Probability Worksheet 2

At Antonio's Pizzeria, the pizzas come in three sizes: *Small, Medium, Large*
There are four varieties to choose from: *Veggie, Meat, Cheese, & Hawaiian*
Use a tree diagram to display all of the possible choices.

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) What is the total number of outcomes?

c) What is the probability of *P*(E, 11)?

d) What is the probability of getting a vowel and an even prime number?

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 then one tail?

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?

b) What is the probability of drawing a face card?

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?

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a) What are the possible rolls for each die?

b) What is the total number of outcomes?

c) What is the probability of $P(E,11)$? (comma is EITHER)

d) What is the probability of P(vowel then even)?

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