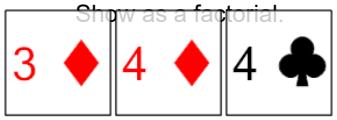
Math worksheet on *'Probability Counting - Duplicat Orders in 3 Cards, 1 Repeat - to Factorial Equatio (Level 1)'*. Part of a broader unit on *'Probability an Statistics - Probability with Factorials Intro'*

Learn online:

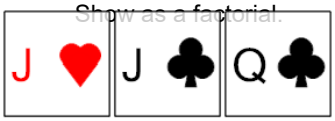
app.mobius.academy/math/units/probability_and_statistics_probability_with_factorials

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



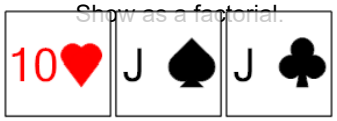
a	b	c
$4!$	$2!$	$2! \cdot 3!$
d	**e**	**f**
$3!$	$\frac{1}{2! \cdot 1!}$	$2! \cdot 2!$

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



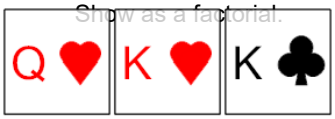
a	b	c
$\frac{1}{2! \cdot 1!}$	$2! \cdot 2!$	$\frac{2!}{2! \cdot 1!}$
d	**e**	**f**
$2!$	$2! \cdot 3!$	$4!$

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



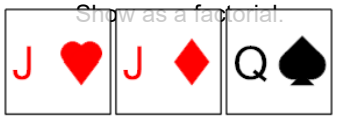
a	b	c
$\frac{2!}{2! \cdot 1!}$	$\frac{1}{2! \cdot 1!}$	$3!$
d	**e**	**f**
$2!$	$4!$	$2! \cdot 2!$

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



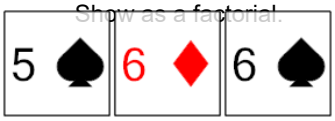
a	b	c
$\frac{2!}{2! \cdot 1!}$	$2! \cdot 2!$	$3!$
d	**e**	**f**
$\frac{1}{2! \cdot 1!}$	$2!$	$2! \cdot 3!$

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



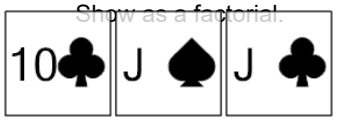
a	b	c
$\frac{1}{2! \cdot 1!}$	$2! \cdot 3!$	$\frac{2!}{2! \cdot 1!}$
d	**e**	**f**
$2! \cdot 2!$	$4!$	$2!$

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



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

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



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