

Name: _____

HOW MANY COMBINATIONS ARE THERE?

1. In your group, how many possible combinations are there? List the combinations below.

2. Draw a graph to show the same result as you found in the first question. What are your vertices? Your edges?

3. In your group, how many possible combinations are there if we only want two people in a pair? List the combinations below.

4. Draw the graphical representation of question 3?

5. What is the difference between combinations and permutations? What is the same?

6. Using the knowledge you've gained thus far, how many possible mixtures could the mystery mixture be? (Assume we have 9 substances to choose from.)