

## mobius

## **Probability Counting - Duplicate Orders** in 3 Cards, 1 Repeat - to Factorial



How many way said Ut these cards be arranged to still be arranged    J   V   V   S   S   S   S   S   S   S   S	2! · 2! <b>2!</b>	<sup>B</sup> 2! · 3! <b>4!</b>	$ \begin{array}{c}     1 \\     \hline     2! \cdot 1! \end{array} $ F $ \begin{array}{c}     2! \\     \hline     2! \cdot 1! \end{array} $	How many ways can these cards be arranged to still be arranged  Smallest to largest?  5 6 6 6 6 6 7 6 6 7 6 7 6 7 6 7 6 7 6 7	4! D 2! 2! 2! 1!	3! = 1 2! · 1!	2! 5 2! · 3!
How many ways can these cards be arranged to still be arranged 7 8 8 8 8 8 8	1 2! · 1!	<sup>8</sup> 3!	<b>4!</b>	How many ways can these cards be arranged to still be arranged  3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	<b>4!</b>	E	c 2! · 3!
How many ways can these cards be arranged	2!	2! · 2!	2! 2! · 1!	6 How many ways can these cards be arranged	2! 2! · 1!	1 2! · 1!	2!
to still be arranged  smallest to largest?  J still be arranged  smallest to largest?  as factorial	2! · 2!	2! E 2!	<b>4!</b>	to still be arranged  smallest to largest?  9	2! · 2!	2! · 3!  E 2!	2! · 1!
How many ways can these cards be arranged to still be arranged	2! · 3!		2!·1!	How many ways can these cards be arranged to still be arranged snhallest to largest?	4: A 2! · 3!	2! · 1!	<b>c</b> 2!
3 V as factoria	2! · 1!  4!	2!·1! <b>3!</b>	F 2! · 2!	4 • 4 ° 5 ria	3!	E 1 2! · 1!	2!·1! <b>2!</b>