Name

Probability Counting - Duplicate Orders in 4 Letters, 2 Repeats - to Factorial Equation

1

N	O	O
N		

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

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

2

C	O	C
O		

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

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

3

M	A	M
A		

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

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

4

P	E	E
P		

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

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