Subject:

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[1] $250C_2 = 31125$ ways.

[2] $\frac{5!}{2! \times 3!} = 10$ ways.

[3] $1 \times 3! \times 1 = 6$ ways.

(4) $30 \times 29 \times 28 = 24360$ ways.

[5] ${}^6C_3 = \frac{6!}{3!(6-3)!} = 20$ ways.

[6] Zero

[7] $\binom{6}{3} - \left[\binom{4}{2} \times \binom{2}{2}\right] = 14$ ways.

[8] a- $5 + {}^{20}C_4 = 16795$ ways

b- $10 + {}^{15}C_4 = 1375$ ways