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.

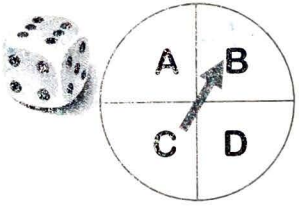
P (red and blue) = $\frac{10}{15} \cdot \frac{5}{15} = \frac{50}{225}$

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) = $\frac{10}{15} \cdot \frac{10}{15} = \frac{100}{225}$

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) = $\frac{1}{6} \cdot \frac{1}{4} = \frac{1}{24}$



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) = 2/5

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.

{SGra, SGre, MGra, MGre, LGra, LGre}

8.) How many outcomes are possible? 6

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?

3 · 6 = 18 combinations