Date:

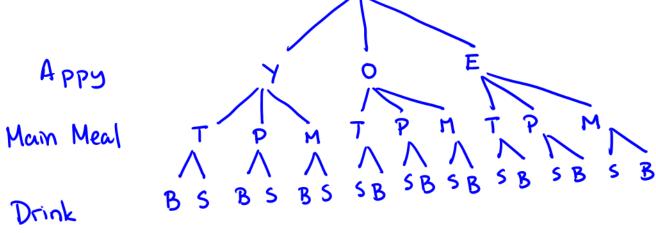
11.2 Notes: Outcome of Independent Events

Chef Worobetz has a new lunch special. For \$6 you can choose one appetizer, one main meal and one drink.

Appetizers: Yam Fries, Ostrich Wings, Escargot

Main Meals: Turkey Sandwich, Pigeon Toe Pie, Mac and Cheese Surprise

Use a tree diagram to find out how many different combinations of appetizer and main meal there are.



Chef offers the following drinks to go with the meal combinations.

Drinks: Spinach Milkshake, Banana Juice

How could you add these to your existing tree diagram to find out the total number of possible combinations?

18 meals

Find the following:

 $3 \times 3 \times 2$

- a) # of appetizers
- b) # of main meals
- c) # of drinks

How are these numbers related to the total number of combinations? # of possible combinations can be found by multiply

-18

Fraser is playing a game where he flips a coin, rolls a 4-sided die and spins a 2 section spinner. How many outcomes do you think there are in total? Can you make a prediction without drawing a tree?

Peter and Janine are flying to Mexico. There are several flights that go through each city on the way. How many different paths are there in total?

