Evaluate:

- 1. ₇ C₃
 - [A] 35
- [B] 70
- [C] 210
- [D] 5040

- 2. ₈C₃
 - [A] 112
- [B] 336
- [C] 40,320
- [D] 56

- 3. Evaluate: 11 C₆
- 4. Evaluate: ₆C₂
- 5. Evaluate: ${}_{9}C_{8}$
- 6. Use a calculator to evaluate ${}_{7}C_{4}$.
- 7. Use a graphing calculator to find the ratio of $_{11}P_7$ to $_{11}C_7$.

8. Compare the quantity in Column A with the quantity in Column B.

 $\frac{\text{Column A}}{{}_{10}\text{C}_3} \qquad \frac{\text{Column B}}{{}_{9}\text{C}_4}$

- [A] The quantity in Column A is greater.
- [B] The quantity in Column B is greater.
- [C] The two quantities are equal.
- [D] The relationship cannot be determined on the basis of the information supplied.
- 9. Compare the quantities in Column A and Column B.

 $\begin{array}{cc} \underline{Column\ A} & \underline{Column\ B} \\ \\ {}_{15}C_8 & \\ \\ \end{array}$

- [A] The quantity in Column A is greater.
- [B] The quantity in Column B is greater.
- [C] The quantities are equal.
- [D] The relationship cannot be determined from the information given.
- 10. Compare the quantities in Column A and Column B.

 $\frac{\text{Column A}}{\text{for } r > 1, _{n} C_{r}} \frac{\text{Column B}}{\text{for } r > 1, _{n} P_{r}}$

- [A] The quantity in Column A is greater.
- [B] The quantity in Column B is greater.
- [C] The quantities are equal.
- [D] The relationship cannot be determined from the information given.

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[1]	<u>A</u>
[2]	<u>D</u>
[3]	462
[4]	15
[5]	9
[6]	35
[7]	5040:1
[8]	В

[9] <u>B</u>

[10] <u>B</u>