



Math worksheet on 'Probability Counting - Choose 1  
Probability Counting - To Bracket Notation (Level 1)'.  
unit on 'Probability and Statistics - Permutations and  
Calculating - Practice'

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**1** What's the chance of drawing 2 vowels from this set? Show as binomial coefficients

X	E	N
I	I	W

a $\frac{\binom{2}{3}}{\binom{7}{4}}$	b $\frac{\binom{3}{2}}{\binom{6}{2}}$	c $\frac{\binom{3}{2}}{\binom{8}{2}}$
d $\frac{\binom{5}{4}}{\binom{5}{2}}$	e $\frac{\binom{4}{2}}{\binom{5}{4}}$	f $\frac{\binom{3}{2}}{\binom{4}{2}}$

**2** What's the chance of drawing 3 vowels from this set? Show as binomial coefficients

E	O	E
U	J	N

a $\frac{\binom{3}{4}}{\binom{3}{6}}$	b $\frac{\binom{3}{3}}{\binom{3}{6}}$	c $\frac{\binom{4}{2}}{\binom{3}{6}}$
d $\frac{\binom{4}{3}}{\binom{6}{3}}$	e $\frac{\binom{3}{2}}{\binom{7}{2}}$	f $\frac{\binom{3}{3}}{\binom{5}{5}}$

**3** What's the chance of drawing 3 vowels from this set? Show as binomial coefficients

I	I	S
O	E	

a $\frac{\binom{4}{2}}{\binom{7}{3}}$	b $\frac{\binom{3}{2}}{\binom{6}{5}}$	c $\frac{\binom{3}{3}}{\binom{4}{2}}$
d $\frac{\binom{3}{4}}{\binom{3}{5}}$	e $\frac{\binom{4}{3}}{\binom{5}{3}}$	f $\frac{\binom{5}{4}}{\binom{3}{3}}$

**4** What's the chance of drawing 2 vowels from this set? Show as binomial coefficients

A	I	F
E	Z	P

a $\frac{\binom{3}{2}}{\binom{6}{2}}$	b $\frac{\binom{5}{2}}{\binom{2}{6}}$	c $\frac{\binom{2}{3}}{\binom{4}{2}}$
d $\frac{\binom{3}{2}}{\binom{8}{3}}$	e $\frac{\binom{3}{3}}{\binom{4}{2}}$	f $\frac{\binom{3}{3}}{\binom{5}{2}}$

**5** What's the chance of drawing 2 vowels from this set? Show as binomial coefficients

A	I	U
J	S	

a $\frac{\binom{3}{2}}{\binom{5}{2}}$	b $\frac{\binom{3}{3}}{\binom{7}{2}}$	c $\frac{\binom{2}{3}}{\binom{2}{5}}$
d $\frac{\binom{3}{3}}{\binom{4}{2}}$	e $\frac{\binom{5}{2}}{\binom{7}{2}}$	f $\frac{\binom{4}{2}}{\binom{2}{5}}$

**6** What's the chance of drawing 3 vowels from this set? Show as binomial coefficients

I	Q	U
U	I	

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

**7** What's the chance of drawing 2 vowels from this set? Show as binomial coefficients

Z	S	O
I	I	

a $\frac{\binom{3}{2}}{\binom{5}{2}}$	b $\frac{\binom{3}{2}}{\binom{2}{5}}$	c $\frac{\binom{4}{4}}{\binom{7}{3}}$
d $\frac{\binom{2}{3}}{\binom{2}{5}}$	e $\frac{\binom{2}{3}}{\binom{6}{2}}$	f $\frac{\binom{4}{4}}{\binom{2}{5}}$