

Attendance Quiz 11

Name: _____ Date: _____

1. Use a tree diagram for the following.

(a) Find the number of ways 2 letters can be chosen from the set $\{L, M, N\}$ if order is important and repetition is allowed.

(b) Reconsider part (a) if no repeats are allowed.

(c) Find the number of combinations of 3 elements taken 2 at a time. Does this answer differ from part (a) or (b)?

2. A bag contains 5 black, 1 red, and 3 yellow jelly beans; you take 3 at random. How many samples are possible in which the jelly beans are

(a) all black?

(b) all red?

(c) 2 black and 1 red?

(d) 2 black and 1 yellow?