

1. A license plate has two letters followed by 2 numbers. If the letters and numbers can be repeated, how many possible license plates are there?
2. Suppose instead that there can be no repeat letters and no repeat numbers. How many possible license plates are there?
3. How many ways can the letters in the word “cash” be arranged?
4. How many ways can the letters in the word “loot” be arranged?
5. Out of 10 people, how many possible ways are there to select a president, secretary, and treasurer?