Name_____

Date_____

Advanced Algebra

Unit 8 Probability Assignment #3

1) You have 9 green marbles and 6 blue marbles. You are going to select three marbles WITHOUT replacement.

Make a tree diagram to represent this scenario.

What is the probability that you select EXACTLY 2 green marbles.

2) $\frac{3C2*8P2*6P1}{14P3}$

3) $\frac{5C2*9P2*7P3}{16P5}$

Now you try.....

You have 12 red marbles and 5 green marbles. You are going to select three marbles WITHOUT replacement.

Make a tree diagram to represent this scenario.

1) What is the probability of selecting all red?

2) What is the probability of selecting at most 2 red?

3) What is the probability of selecting exactly 2 red?

4) What is the probability of selecting exactly 1 green?