C_3}{3C_3}$