MARATAS Jr., MARIO B. **June 7, 2023**

02 Activity 4

1. Miriam randomly chooses 2 items for the child she is babysitting from a toy bin that contains 12 toys, 8 stuffed animals, and 3 board games. What is the probability that she chose 2 stuffed animals as the first two choices?

   P(choosing 2 stuffed animals) = (8/23) x (7/22) = 0.107410.74%

2. Arman and Gaylee went to a pet store to buy dog food for their dog Loki. They chose from 10 brands of dry food, 6 brands of canned food, and 3 brands of pet snacks. What is the probability that they both chose dry food, if Arman randomly chose first and liked the first brand he picked up?

   P(both chose dry food) = (10/19) x (9/18) = 0.2632 or 26.32%

3. Joshua's mother has 10 orange juice boxes, 7 grape juice boxes, and 3 lemonade juice boxes in the cooler for Joshua and his friends. Joshua randomly takes a juice box from the cooler, then randomly chooses another juice box without replacing the first. Find the probability that both juice boxes are lemonade.

   P(both juice boxes are lemonade) = (3/20) x (2/19) = 0.0079 or 0.79%.

4. You have a bag of 15 scrabble tiles. 3 of the tiles are O and 2 of the tiles are U. What is the probability of getting O and then U?

   P(getting O and then U) = (3/15) x (2/14) = 0.0086 or 0.86%