

## Potenzen Aufgabe 32

$$\begin{aligned}
 & \frac{(3ab)^2 * (4ac)^3 * (5bc)^4}{(25abc)^2 * (6abc)^3} = \frac{3^2 a^2 b^2 * 4^3 a^3 c^3 * 5^4 b^4 c^4}{25^2 a^2 b^2 c^2 * 6^3 a^3 b^3 c^3} = \\
 & = \frac{3^2 * 2^3 * 2^3 * 5^4}{5^2 * 5^2 * 2^3 * 3^3} * \frac{a^{2+3} * b^{2+4} * c^{3+4}}{a^{2+3} * b^{2+3} * c^{2+3}} = \\
 & = \frac{8}{3} * \frac{a^5 * b^6 * c^7}{a^5 * b^5 * c^5} = \frac{8}{3} * b * c^2
 \end{aligned}$$