Name

# Probability Counting - Choose N Cards from M, Probability Counting - To Bracket Notation

## 1

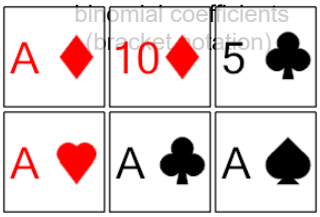
What's the chance of drawing three 4s from this set? Show as binomial coefficients (bracket notation).


A $\frac{\binom{5}{3}}{\binom{8}{4}}$ B $\frac{\binom{3}{3}}{\binom{5}{5}}$ C $\frac{\binom{3}{3}}{\binom{8}{3}}$

D $\frac{\binom{3}{2}}{\binom{3}{6}}$ E $\frac{\binom{6}{2}}{\binom{8}{5}}$ F $\frac{\binom{4}{3}}{\binom{6}{3}}$

## 2

What's the chance of drawing two Aces from this set? Show as binomial coefficients (bracket notation).




A $\frac{\binom{5}{2}}{\binom{2}{6}}$ B $\frac{\binom{4}{2}}{\binom{6}{2}}$ C $\frac{\binom{2}{4}}{\binom{6}{4}}$

D $\frac{\binom{2}{4}}{\binom{5}{2}}$ E $\frac{\binom{4}{3}}{\binom{8}{2}}$ F $\frac{\binom{3}{3}}{\binom{8}{4}}$

## 3

What's the chance of drawing two Aces from this set? Show as binomial coefficients (bracket notation).


A $\frac{\binom{2}{4}}{\binom{8}{3}}$ B $\frac{\binom{3}{2}}{\binom{5}{2}}$ C $\frac{\binom{6}{2}}{\binom{7}{3}}$

D $\frac{\binom{4}{2}}{\binom{6}{2}}$ E $\frac{\binom{3}{2}}{\binom{4}{2}}$ F $\frac{\binom{3}{3}}{\binom{2}{6}}$

## 4

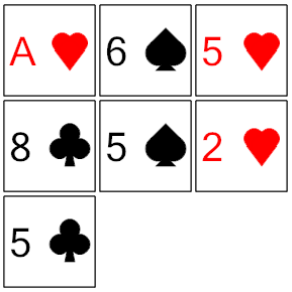

What's the chance of drawing two 4s from this set? Show as binomial coefficients (bracket notation).

A $\frac{\binom{2}{3}}{\binom{5}{3}}$ B $\frac{\binom{2}{3}}{\binom{8}{3}}$

C $\frac{\binom{3}{3}}{\binom{8}{3}}$ D $\frac{\binom{3}{3}}{\binom{2}{6}}$

E $\frac{\binom{3}{3}}{\binom{6}{2}}$ F $\frac{\binom{3}{2}}{\binom{6}{2}}$

## 5



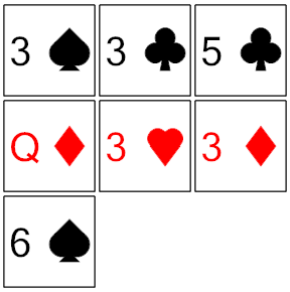

What's the chance of drawing two 5s from this set? Show as binomial coefficients (bracket notation).

A $\frac{\binom{3}{2}}{\binom{7}{2}}$ B $\frac{\binom{2}{3}}{\binom{2}{7}}$

C $\frac{\binom{3}{2}}{\binom{6}{3}}$ D $\frac{\binom{3}{3}}{\binom{5}{2}}$

E $\frac{\binom{5}{4}}{\binom{2}{7}}$ F $\frac{\binom{3}{3}}{\binom{6}{2}}$

## 6




What's the chance of drawing two 3s from this set? Show as binomial coefficients (bracket notation).

A $\frac{\binom{2}{4}}{\binom{7}{3}}$ B $\frac{\binom{5}{2}}{\binom{5}{2}}$

C $\frac{\binom{4}{2}}{\binom{7}{2}}$ D $\frac{\binom{2}{4}}{\binom{2}{7}}$

E $\frac{\binom{2}{4}}{\binom{7}{2}}$ F $\frac{\binom{6}{2}}{\binom{7}{4}}$

## 7

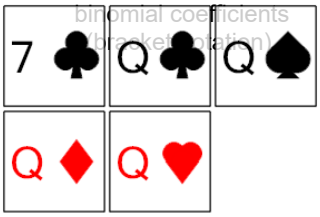
What's the chance of drawing two Kings from this set? Show as binomial coefficients (bracket notation).


A $\frac{\binom{3}{2}}{\binom{8}{2}}$ B $\frac{\binom{2}{4}}{\binom{9}{4}}$ C $\frac{\binom{3}{2}}{\binom{9}{2}}$

D $\frac{\binom{2}{4}}{\binom{8}{4}}$ E $\frac{\binom{3}{2}}{\binom{6}{2}}$ F $\frac{\binom{4}{2}}{\binom{7}{2}}$

## 8

What's the chance of drawing two Queens from this set? Show as binomial coefficients (bracket notation).




A $\frac{\binom{2}{4}}{\binom{2}{5}}$ B $\frac{\binom{4}{3}}{\binom{2}{5}}$ C $\frac{\binom{3}{3}}{\binom{2}{5}}$

D $\frac{\binom{4}{2}}{\binom{5}{2}}$ E $\frac{\binom{3}{2}}{\binom{7}{3}}$ F $\frac{\binom{5}{4}}{\binom{3}{2}}$