Warmup/Review

At recess, students randomly pick one marble from a bag to determine teams for a game. Initially, there are 10 orange marbles and 10 blue marbles in the bag. Maria and Leah hope to be on the blue team. Maria picks her marble first and puts it in her pocket. Leah picks her marble second. What is the probability that they will both pick a blue marble?

9/38

The weather report calls for a 60% probability of snow in northern Manitoba on Tuesday. The flight from Thompson to Flin Flon has a 30% probability of being on time when it is snowing. There is an 85% probability of the flight being on time when it is not snowing.

a) Use a graphic organizer to show all possible outcomes for this situation

b) Determine the probability that the flight on Tuesday will not be on time.

b) 12/25

Shivani needs to create a new password for her computer. The password must begin with three upper case letters followed by five digits.

a) How many passwords are possible if repetition is not allowed?

b) How many passwords are possible if repetition is not allowed and the password must begin with the letter M?

a. 471 744 000 b. 18 144 000

There are 2 principals and 5 teachers lining up in a row for a photograph that will appear in the local paper. Determine the number of ways they can line up in a row if a principal must stand on each end.

240 WAYS