

QUIZ 8 FOR M325K

Name: _____
UT EID: _____

You may use a calculator otherwise you may give the solutions using factorials.

(1) How many different poker hands are there than contain only a single pair ?

(2) In planning a small soirée you want to get 12 assorted beverages. You consider 5 kinds of beverages; Chimay Red, Kwak, Duvel, Delirium Tremens, and Lone Star.

(a) How many ways of making up the dozen beverages are there ?

(b) Suppose you must buy at least one of each type. How many ways are there of making up the dozen beverages ?

(c) Suppose you must buy at least 3 Lone Star beverages. How many ways are there of making up the 12 beverages ?