

## Practice Quiz - Properties of Exponents

**Simplify. Your answer should contain only positive exponents.**

1)  $6x^2y^2z^5 \cdot 6x^3y^5z^{-6}$

2)  $(2h^{-6}j^4k^2)^{-3}$

3)  $\frac{4a^4b^4c^3}{4a^2b^2}$

4)  $\frac{3p^4q^{-4}r^{-2}}{5p^3q^3r^5}$

$$5) (x^3 y^5 z^{-6})^4 \cdot x^2 y^6 z^2$$

$$6) (a^3 b^5 c^2)^{-6} \cdot a^{-1} b^{-3} c^2$$

$$7) \frac{p^5 r^2 \cdot 5p^{-3} q^6 r^6}{2q^{-5} r^{-2}}$$

$$8) \frac{2yx^3 z^5 \cdot 3x^5 y^2 z^5}{3xy^{-2}}$$

$$9) \left( \frac{b^{-5} c^{-6}}{a^5 b^4} \right)^2$$

$$10) \frac{x^3 y^6 z^{-5}}{(x^4 y^{-1} z^{-1})^{-5}}$$