

mobius

Probability Counting - Ways to Order 4 Letters, 2 Repeats - to Equation



How many distinct ways can these letter tiles be ordered? Show as a	$ \frac{\stackrel{6.5 \cdot 4 \cdot 3 \cdot 2}{\stackrel{2 \cdot 2}{2 \cdot 2}}}{\stackrel{c}{\cancel{2} \cdot \cancel{2}}} $	$ \frac{{}^{8}4 \cdot 3 \cdot 2}{2 \cdot 2} $ $ \frac{{}^{9}4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 2} $ $ {}^{6}4 \cdot 3 \cdot 2 $	2 X X O	How many distinct these letter tiles. Show as a multiple of the second	be ordered? Iltiplication. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
How many distinct ways can these letter tiles be	$\frac{2 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2}$	$ \begin{array}{c} 4 \cdot 3 \cdot 2 \cdot 1 \\ $	4 How many distinct was can these letter tiles	pe 3.7	$ \begin{array}{ c c c } \hline & 4 \cdot 3 \cdot 2 \\ \hline & 4 \cdot 3 \cdot 2 \cdot 1 \end{array} $ $ \begin{array}{ c c c } \hline & 5 \cdot 4 \cdot 3 \cdot 2 \end{array} $
ordered? Show as a	$\frac{3 \cdot 2 \cdot 2 \cdot 2}{^{c}4 \cdot 3 \cdot 2}$	$ \begin{array}{c} \hline 4 \cdot 3 \cdot 2 \cdot 1 \\ \hline 0 4 \cdot 3 \cdot 2 \end{array} $	ordered? Show as	$ \begin{array}{c} a \\ \hline 2 \cdot 2 \\ \hline c \\ 6 \cdot 5 \cdot 4 \cdot 3 \end{array} $	2 · 2
Q	2·2 4·3·2	6 · 5 · 4 · 3 · 2	X	$4 \cdot 3 \cdot 2 \cdot 2$	2 · 2
5	3 . 2 . 2	4 · 3 · 2 · 2 · 2	6	4 · 3 · 2 ·	2 3 2
How many distinct ways can these letter tiles be ordered? Show as a multiplication.			How many distinct ways can these letter tiles be ordered? Show as a multiplication.		
VV 4	$ \begin{array}{c cccc} 4 \cdot 3 \cdot 2 & & B \\ \hline \cdot 3 \cdot 2 \cdot 1 & & \\ 4 \cdot 3 \cdot 2 & & D \end{array} $	$\frac{4 \cdot 3 \cdot 2}{2 \cdot 2}$	S	$ \begin{array}{ccc} A & 4 \cdot 3 \cdot 2 \\ \hline 4 \cdot 3 \cdot 2 \cdot 2 \end{array} $ $ C & 4 \cdot 3 \cdot 2 $	$ \begin{array}{ccc} B & 3 \cdot 2 \\ \hline 2 \cdot 2 \end{array} $ $ D & 4 \cdot 3 \cdot 2 $
	$\frac{4 \cdot 3 \cdot 2}{2 \cdot 3 \cdot 2}$	$\frac{3\cdot 2}{2\cdot 2}$		$\frac{4 \cdot 3 \cdot 2}{2 \cdot 2}$ E $4 \cdot 3 \cdot 2$	$ \begin{array}{ccc} D & 4 \cdot 3 \cdot 2 \\ \hline 2 \cdot 3 \cdot 2 \end{array} $ $ \begin{array}{cccc} F & 4 \cdot 3 \cdot 2 \end{array} $
				$\overline{4\cdot 3\cdot 2\cdot 1}$	$\frac{3\cdot 2\cdot 2}{3\cdot 2\cdot 2}$
7 How many distinct ways can these letter tiles be ordered? Show as a	$\frac{\cancel{4} \cdot \cancel{3} \cdot \cancel{2} \cdot \cancel{1}}{\cancel{2} \cdot \cancel{4} \cdot \cancel{3} \cdot \cancel{2}}$		How many distinct ways can these letter tiles be ordered? Show as a multiplication.		
G	3 · 2 · 2 · 2	$ \begin{array}{c} D \\ 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \\ 4 \cdot 3 \cdot 2 \cdot 2 \cdot 2 \end{array} $	H	$\begin{array}{c} A & \underline{4 \cdot 3 \cdot 2} \\ \hline 4 \cdot 3 \cdot 2 \cdot 1 \\ C & \underline{4 \cdot 3 \cdot 2} \end{array}$	$\begin{array}{c} B & 4 \cdot 3 \cdot 2 \\ \hline 4 \cdot 3 \cdot 2 \cdot 2 \\ D & 3 \cdot 2 \end{array}$
	$\frac{54 \cdot 3 \cdot 2}{2 \cdot 2}$			$ \begin{array}{ccc} \hline 2 \cdot 4 \cdot 3 \cdot 2 \\ \hline E & \frac{4 \cdot 3 \cdot 2}{2 \cdot 2} \end{array} $	$ \begin{array}{ccc} \hline 2 \cdot 2 \\ F & 4 \cdot 3 \cdot 2 \\ \hline 2 \cdot 3 \cdot 2 \end{array} $