



Math worksheet on 'Probability Counting - Choose 1  
Count of Favorable Outcomes - To Bracket Notation  
a broader unit on 'Probability and Statistics - Per  
Combinations Calculating - Practice

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**1** How many ways can 2 vowels be drawn from this set? Show as a binomial coefficient

K	E	O
U	L	O

a $\binom{4}{4}$	b $\binom{3}{2}$	c $\binom{5}{3}$
d $\binom{5}{2}$	e $\binom{4}{2}$	f $\binom{3}{3}$

**2** How many ways can 2 vowels be drawn from this set? Show as a binomial coefficient

S	A	A
I	W	

a $\binom{4}{4}$	b $\binom{3}{2}$	c $\binom{3}{3}$
d $\binom{4}{2}$	e $\binom{5}{2}$	f $\binom{2}{3}$

**3** How many ways can 2 vowels be drawn from this set? Show as a binomial coefficient

N	Q	E
E	A	

a $\binom{3}{2}$	b $\binom{2}{3}$	c $\binom{4}{2}$
d $\binom{5}{4}$	e $\binom{5}{2}$	f $\binom{4}{3}$

**4** How many ways can 2 vowels be drawn from this set? Show as a binomial coefficient

E	O	R
A	A	

a $\binom{4}{2}$	b $\binom{3}{3}$	c $\binom{2}{4}$
d $\binom{5}{2}$	e $\binom{4}{4}$	f $\binom{5}{4}$

**5** How many ways can 2 vowels be drawn from this set? Show as a binomial coefficient

E	C	I
I	T	W

a $\binom{4}{2}$	b $\binom{3}{3}$	c $\binom{5}{2}$
d $\binom{3}{2}$	e $\binom{2}{3}$	

**6** How many ways can 3 vowels be drawn from this set? Show as a binomial coefficient

L	O	O
P	A	E
K		

a $\binom{6}{2}$	b $\binom{4}{4}$	c $\binom{4}{3}$
d $\binom{6}{3}$	e $\binom{3}{2}$	f $\binom{3}{3}$

**7** How many ways can 3 vowels be drawn from this set? Show as a binomial coefficient

O	E	C
B	N	U
A		

a $\binom{3}{2}$	b $\binom{6}{2}$	c $\binom{5}{5}$
d $\binom{6}{5}$	e $\binom{4}{3}$	f $\binom{3}{4}$