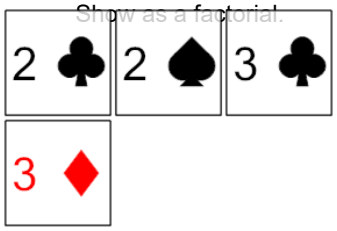
Mobius Math Club Name:_____

Math worksheet on *'Probability Counting - Duplicate 4 Cards, 2 Repeats - to Factorial Equation (Level 1)'*. broader unit on *'Probability and Statistics - Binomial Intro'*

Learn online:

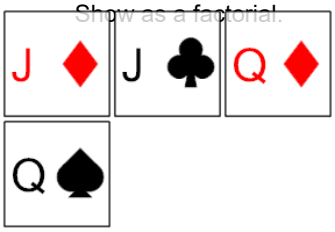
app.mobius.academy/math/units/probability_and_statistics_probability_with_binomial

1 How many ways can these cards be arranged to still be arranged smallest to largest? Show as a factorial.



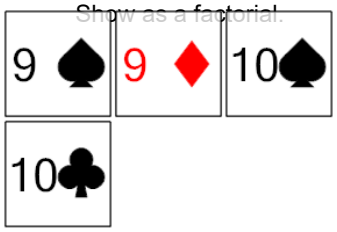
a	b	c
$\frac{2!}{2! \cdot 2!}$	$4! \cdot 2!$	$3! \cdot 2!$
d	**e**	**f**
$2! \cdot 4!$	$2! \cdot 2!$	$2! \cdot 3!$

2 How many ways can these cards be arranged to still be arranged smallest to largest? Show as a factorial.



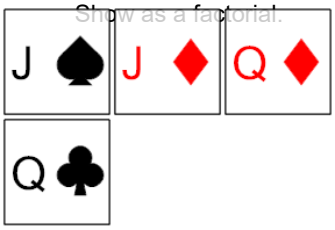
a	b	c
$2! \cdot 3!$	$\frac{2!}{2! \cdot 2!}$	$2! \cdot 4!$
d	**e**	**f**
$4! \cdot 2!$	$\frac{1}{2! \cdot 2!}$	$2! \cdot 2!$

3 How many ways can these cards be arranged to still be arranged smallest to largest? Show as a factorial.



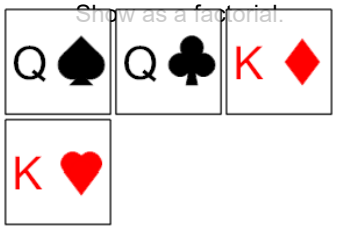
a	b	c
$2! \cdot 2!$	$2! \cdot 4!$	$\frac{1}{2! \cdot 2!}$
d	**e**	**f**
$\frac{2!}{2! \cdot 2!}$	$4! \cdot 2!$	$2! \cdot 3!$

4 How many ways can these cards be arranged to still be arranged smallest to largest? Show as a factorial.



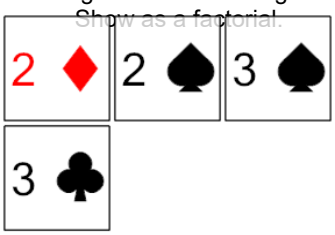
a	b	c
$2! \cdot 2!$	$\frac{1}{2! \cdot 2!}$	$2! \cdot 4!$
d	**e**	**f**
$2! \cdot 3!$	$\frac{2!}{2! \cdot 2!}$	$4! \cdot 2!$

5 How many ways can these cards be arranged to still be arranged smallest to largest? Show as a factorial.



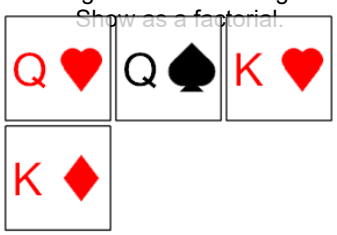
a	b	c
$3! \cdot 2!$	$\frac{1}{2! \cdot 2!}$	$2! \cdot 3!$
d	**e**	**f**
$\frac{2!}{2! \cdot 2!}$	$2! \cdot 2!$	$4! \cdot 2!$

6 How many ways can these cards be arranged to still be arranged smallest to largest? Show as a factorial.



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

7 How many ways can these cards be arranged to still be arranged smallest to largest? Show as a factorial.



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