

Honors Statistics

Mock Quiz 3.7

Name _____

Period ____ Date _____

1. How many license plates are possible if they consist of five letters followed by two digits? Repetition is permitted.
2. If there are 30 entries in a "best of breed" dog show, in how many ways can 1st, 2nd, and 3rd place be awarded?
3. You take a 6 question multiple choice quiz. There are five choices for each question. How many ways can the 6 question quiz be answered? Assume no answers are left unanswered
4. The Math Club has 40 members and wants to make a committee for their annual banquet. The committee will have 6 members. How many different committees can be formed?
5. A sandwich shop offers three different breads, five different meats and four different cheeses. How many sandwiches can be made if a customer chooses a bread, meat, and cheese for the sandwich?
6. In how many different ways can eight runners finish a race?
7. Find the number of ways the letters of the word KNICKKNACK can be arranged.
8. In how many different ways can a 7 question true-false test be answered if every question must be answered?
9. Milly has 64 crayons in a box but her teacher says she can only use 6 colors for a project. How many sets of 6 crayons can she choose?
10. How many 3 digit positive odd integers less than 500 are there if you are only allowed to use the digits 1, 2, 7, 8, and 9?
11. How many different zip codes can be formed if the first digit must be odd?
12. In the Florida Fantasy Five, you are trying to match 5 numbers from 1 to 39. Find the **probability** of winning the Florida Fantasy Five.

Answers to Mock Quiz

- 1 1188137600
- 2 24360 (permutation)
- 3 15625
- 4 3838380 (combination)
- 5 60
- 6 40320 (permutation; 8!)
- 7 37800
- 8 128
- 9 74974368 (combination)
- 10 30
- 11 50000
- 12 .00000174 (combination)