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$$\binom{8}{6}(3x^2)^2(2y)^6$$

$$\frac{8!}{6! \cdot 2!} = \frac{8 \cdot 7}{2} = 28$$

$$28 \cdot 3^2 \cdot x^6 \cdot 2^6 \cdot y^6 = 28 \cdot 9 \cdot 64 \cdot x^6 \cdot y^6$$

$$= 16128 x^6 y^6$$

There is no coefficient for $x^4 y^3$