Math worksheet on *'Probability Counting - Choose I Probability Counting - To Bracket Notation (Level 1)'.* unit on *'Probability and Statistics - Permutations an Calculating - Practice'*

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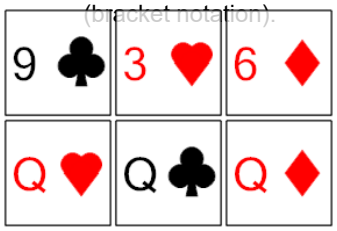
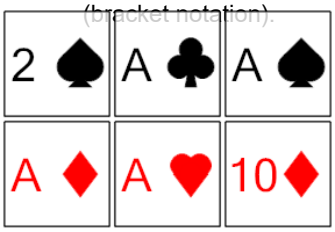
1 What's the chance of drawing two Queens from this set? Show as binomial coefficients (bracket notation).



a $\frac{\binom{3}{2}}{\binom{2}{6}}$ b $\frac{\binom{4}{2}}{\binom{6}{2}}$ c $\frac{\binom{5}{2}}{\binom{5}{4}}$

d $\frac{\binom{2}{3}}{\binom{5}{4}}$ e $\frac{\binom{3}{3}}{\binom{4}{2}}$ f $\frac{\binom{3}{2}}{\binom{6}{2}}$

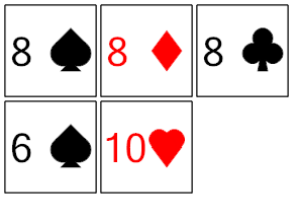
2 What's the chance of drawing two Aces from this set? Show as binomial coefficients (bracket notation).



a $\frac{\binom{3}{2}}{\binom{5}{2}}$ b $\frac{\binom{3}{2}}{\binom{4}{2}}$ c $\frac{\binom{4}{2}}{\binom{6}{2}}$

d $\frac{\binom{6}{2}}{\binom{7}{3}}$ e $\frac{\binom{2}{4}}{\binom{8}{3}}$ f $\frac{\binom{3}{3}}{\binom{2}{6}}$

3



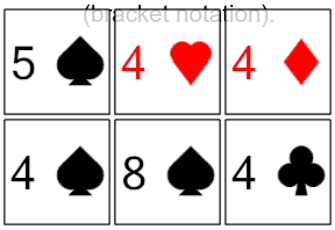
What's the chance of drawing two 8s from this set? Show as binomial coefficients (bracket notation).

a $\frac{\binom{2}{3}}{\binom{5}{2}}$ b $\frac{\binom{5}{2}}{\binom{2}{5}}$

c $\frac{\binom{2}{3}}{\binom{6}{4}}$ d $\frac{\binom{5}{3}}{\binom{2}{5}}$

e $\frac{\binom{3}{2}}{\binom{5}{2}}$ f $\frac{\binom{2}{3}}{\binom{6}{2}}$

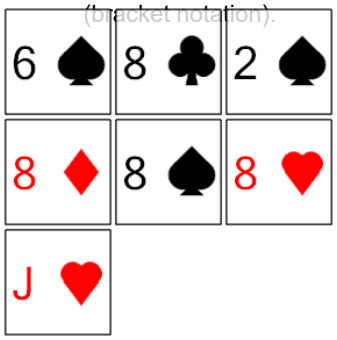
4 What's the chance of drawing three 4s from this set? Show as binomial coefficients (bracket notation).



a $\frac{\binom{4}{3}}{\binom{6}{3}}$ b $\frac{\binom{3}{4}}{\binom{4}{4}}$ c $\frac{\binom{3}{4}}{\binom{7}{2}}$

d $\frac{\binom{3}{2}}{\binom{5}{3}}$ e $\frac{\binom{4}{2}}{\binom{4}{4}}$ f $\frac{\binom{3}{3}}{\binom{8}{4}}$

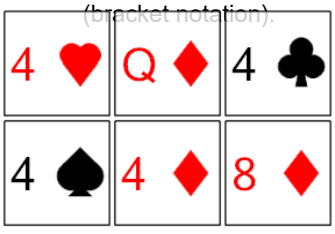
5 What's the chance of drawing three 8s from this set? Show as binomial coefficients (bracket notation).



a $\frac{\binom{4}{3}}{\binom{7}{3}}$ b $\frac{\binom{3}{3}}{\binom{3}{7}}$ c $\frac{\binom{4}{2}}{\binom{9}{2}}$

d $\frac{\binom{5}{2}}{\binom{8}{4}}$ e $\frac{\binom{6}{5}}{\binom{6}{3}}$ f $\frac{\binom{3}{3}}{\binom{5}{4}}$

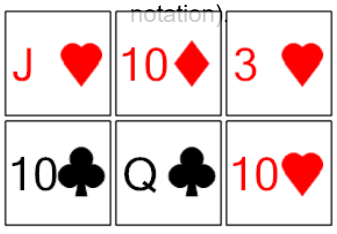
6 What's the chance of drawing three 4s from this set? Show as binomial coefficients (bracket notation).



a $\frac{\binom{3}{3}}{\binom{5}{5}}$ b $\frac{\binom{3}{3}}{\binom{8}{3}}$ c $\frac{\binom{5}{3}}{\binom{8}{4}}$

d $\frac{\binom{4}{3}}{\binom{6}{3}}$ e $\frac{\binom{3}{2}}{\binom{3}{6}}$ f $\frac{\binom{6}{2}}{\binom{8}{5}}$

7 What's the chance of drawing two 10s from this set? Show as binomial coefficients (bracket notation).



a $\frac{\binom{5}{2}}{\binom{5}{4}}$ b $\frac{\binom{2}{3}}{\binom{4}{3}}$ c $\frac{\binom{5}{2}}{\binom{6}{2}}$

d $\frac{\binom{3}{2}}{\binom{8}{2}}$ e $\frac{\binom{3}{2}}{\binom{6}{2}}$ f $\frac{\binom{3}{2}}{\binom{2}{6}}$