6. A coin is tossed and a four color (blue, red, green and yellow) spinner is spun. Represent the sample space for this experiment by making a table and a tree diagram.

7. Three coins with heads or tails are tossed. Represent the sample space by making a table and a tree diagram.

8. Billy has several ingredients to make an ice cream Sunday. The following are his choices:
   Type: fat or no-fat (F or NF)
   Flavor: chocolate, strawberry, or vanilla (C, S, V)
   Nuts: crushed pecans, walnuts or no nuts (P, W, NN)
   Syrup Toppings: chocolate, strawberry, Butterscotch, or carmel (CH, S, B, Ca)
   Whipped Topping: Dairy or Non-Dairy (D, ND)

Create a tree diagram to show the sample space. Then use the fundamental counting principal to tell how many different choices are in the sample space.