

Name: _____

Math is Gold

Date: _____

Topic: Exponents

(id:exp_simplify_A.1)

Title: Simplify

1) $\frac{4x^3y^5z^7}{-8z^5y^7x^{-2}}$	2) $\frac{a^{-5}b^9c^{11}}{-2c^7b^9a^7}$	3) $\frac{-2p^7q^{-3}r^5}{4q^5r^3p^4}$
4) $\frac{8mn^7p^{11}}{6p^8m^9n^7}$	5) $\frac{-3f^{11}g^3h^5}{6h^{-2}g^2f^8}$	6) $\frac{2c^{-5}d^{11}e^2}{-6e^3d^5c^7}$
7) $\frac{9l^{10}m^7n^{-2}}{-6n^5m^5l^{10}}$	8) $\frac{-u^5v^{15}w^2}{w^2v^5u^{-5}}$	9) $\frac{2j^{-11}k^5l^3}{-6l^3k^2j^{-8}}$

$$10) \frac{-8r^7s^5t^5}{10s^{-10}r^5t^5}$$

$$11) \frac{10a^{15}b^{11}c^{-8}}{15c^{-7}b^8a^5}$$

$$12) \frac{4x^{10}y^2z^8}{2z^9y^{-2}x^{11}}$$

$$13) \frac{-4p^{18}q^9r^{-5}}{12r^5p^{11}q^8}$$

$$14) \frac{-6m^{11}n^{-7}p^{10}}{10p^{11}m^{10}n^5}$$

$$15) \frac{j^2k^{10}l^7}{2k^5j^{10}}$$