

1. 5_2C_7
2. 8P_8
3. ${}^{10}C_5 * {}^{12}C_6$
4. ${}^{14}C_6$
5. 5P_5
6. 8C_4
7. ${}^8C_2 * {}^{12}C_5 + {}^8C_3 * {}^{12}C_2 + {}^8C_4 * {}^{12}C_1 + {}^8C_5 * {}^{12}C_0$
8. ${}^{10}P_3 = 720$
9. ${}^7C_4 = 35$
10. ${}^6C_2 * {}^4C_1 + {}^6C_1 * {}^4C_2 = 96$
11. $7! = 5040$
12. ${}^8C_2 = 28$
13. ${}^4P_4 = 24$
14. ${}^9C_2 = 36$
15. $9!/3!2! = 30240$
16. ${}^9C_1 * {}^8C_3 = 504$
17. ${}^6P_4 = 360$
18. ${}^{10}C_3 = 120$
19. ${}^8C_0 * {}^{12}C_4 + {}^8C_1 * {}^{12}C_3 + {}^8C_2 * {}^{12}C_2 = 4103$
20. ${}^{11}C_5 = 462$
21. ${}^5P_5 * {}^5P_5 = 14400$
22. ${}^{16}C_2 = 120$

$$23. {}_8C_3 = 56$$

$$24. {}_8C_5 = 56$$

$$25. {}_7C_4 = 35$$

$$26. {}_{12}P_2 = 132$$

$$27. {}_{280}C_5 = 1.3836E10$$

$$28. {}_4C_1 \cdot {}_4C_1 \cdot {}_{50}P_{49} = 1881600$$