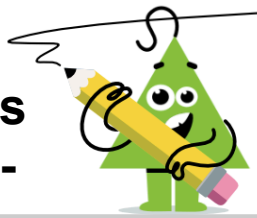
Name



Probability Counting - Choose N Letters from M, Count of Favorable Outcomes - To Factorial Equation

1

O	C	X
O	U	

How many ways can 2 vowels be drawn from this set? Show as a factorial.

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

2

O	I	C
E	L	

How many ways can 2 vowels be drawn from this set? Show as a factorial.

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

3

E	E	U
B	J	P
U		

How many ways can 3 vowels be drawn from this set? Show as a factorial.

A	$\frac{6!}{3! \cdot 3!}$	B	$4!$
C	$\frac{3!}{4! \cdot 1!}$	D	$\frac{4!}{3! \cdot 1!}$
E	$\frac{3!}{3! \cdot 0!}$		

4

M	H	U
U	U	U
Q		

How many ways can 3 vowels be drawn from this set? Show as a factorial.

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

5

E	D	A
G	E	A

How many ways can 3 vowels be drawn from this set? Show as a factorial.

A	$\frac{4!}{2! \cdot 2!}$	B	$\frac{3!}{4! \cdot 1!}$
C	$\frac{4!}{3! \cdot 1!}$	D	$\frac{3!}{3! \cdot 0!}$
E	$4!$		

6

A	E	H
O	I	B
F		

How many ways can 3 vowels be drawn from this set? Show as a factorial.

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

7

I	E	H
Q	U	

How many ways can 2 vowels be drawn from this set? Show as a factorial.

A	$3!$	B	$\frac{3!}{2! \cdot 1!}$
C	$\frac{4!}{4! \cdot 0!}$	D	$\frac{2!}{3! \cdot 1!}$

8

M	E	I
A	I	

How many ways can 2 vowels be drawn from this set? Show as a factorial.

A	$\frac{2!}{4! \cdot 2!}$	B	$\frac{4!}{2!}$
C	$\frac{4!}{2! \cdot 2!}$		