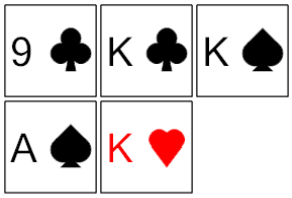
Math worksheet on *'Probability Counting - Choose I Count of Total Outcomes - To Factorial Equation (Le* broader unit on *'Probability and Statistics - Perm Combinations Calculating - Practice*

Learn online:

app.mobius.academy/math/units/probability_and_statistics_permutations_and_combi

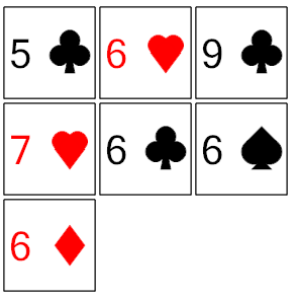
1



How many total ways can 2 cards be drawn from this set? Show as a factorial.

a $\frac{5!}{4! \cdot 1!}$	**b** $\frac{5!}{3!}$
c $\frac{5!}{2! \cdot 3!}$	**d** $\frac{2!}{5! \cdot 3!}$
e $\frac{7!}{4! \cdot 3!}$	

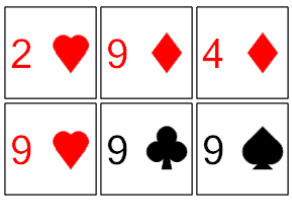
2



How many total ways can 3 cards be drawn from this set? Show as a factorial.

a $\frac{7!}{4! \cdot 3!}$	**b** $\frac{9!}{2! \cdot 7!}$
c $\frac{3!}{7! \cdot 4!}$	**d** $\frac{7!}{3! \cdot 4!}$
e $\frac{7!}{4!}$	**f** $\frac{5!}{4! \cdot 1!}$

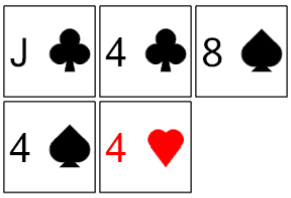
3



How many total ways can 3 cards be drawn from this set? Show as a factorial.

a $\frac{3!}{6! \cdot 3!}$	**b** $\frac{6!}{3! \cdot 3!}$
c $\frac{8!}{3! \cdot 5!}$	**d** $\frac{6!}{3!}$

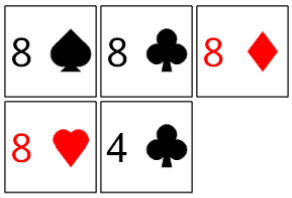
4



How many total ways can 2 cards be drawn from this set? Show as a factorial.

a $\frac{2!}{5! \cdot 3!}$	**b** $\frac{5!}{2! \cdot 3!}$
c $\frac{5!}{3!}$	

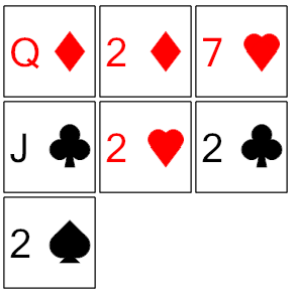
5



How many total ways can 2 cards be drawn from this set? Show as a factorial.

a $\frac{2!}{5! \cdot 3!}$	**b** $\frac{5!}{2! \cdot 3!}$
c $\frac{5!}{3!}$	**d** $\frac{5!}{3! \cdot 2!}$

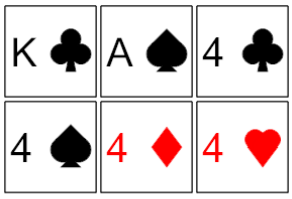
6



How many total ways can 2 cards be drawn from this set? Show as a factorial.

a $\frac{7!}{5!}$	**b** $\frac{7!}{2! \cdot 5!}$
c $\frac{2!}{7! \cdot 5!}$	

7



How many total ways can 3 cards be drawn from this set? Show as a factorial.

a $\frac{6!}{3! \cdot 3!}$	**b** $\frac{3!}{6! \cdot 3!}$
c $\frac{4!}{3! \cdot 1!}$	**d** $\frac{6!}{3!}$
e $\frac{8!}{2! \cdot 6!}$	**f** $\frac{6!}{2! \cdot 4!}$

©Mobius Math Club