Name

Probability Counting - Duplicate Orders in 5 Letters, 2 Repeats - to Factorial Equation

1

L	E	V
E	L	

How many ways can these letter tiles be ordered to spell 'LEVEL'? Show as a factorial.

A	$2! \cdot 2!$	B	$\frac{1}{2! \cdot 2!}$
C	$2! \cdot 4!$	D	$4! \cdot 2!$
E	$\frac{2!}{2! \cdot 2!}$	F	$2! \cdot 3!$

2

P	A	P
P	A	

How many ways can these letter tiles be ordered to spell 'PAPPA'? Show as a factorial.

A	$4! \cdot 3!$	B	$\frac{2!}{2! \cdot 3!}$
C	$\frac{1}{2! \cdot 3!}$	D	$2! \cdot 5!$
E	$2! \cdot 3!$	F	$3! \cdot 3!$

3

D	A	D
D	A	

How many ways can these letter tiles be ordered to spell 'DADDA'? Show as a factorial.

A	$\frac{2!}{3! \cdot 2!}$	B	$5! \cdot 2!$
C	$\frac{1}{3! \cdot 2!}$	D	$3! \cdot 3!$
E	$3! \cdot 4!$	F	$3! \cdot 2!$

4

M	A	M
M	A	

How many ways can these letter tiles be ordered to spell 'MAMMA'? Show as a factorial.

A	$2! \cdot 3!$	B	$2! \cdot 4!$
C	$4! \cdot 3!$	D	$\frac{1}{2! \cdot 3!}$
E	$2! \cdot 5!$	F	$3! \cdot 3!$

5

V	I	V
I	D	

How many ways can these letter tiles be ordered to spell 'VIVID'? Show as a factorial.

A	$2! \cdot 4!$	B	$2! \cdot 3!$
C	$3! \cdot 2!$	D	$\frac{1}{2! \cdot 2!}$
E	$\frac{2!}{2! \cdot 2!}$	F	$2! \cdot 2!$

6

P	A	P
P	A	

How many ways can these letter tiles be ordered to spell 'PAPPA'? Show as a factorial.

A	$\frac{1}{3! \cdot 2!}$	B	$\frac{2!}{3! \cdot 2!}$
C	$3! \cdot 2!$	D	$3! \cdot 3!$
E	$4! \cdot 2!$	F	$3! \cdot 4!$

7

M	A	M
M	A	

How many ways can these letter tiles be ordered to spell 'MAMMA'? Show as a factorial.

A	$3! \cdot 4!$	B	$5! \cdot 2!$
C	$4! \cdot 2!$	D	$\frac{1}{3! \cdot 2!}$
E	$\frac{2!}{3! \cdot 2!}$	F	$3! \cdot 2!$

8

D	A	D
D	A	

How many ways can these letter tiles be ordered to spell 'DADDA'? Show as a factorial.

A	$\frac{1}{2! \cdot 3!}$	B	$2! \cdot 5!$
C	$2! \cdot 3!$	D	$2! \cdot 4!$
E	$\frac{2!}{2! \cdot 3!}$	F	$4! \cdot 3!$