Lunch Options

The Hot Entrée Combo in the cafeteria includes your choice of an entrée with 1 side and a drink for \$6.50. Today's selections are shown below.

Entrée	Sides	Drinks
Baked ziti with meat	Steamed broccoli	• Milk
Baked ziti with veggies	Caesar salad	• Water
	Garlic breadsticks	Apple juice
	Chicken soup	

- 1. How many different lunch combinations are there? Explain how you figured it out and how you know you have them all.
- 2. Suppose the combo also included a choice of 2 desserts: a peanut butter cookie or a chocolate brownie. How many different lunch combinations would there be then? How do you know?
- 3. Compare your answers to the first two questions. How are they different? Explain.
- 4. How many different combinations do you think you will have if you now add a choice of a peppermint or spearmint candy to your combo? Explain.
- 5. Panera Bread™ offers You Pick Two™, which includes a choice of 2 half portions from the following list: soup, macaroni, salad, and sandwich. You decide to have soup and a sandwich. There are 7 different soups and 19 different sandwiches. In addition, you can select a side of an apple, chips, or a baguette. Drawing on your work on the first four questions, determine how many different combinations you could put together.