

Math 099 - ICA 8

Name _____

Permutations, Combinations and Trees

Show all of your work to receive full credit. This quiz will be due in your D2L assignment folder by Saturday at 11:59pm. Late quizzes will not be accepted.

1. (4pts) Label the following as either a permutation or combination.

(a) the arrangements of the numbers 1-12 on a clock face

(b) choosing 3 different side dishes from 8 side dishes

(c) choosing 4 students to go to the board and work a problem

(d) choosing an 8 letter password

2. (4pts)

(a) Find the number of arrangements of the numbers 1-12 on a clock face.

(b) Find the number of ways of choosing 3 different side dishes from 8 side dishes.

3. (2pts) Salvador and Raul are equally matched at tennis. If they play 3 games, what is the sample space? Use S for Salvador winning and R for Raul winning.