






Math worksheet on 'Probability Counting - Ways to Order 3 Cards, 0 Repeats - to Equation (Level 1)'. Part of a broader unit on 'Probability and Statistics - Counting and Probability Foundations'

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**1**

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

		
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<b>a</b>	$\frac{3 \cdot 2}{3 \cdot 2 \cdot 1}$	<b>b</b>	$\frac{3 \cdot 2}{2}$
<b>c</b>	$3 \cdot 2$	<b>d</b>	$\frac{3 \cdot 2}{1 \cdot 3 \cdot 2}$
<b>e</b>	$\frac{3 \cdot 2}{1 \cdot 2}$		




**2** How many distinct ways can these cards be ordered? Show as a multiplication.

		
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<b>a</b>	$3 \cdot 2$	<b>b</b>	$5 \cdot 4 \cdot 3 \cdot 2$
<b>c</b>	$\frac{3 \cdot 2}{1 \cdot 3 \cdot 2}$	<b>d</b>	$\frac{3 \cdot 2}{3 \cdot 2}$
<b>e</b>	$\frac{3 \cdot 2}{3 \cdot 2 \cdot 1}$		

**3**




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

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

**4**




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

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

**5**




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

		
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<b>a</b>	$\frac{3 \cdot 2}{1 \cdot 3 \cdot 2}$	<b>b</b>	$3 \cdot 2$
<b>c</b>	$\frac{3 \cdot 2}{1 \cdot 2}$	<b>d</b>	$\frac{4 \cdot 3 \cdot 2}{2}$
<b>e</b>	$\frac{3 \cdot 2}{3 \cdot 2 \cdot 1}$		

**6**




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

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

**7**

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

		
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<b>a</b>	$4 \cdot 3 \cdot 2$	<b>b</b>	$\frac{3 \cdot 2}{1 \cdot 3 \cdot 2}$
<b>c</b>	$\frac{3 \cdot 2}{3 \cdot 2 \cdot 1}$	<b>d</b>	$3 \cdot 2$