

Name: _____

Period: _____

Sample Space Worksheet

1.) A pizza company makes pizza in three different sizes: small, medium, and large. There are four possible toppings: pepperoni, sausage, green pepper, and mushroom. How many different kinds of pizza with one topping are available?

2.) You can choose from three types of sandwiches for lunch and three types of juice. How many possible lunch combinations of sandwich and juice can you have?

3a.) Construct a tree diagram of the following ice cream choices: You can have vanilla, chocolate, or strawberry ice cream. You can have no topping at all or you may have either hot fudge or caramel as a topping.

3b.) What is the probability that you will order chocolate ice cream?

3c.) What is the probability that you will order ice cream with hot fudge on it?

4a.) You are buying a sweater from the store. You have to choose a size, color, and style. You can choose between Small, Medium, Large for size, blue, pink, red, brown for color, and cardigan or v-neck for style. Draw a diagram to count the number of choices.

4b.) How many different choices do you have?

4c.) What is the probability that you pick a sweater that has a v-neck?