

Problem 5

- a. $25 * 24$ possible letters, since the only cases of repetition is using the first letter as the second letter, and using Z at all.

- b. $26 * 26$ possible letters, because there are 26 letters.

- c. $(25 * 24) / 2$ possible letters, because half the time the first two letters will be in alphabetical order, and the other half it will not be.

- d. $(25 * 25) / 2$ possible letters, because half the time the first two letters will be in alphabetical order, and the other half it will not be