

Student Practice - Fundamental Counting Principle:

Determine how many passwords are possible given the following:

- 1. 2 letters followed by 4 digits (repetition allowed)**
- 2. 3 digits followed by 3 letters (repetition not allowed)**
- 3. 1 letter followed by 2 digits (repetition not allowed)**
- 4. You are choosing curtains, paint, & carpet for your room. You have 12 curtains choices, 8 paint choices, & 20 carpeting choices. How many different ways can you choose curtains, paint, & carpeting for the room?**
- 5. Your school cafeteria offers three salads, four main courses, two vegetables, and three desserts. How many different lunches consisting of a salad, a main course, a vegetable, and a dessert are possible?**