Name:_____   Date: _____

1) A fair die whose faces are numbered from 1 to 6 is thrown 3 times in a row. How many possible results are there?

2) How many 3-letter code words can be formed by repeated use of the letters of the alphabet?

3) In how many different ways can you draw 2 cards from a deck of 52 cards if the first card is replaced before the second one is drawn?

4) How many different 2 digit numbers can be formed from the digits 1,2,3,4, and 5 if no repetitions are allowed?

5) How many combinations with repetition can be made from 10 objects taken 4 at a time?

6) Two prizes are awarded in a class of 20 students. Each student can win both prizes. How many different pairs of winners are possible if the order in which the prizes are awarded is not considered?

7) A committee of 3 people must be formed from a club of 5 members. How many different committees are possible?

8) How many 6-number combinations are there in the lottery game 6/49?

9) Chris hangs his laundry on the clothesline. He has 4 shirts, 2 pairs of pants, and 3 t-shirts. How many different arrangements are possible?