Jordan is having a party and he will be serving juice boxes and slices of pizza.
He buys equal amounts of apple, orange, cherry, and grape juice. He also buys equal numbers of pepperoni, vegetarian and plain pizza.

How many different combinations of one juice and one pizza slice can Jordan's guests have?

Carla is the first guest to arrive. She chooses her juice and pizza slice without looking.

What is the probability she will choose:
A. an orange juice and a vegetarian slice?
B. pepperoni pizza?
C. cherry juice?


Andrew is ordering the breakfast special at his favourite diner. He has to choose the type of eggs, toast, and meat he would like with his breakfast.
He has a choice of:
-fried, scrambled, or boiled eggs:
-bagel, toast or English muffin:
-and bacon, ham or sausage.
A. How many combinations could he make?
B. What is the probability he will choose fried eggs?
C. What is the probability he will choose boiled eggs and a bagel?
D. What is the probability he will choose scrambled eggs with toast and sausage?

For Zachary's birthday party, his friends will be making their own ice cream sundaes. They have a choice between vanilla or chocolate ice cream. They can choose between 3 types of sauces: chocolate, caramel, or strawberry. They also have a choice of topping. The choices are: sprinkles, nuts, or Smarties.

What is the probability of someone having:

- a sundae with chocolate ice cream?
- a sundae with sprinkles?
- a sundae with vanilla ice cream, caramel sauce, and Smarties?


