



Math worksheet on 'Probability Counting - Ways to O Letters, 1 Repeat - to Equation (Level 1)'. Part of a br unit on 'Probability and Statistics - Probability wit Factorials Practice'

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app.mobius.academy/math/units/probability_and_statistics_probability_with_factorials

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

Q	Q	L
Q		

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

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

V	V	V
B		

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

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

V	V	V
P		

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

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

J	C	P
P		

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

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

N	N	P
G		

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

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

A	M	M
T		

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

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

S	S	S
A		

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