Name _____ Date _____

Topic 7 – Independent Events **9.7 Homework**

1.) A bag contains 10 red marbles, and 5 blue marbles. A marble is drawn at random, replaced and then a second marble is drawn. Find the probability of choosing a red marble and then a blue marble.

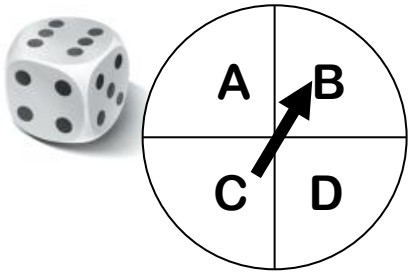
P (red and blue) =

2.) A bag contains 10 red marbles, and 5 blue marbles. A marble is drawn at random, replaced and then a second marble is drawn. Find the probability of choosing two red marbles.

P (red and red) =

3.) A die is rolled and a spinner is spun. Find the probability of rolling a 5 and spinning and landing on the letter A.

P (5 and A) =



Review It!

4.) If one letter is chosen randomly from the word **APPLE**, what is the probability that the letter chosen is the letter P?

P (P) = _____

5.) The set of all possible outcomes of an experiment is called a(n) ___.

A event

B outcome

C sample space

D experiment

TURN OVER→

#6-9 The PTA is having raising money by selling Grand Avenue t-shirts. The t-shirts come in 3 sizes small, medium and large. The t-shirts are available in 2 colors: grey and green.

6.) Make a tree diagram to show all of the possible outcomes.

7.) List the sample space.

8.) How many outcomes are possible? _____

9.) Vinny's pizza offers the choice of 3 types of crust and 6 different toppings. How many 1 crust and 1 topping pizzas are possible?

_____

Flashback!

10.) A cold front moved in, the temperature dropped 3°F each hour for 6 hours. What was the total temperature change after the 6 hours? ***Show your work.***

A -18°F **B** -9°F

C -3°F **D** -2°F

11.) A jacket that regularly costs $40 is on sale for $32. What is the percent decrease in the price of the jacket? ***Show your work.***