

FRS HW3
Kouba
Permutations, Combinations

1.) A basketball team has 12 players. How many ways can the coach select a captain, a co-captain, and an NCAA student representative from among her players ?

2.) There are 6 men and 10 women from which a committee of 7 people must be chosen. How many different 7-person committees

a.) are possible ?

b.) are possible if the committee must be made up of women only ?

c.) are possible if the committee must be made up of 5 men and 2 women ?

d.) are possible if Tarzan and Jane (2 of the 16 people)

i.) must be together on the committee ?

ii.) refuse to serve on the committee ?

iii.) are not on the committee together ?