

Name _____

Date _____

Worksheet E2 : Combinations

Use the combinations formula to simplify each problem.

1. ${}^9C_4 =$

2. ${}^4C_4 =$

3. ${}^9C_0 =$

4. ${}^{40}C_3 =$

5. ${}^{12}C_4 =$

6. ${}^{12}C_8 =$

7. How many different 12-member juries be chosen from a pool of 32 people?

8. A test consists of 20 questions, but you are told to answer only 15. In how many different ways can you choose the 15 questions?

9. How many ways can nine starting players be chosen from a softball team of 15?

10. Four seniors will speak at graduation. If 30 students audition to speak, how many different groups of 4 speakers can be selected?