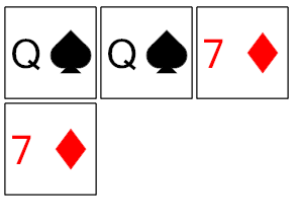
Math worksheet on *'Probability Counting - Ways to Cards, 2 Repeats - to Factorial Equation (Level 1)'*. I broader unit on *'Probability and Statistics - Binomial Intro'*

Learn online:

app.mobius.academy/math/units/probability_and_statistics_probability_with_binomial

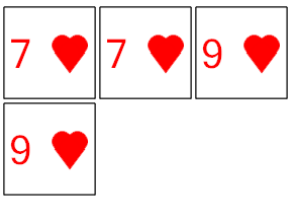
1



How many distinct ways can these cards be ordered? Show as a factorial.

a $\frac{4!}{4! \cdot 0!}$	**b** $\frac{4!}{2! \cdot 2!}$
c $\frac{4!}{2! \cdot 4!}$	**d** $\frac{4!}{3! \cdot 2!}$

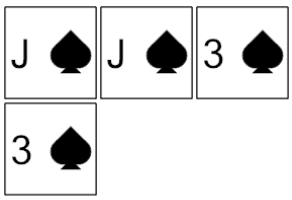
2



How many distinct ways can these cards be ordered? Show as a factorial.

a $\frac{4!}{2! \cdot 4!}$	**b** $\frac{5!}{2! \cdot 2! \cdot 2!}$
c $\frac{3!}{2! \cdot 2!}$	**d** $\frac{4!}{4! \cdot 0!}$
e $\frac{4!}{2! \cdot 2!}$	**f** $\frac{4!}{2! \cdot 3!}$

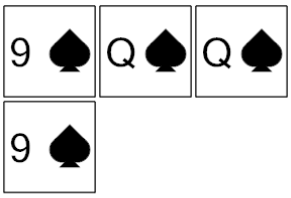
3



How many distinct ways can these cards be ordered? Show as a factorial.

a $\frac{4!}{2! \cdot 2!}$	**b** $\frac{6!}{2! \cdot 2! \cdot 2!}$
c $\frac{5!}{2! \cdot 2!}$	**d** $\frac{6!}{2! \cdot 2!}$
e $\frac{4!}{4! \cdot 2!}$	**f** $\frac{4!}{4! \cdot 0!}$

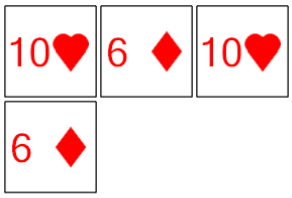
4



How many distinct ways can these cards be ordered? Show as a factorial.

a $\frac{4!}{2! \cdot 2!}$	**b** $\frac{3!}{2! \cdot 2!}$
c $\frac{4!}{4! \cdot 2!}$	**d** $\frac{4!}{4! \cdot 0!}$
e $\frac{4!}{2! \cdot 4!}$	

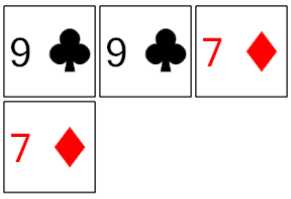
5



How many distinct ways can these cards be ordered? Show as a factorial.

a $\frac{4!}{4! \cdot 0!}$	**b** $\frac{4!}{2! \cdot 3!}$
c $\frac{4!}{4! \cdot 2!}$	**d** $\frac{4!}{3! \cdot 2!}$
e $\frac{3!}{2! \cdot 2!}$	**f** $\frac{4!}{2! \cdot 2!}$

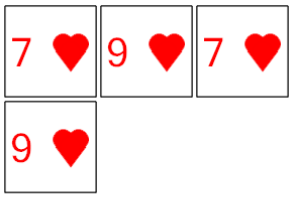
6



How many distinct ways can these cards be ordered? Show as a factorial.

a $\frac{4!}{2! \cdot 2!}$	**b** $\frac{4!}{3! \cdot 2!}$
c $\frac{4!}{4! \cdot 2!}$	**d** $\frac{4!}{4! \cdot 0!}$

7



How many distinct ways can these cards be ordered? Show as a factorial.

a $\frac{5!}{2! \cdot 2!}$	**b** $\frac{3!}{2! \cdot 2!}$
c $\frac{4!}{4! \cdot 0!}$	**d** $\frac{4!}{2! \cdot 2!}$
e $\frac{4!}{2! \cdot 3!}$	