



Math worksheet on 'Probability Counting - Ways to O  
4 Letters, 0 Repeats - to Equation (Level 1)'. Part of  
broader unit on 'Probability and Statistics - Probabil  
with Factorials Intro'

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

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

**1** How many distinct ways can these letter tiles be ordered?  
Show as a multiplication.

<b>a</b>	$\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$	<b>b</b>	$4 \cdot 3 \cdot 2$
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**3** How many distinct ways can these letter tiles be ordered?  
Show as a multiplication.

<b>a</b>	$\frac{4 \cdot 3 \cdot 2}{1 \cdot 2}$	<b>b</b>	$\frac{4 \cdot 3 \cdot 2}{3 \cdot 2}$
<b>c</b>	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2}$	<b>d</b>	$\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$
<b>e</b>	$6 \cdot 5 \cdot 4 \cdot 3 \cdot 2$	<b>f</b>	$4 \cdot 3 \cdot 2$

**4** How many distinct ways can these letter tiles be ordered?  
Show as a multiplication.

<b>a</b>	$5 \cdot 4 \cdot 3 \cdot 2$	<b>b</b>	$6 \cdot 5 \cdot 4 \cdot 3 \cdot 2$
<b>c</b>	$\frac{4 \cdot 3 \cdot 2}{1 \cdot 2}$	<b>d</b>	$4 \cdot 3 \cdot 2$
<b>e</b>	$\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$		

**5** How many distinct ways can these letter tiles be ordered?  
Show as a multiplication.

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

**6** How many distinct ways can these letter tiles be ordered?  
Show as a multiplication.

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

**7** How many distinct ways can these letter tiles be ordered?  
Show as a multiplication.

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