Potenzen Aufgabe 36

$$\left(\frac{3b^3y}{2ax^2}\right)^3 * \left(\frac{5x^2y^2}{3a^2b^2}\right)^3 : \left(\frac{5b^2y^6}{4a^4}\right)^2$$

$$= \frac{3^3 * b^9 * y^3 * 5^3 * x^6 * y^6 * 4^2 * a^8}{2^3 * a^3 * x^6 * 3^3 * a^6 * b^6 * 5^2 * b^4 * y^{12}} =$$

$$= \frac{3^3 * 5^3 * 2^2 * 2^2}{2^3 * 3^3 * 5^2} * \frac{1}{b^{6+4-9} * y^{12-3-6} * a^{3+6-8}} =$$

$$= \mathbf{10 * \frac{1}{b * y^3 * a}}$$