1. Fifteen students ask to visit the admissions representative from WSU. Each visit includes one student. In how many ways can ten time slots be assigned?

2. The prom committee has four sites available for the banquet and three sites for the dance. How many arrangements are possible for the banquet and dance?

3. How many different teams of 11 players can be chosen from a soccer squad of 16? (It doesn’t matter when you are chosen - all that matters if you are on the team or not)

4. Suppose you find seven articles related to the topic of your research paper. In how many ways can you choose five articles to read?

5. For a band camp, you can choose two or three roommates from a group of 25 friends. In how many ways can you choose?

6. A salad bar offers eight choices of toppings for lettuce. In how many ways can you choose four or five toppings? (The salad toppings get mixed together later - so order does not matter).

7. In how many ways can four distinct positions for a relay race be assigned from a team of nine runners?

8. A committee must choose 3 finalists from 15 scholarship candidates. How many ways can the committee choose the three finalists?

9. In how many ways can 6 students be seated at one side of a table with 4 chairs?

10. A traveler can choose from three airlines, five hotels, and four rental car companies. How many arrangements of these services are possible?
Indicate whether each situation involves a permutation or a combination.

11. 5 runners crossing the finish line
12. 12 books arranged on a shelf

13. 4 books pulled randomly off a shelf
14. 3 flavors of juice selected from a store

How many 4-letter permutations can you form from the letters of each word?

15. MODEL
16. EQUATIONS

17. LINEAR
18. FORMULA

How many combinations of 4 can you make from each set?

19. 25 basketball cards
20. a rose, daisy, peony, daffodil, tulip

21. \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}
22. 28 students in class

23. Write your own Permutation or Combination story problem. Be CREATIVE. Write the story problem and find the answer. Label your answer either Permutation or Combination and box in the answer you find.