

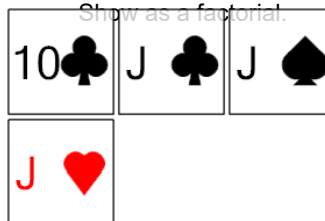


Math worksheet on 'Probability Counting - Duplicate Orders in 4 Cards, 1 Repeat - to Factorial Equation (Level 1)'. Part of a broader unit on 'Probability and Statistics - Probability with Factorials Intro'

Learn online:

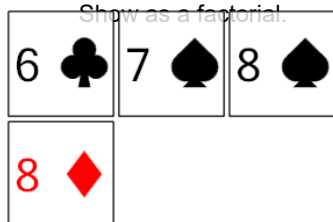
[app.mobius.academy/math/units/probability\\_and\\_statistics\\_probability\\_with\\_factorials](http://app.mobius.academy/math/units/probability_and_statistics_probability_with_factorials)

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



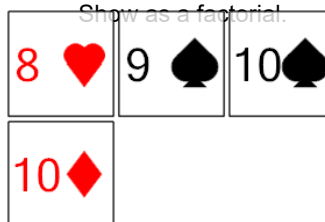
a	b	c
3!	$\frac{2!}{3! \cdot 1!}$	$\frac{1}{3! \cdot 1!}$
d	e	f
4!	5!	$3! \cdot 3!$

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



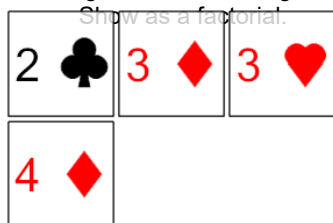
a	b	c
$\frac{1}{2! \cdot 1!}$	2!	$2! \cdot 2!$
d	e	f
4!	3!	$\frac{2!}{2! \cdot 1!}$

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



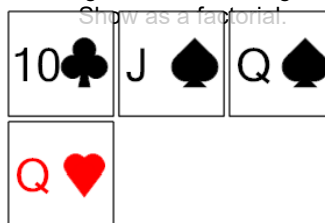
a	b	c
$2! \cdot 3!$	$\frac{2!}{2! \cdot 1!}$	3!
d	e	f
2!	$2! \cdot 2!$	4!

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



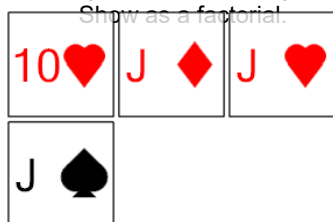
a	b	c
3!	$2! \cdot 2!$	$2! \cdot 3!$
d	e	f
$\frac{1}{2! \cdot 1!}$	2!	$\frac{2!}{2! \cdot 1!}$

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



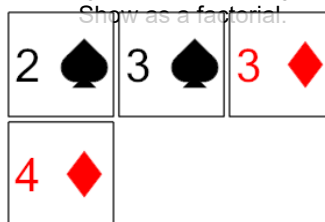
a	b	c
2!	$2! \cdot 3!$	$\frac{2!}{2! \cdot 1!}$
d	e	f
$\frac{1}{2! \cdot 1!}$	$2! \cdot 2!$	3!

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



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

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



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