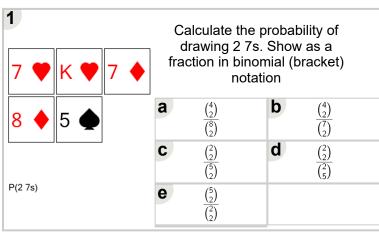
Mobius Math Club

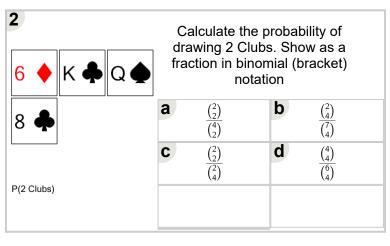


Math worksheet on 'Probability - Cards, From Hand Ordered, To Binomial Equation (Level 2)'. Part of a 'Probability and Statistics - Permutations and Combin - Practice'

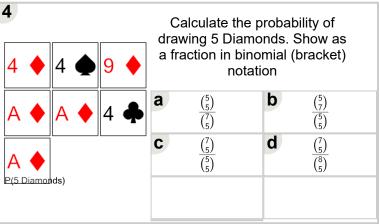
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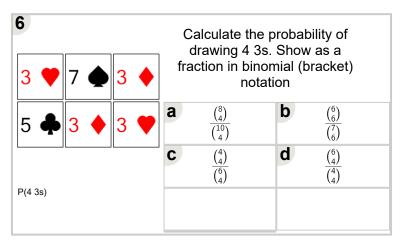




7 ♣ 7 ♦ 6 ♣	Calculate the probability of drawing 4 7s. Show as a fraction in binomial (bracket) notation	
A ◆ 10♣ 7 ♠	$\begin{array}{ccc} \mathbf{a} & \frac{\binom{7}{4}}{\binom{4}{4}} \end{array}$	$\begin{array}{c} \mathbf{b} & \frac{\binom{8}{4}}{\binom{11}{4}} \end{array}$
7 ♣	$\begin{array}{c} \mathbf{C} & \frac{\binom{4}{4}}{\binom{7}{4}} \end{array}$	$\frac{\binom{4}{7}}{\binom{4}{4}}$
P(4 7s)		



59 ♠ Q ♦ 7 ♥	Calculate the p drawing 3 5s. fraction in binon notati	Show as a nial (bracket)
5 ♦ 5 ♠ 5 ♠	a $\frac{\binom{6}{3}}{\binom{10}{3}}$	$\begin{array}{c} \mathbf{b} & \frac{\binom{3}{3}}{\binom{7}{3}} \end{array}$
8 • P(3.5s)	$\begin{array}{c} \mathbf{C} & \frac{\binom{3}{3}}{\binom{3}{7}} \end{array}$	d $\frac{\binom{7}{3}}{\binom{3}{3}}$



7 5 ♣ 10♣ 6 ♠	Calculate the probability of drawing 3 Clubs. Show as a fraction in binomial (bracket) notation	
6 ♠ Q ♣	$\frac{a}{\binom{5}{3}}$	$\frac{\binom{3}{3}}{\binom{3}{5}}$
	$\frac{\mathbf{C}}{\binom{3}{3}}$	$\mathbf{d} \qquad \qquad \frac{\binom{3}{5}}{\binom{3}{3}}$
P(3 Clubs)	$\begin{array}{c} \mathbf{e} & \frac{\binom{6}{3}}{\binom{8}{3}} \end{array}$	