

Name _____

Tree Diagrams Part 2

- 1) Ricky goes to Subwhey. He can either order Wheat, White or Garlic for the type of bread. He can either get Ham, or Turkey for his meat, and he can either get American or Cheddar for the cheese on his sandwich.
 - a. What are the possible combinations for his sandwich? Show this by making a tree diagram.

- 2) Georgina flips a coin 3 times.
 - a. Make a tree diagram for the sample space (all possible outcomes).

 - b. What's the probability of getting 2 heads?
 - c. What's the probability of getting 2 heads on the first two throws, and then 1 tail?
 - d. What's the probability of getting at least 2 heads?

- 3) Bill goes to the store. He needs to buy milk and buy juice, but he's not sure which kinds to buy. The kinds of milk are 1%, 2%, non-fat, and whole, and the types of juice are apple, grape, and cranberry.
 - a. Make a tree diagram showing the sample space for the different combinations Bill can get.

4) At Saffeway, you can get a delicious chicken strip meal. It comes with chicken strips, and a choice of side, and a choice of drink. The choices for the sides are mac and cheese, mashed potatoes, joe joes, egg plant salad, and pea salad. The choices for drink are pepsi, dr. pepper, orange soda, and Mr. Pibb.

a. What are all the possible outcomes? (show using an outcome grid, or tree diagram)

5) Johnnie flips a coin once and tosses a die.

a. Make a tree diagram showing all the possible outcomes.

b. Make an outcome grid showing all the possible outcomes.

6) Bill can either wear a baseball hat or a winter hat. He can either wear a blue jacket, a wool vest, or sweatshirt. He can either wear a long sleeved t-shirt, or regular t-shirt. And he can wear shorts or pants.

a. Make a tree diagram showing all possible outcomes.