mobius

Probability Counting - Duplicate Orders in 3 Letters, 1 Repeat - to Factorial Equation

1 N O N

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

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

2 A P P

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

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

3 B O B

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

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

4 A L L

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

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

5 P O P

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

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

6 O F F

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

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

7 I N N

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

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