Permutations/Combinations Classwork   Name_____

For each problem, decide if it involves permuations (order matters) or combinations (order doesn't matter). Then answer the question.

1. How many ways can you select a volleyball team (6 players) from a group of 8 people?

2. How many ways can eight different cans of soup be displayed in a row on a shelf?

3. At the 1992 Olympic Games, eight women qualified for the women's 400-meter finals in track and field. Only three women can win medals. How many different ways could the top three finish 1st, 2nd , and 3rd to receive a gold, silver, or bronze medal?

4. How many different ways can 1 committee of 5 students be selected from a class of 25 students?