

**Student:** Vilma Pena  
**Date:** 9/1/15  
**Time:** 5:41 AM

**Instructor:** Tech Support, Jonathan Byrd, Jennifer Byrom, Nancy Hixson, Kristy Hawkins, Christina Horton, Rakia Law, Joey Fields  
**Course:** MAT1301-14A-1A16-S2  
**Book:** Pirnot: Mathematics All Around, 5e

**Assignment:** Unit V Homework

10. A designer has designed different tops, pants, and jackets to create outfits. How many different outfits can the models wear if she has designed the following pieces?

five tops, two pants, nine jackets

There are a total of  different outfits.

11. Susan's friends Vicki, Luis, Maddy, Hank, and Rob have volunteered to help with the preparations for a party. How many ways can Susan assign someone to buy beverages, someone to arrange for food, and someone to send the invitations? Assume that no person does two jobs.

How many ways can Susan assign her volunteers?

ways

12. If you drew a tree diagram showing how many ways 8 coins could be flipped, how many branches would it have?

The tree diagram would have  branches.

13. An eyewitness to a crime said that the license plate of the getaway car began with the letters T and B, but he could not remember the order. The rest of the plate had the numbers 7, 1, 3, 6, and 2, but again he did not recall the order. How many license plates must the police investigate to find the car?

How many license plates must the police investigate to find the car? Choose the correct answer below.

- ☐ A. 10  
☐ B. 5,040  
☐ C. 128  
☐ D. 240