**Permutations**

Given the letters {a, b, c, d, e}, how many 3-letter “words” can be formed?

 abc acb bac bca cab cba

 abd adb dab dba bad bda

 **abe aeb bae bea eab eba**

ace aec cea cae eac eca

ade aed dae dea ead eda

 acd adc cad cda dac dca

bcd bdc cbd cdb dbc dcb

bce bec cbe ceb ebc ecb

bde bed dbe deb ebd edb

 cde ced cde ced edc ecd

 

**Combinations**

Given the letters {a, b, c, d, e}, how many 3-letter subsets can be formed?

 {a, b, c} {a, b, d} **{a, b, e}** {a, c, e} {a, d, e}

 {a, c, d} {b, c, d} (b, c, e} {b, d, e} {c, d, e}

 