

MATH 120 In-class Activity

Day 5

Question 1.

- (a) A grocery store sells 5 types of juice, 6 types of soda, and 3 types of energy drinks. How many different ways are there to choose one of those types of drink?

- (b) How can you describe your answer using sets and set notation? What set are you counting to solve the question? What about this situation allows you to apply addition?

- (c) How many ways are there to take home three drinks: one juice, one soda, and one energy drink?

- (d) How can you describe your answer using sets and set notation? What set are you counting to solve the question? What about this situation allows you to apply multiplication?

Question 2. How many nine-digit numbers are made up of numbers from 1–9 in some order, like 324761589?

Question 3. How many four-digit numbers are made up of four consecutive numbers from 1–9 in some order, like 5342 or 7658?

