

7th Grade Homework #3A

Due Date: March 30, 2014

1.

A license plate has three letters followed by 3 digits. The first two letters must be consonants, excluding Y. How many different license plates are there?

There are 26 letters in the alphabet.

2.

A bag contains 21 marbles that are either blue or red. There are twice as many red marbles as blue ones and we are asked to find the probability that if we pick two marbles, with no replacement, that one marble is red and one is blue.

3.

A bag has 3 red balls, 4 green balls and 5 yellow balls. If balls are drawn one at a time without replacement, what is the probability that the first yellow ball is drawn on the eighth draw?

4.

A bag has 6 balls, two red and four green. We are asked to find the probability that two selected balls (without replacement) are of different

colors.

5.

The 10 letters in the name Cybil and Ronda are placed on identical cards so that each of the 10 cards contains one letter. Without replacement, two cards are selected at random. What is the probability that one letter is from each sister's name?