Section 11.1 Extra Practice

Write the answers for #1 to #4 in your notebook.

1. At Antonio's Pizzeria, the pizzas come in three sizes: large, massive, and gargantuan. There are four varieties to choose from: Veggie Garden, Carnivore's Delight, Cheesy Wheezy, and Hawaiian Paradise. Use either a tree diagram or a table to display all of the possible choices.

2. Two dice are rolled. One die has the first six prime numbers on it. The other die has the first six letters of the alphabet on it.
   a) What are the possible rolls for each die?
   b) Draw a table to show the sample space.
   c) What is the total number of outcomes?
   d) What is the probability of $P(E, 11)$? Give your answer as a fraction, a decimal, and a percent.
   e) What is the probability of getting a vowel and an even prime number? Give your answer as a fraction, a decimal, and a percent.

3. A quarter is tossed into the air and lands. Then, a nickel is tossed into the air.
   a) List all the possible outcomes.
   b) What is the probability of landing one head and one tail?
   c) What is the probability of a head followed by a tail?
   d) Explain the difference between $P(H, T)$ and $P(H$ then $T)$.

4. From a deck of cards, use only the hearts to answer the following questions. Shuffle the hearts and draw from them face down.
   a) What is the probability of drawing the six of hearts? Give your answer as a fraction, a decimal, and a percent.
   b) What is the probability of drawing a face card? Give your answer as a fraction, a decimal, and a percent.
   c) What is the probability of drawing the ace of hearts?
   d) Suppose you drew a card that was not the ace, kept it out of the pile, and drew another card. What would be the probability of getting an ace in the second draw? Give your answer as a percent.