

Name \_\_\_\_\_

# Power of Quotient

Simplify the exponents. (Decimal exponent)

1) $\left(\frac{ab^{0.5}}{c^{1.5}d^{-0.5}}\right)^2$ $\frac{a^2b}{c^3d^{-1}}$	2) $\left(\frac{x^2y^{0.4}}{z^{1.2}}\right)^3$ $\frac{x^6y^{1.2}}{z^{3.6}}$	3) $\left(\frac{3a^{0.7}b}{2c^{1.2}d^{-0.3}}\right)^2$ $\frac{9a^{1.4}b^2}{4c^{2.4}d^{-0.6}}$
4) $\left(\frac{5uv^{0.2}}{2w^{0.5}xyz^{-0.3}}\right)^3$ $\frac{125u^3v^{0.6}}{8w^{1.5}xyz^{-0.9}}$	5) $\left(\frac{ab^{0.3}}{cd^{-0.7}}\right)^2$ $\frac{a^2b^{0.6}}{c^2d^{-1.4}}$	6) $\left(\frac{x^{0.4}y}{z^{-1.2}}\right)^3$ $\frac{x^{1.2}y^3}{z^{-3.6}}$
7) $\left(\frac{2a^{0.5}b^{0.2}}{c^{1.8}d^{-0.6}}\right)^2$ $\frac{4ab^{0.4}}{c^{3.6}d^{-1.2}}$	8) $\left(\frac{4uv^{0.3}}{w^{0.5}xyz^{-0.4}}\right)^3$ $\frac{64u^3v^{0.9}}{w^{1.5}xyz^{-1.2}}$	9) $\left(\frac{3a^{0.6}b}{4c^{1.4}d^{-0.2}}\right)^2$ $\frac{9a^{1.2}b^2}{16c^{2.8}d^{-0.4}}$
10) $\left(\frac{6uv^{0.1}}{w^{0.3}xyz^{-0.5}}\right)^3$ $\frac{216u^3v^{0.3}}{w^{0.9}xyz^{-1.5}}$	11) $\left(\frac{ab^{0.7}}{cd^{-0.5}}\right)^2$ $\frac{a^2b^{1.4}}{c^2d^{-1}}$	12) $\left(\frac{2x^{0.2}y}{z^{-1.5}}\right)^3$ $\frac{8x^{0.6}y^3}{z^{-4.5}}$