

mobius

Probability - Cards, From Hand, Pick Two (Non-Ordered, To Binomial Equation



1 4 ♣ 2 ♣ 9	Calculate the probability of drawing 2 2s. Show as a fraction in binomial (bracket) notation	Calculate the probability of drawing 2 8s. Show as a fraction in binomial (bracket) notation
2 🏚	A $\frac{\binom{4}{2}}{\binom{2}{2}}$ B $\frac{\binom{2}{2}}{\binom{2}{4}}$ C $\binom{2}{2}$ D $\binom{2}{4}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
2(2 2s)	C $\frac{\binom{2}{2}}{\binom{4}{2}}$ D $\frac{\binom{2}{4}}{\binom{2}{2}}$	$\begin{array}{c cccc} & & C & \begin{pmatrix} \frac{5}{2} \\ \frac{2}{2} \end{pmatrix} & D & \begin{pmatrix} \frac{2}{3} \\ \frac{8}{3} \end{pmatrix} \\ & & \begin{pmatrix} \frac{8}{3} \\ \frac{3}{3} \end{pmatrix} \end{array}$
3 ♦ 4 ♠ 4	Calculate the probability of drawing 2 Diamonds. Show as a fraction in binomial (bracket) notation	Calculate the probability of drawing 2 Clubs. Show as a fraction in binomial (bracket) notation
	A $\frac{\binom{2}{2}}{\binom{2}{3}}$ B $\frac{\binom{4}{2}}{\binom{5}{2}}$	$\begin{array}{c ccccc} & & & & & & & & & & & & & \\ \hline A & & & & & & & & & & & \\ \hline \begin{pmatrix} 2 \\ 2 \\ \hline \begin{pmatrix} 3 \\ 2 \end{pmatrix} & & & & & & \\ \hline \begin{pmatrix} 2 \\ 3 \\ 2 \end{pmatrix} & & & & \\ \hline \begin{pmatrix} 2 \\ 3 \\ 2 \end{pmatrix} & & & \\ \hline \begin{pmatrix} 2 \\ 2 \\ 2 \end{pmatrix} & & \\ \hline \end{pmatrix}$
P(2 Diamonds)	C $\frac{\binom{2}{3}}{\binom{2}{2}}$ D $\frac{\binom{2}{2}}{\binom{3}{2}}$	$\begin{array}{c cccc} & & & & & & & & & & & & & & & & & $
(
5 Q ♣ K ♥ K	Calculate the probability of drawing 2 Kings. Show as a fraction in binomial (bracket) notation	Calculate the probability of drawing 2 Diamonds. Show as a fraction in binomial (bracket) notation
6 ♦	$\begin{array}{c ccccc} A & & \frac{\binom{4}{2}}{\binom{6}{2}} & & B & & \frac{\binom{4}{2}}{\binom{2}{2}} \end{array}$	$\begin{array}{c ccccc} A & \frac{\binom{2}{2}}{\binom{2}{3}} & & B & \frac{\binom{2}{2}}{\binom{3}{2}} \end{array}$
	C $\frac{\binom{2}{2}}{\binom{4}{2}}$ D $\frac{\binom{3}{4}}{\binom{6}{4}}$	C $\frac{\binom{3}{2}}{\binom{2}{2}}$ D $\frac{\binom{4}{2}}{\binom{5}{2}}$
(2 Ks)	$E \qquad \frac{\binom{2}{4}}{\binom{2}{2}}$	P(2 Diamonds)
7 J • A • A	Calculate the probability of drawing 2 Aces. Show as a fraction in binomial (bracket) notation	Calculate the probability of drawing 2 Hearts. Show as a fraction in binomial (bracket) notation
	A $\frac{\binom{4}{2}}{\binom{5}{2}}$ B $\frac{\binom{2}{2}}{\binom{3}{2}}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	C $\frac{\binom{2}{3}}{\binom{2}{2}}$ D $\frac{\binom{3}{2}}{\binom{6}{2}}$	C $\frac{\binom{4}{3}}{\binom{5}{3}}$ D $\frac{\binom{3}{2}}{\binom{2}{2}}$
P(2 As)		P(2 Hearts)