

Name \_\_\_\_\_

# Power of Quotient

Simplify the exponents. (Large Coefficient)

|   |  |  |
|---|--|--|
| 1) $\left(\frac{100a^2b}{3c}\right)^3$<br>$\frac{1000000a^6b^3}{9c^3}$          | 2) $\left(\frac{500xy^2}{5uv}\right)^2$<br>$\frac{10000x^2y^2}{u^2v^2}$          | 3) $\left(\frac{-300p^{-2}}{q^2}\right)^4$<br>$810000p^4q^8$                     |
| 4) $\left(\frac{400mn^2}{5p}\right)^3$<br>$\frac{5120m^3n^6}{p^3}$              | 5) $\left(\frac{-200x}{y^3}\right)^2$<br>$\frac{40000x^2}{y^6}$                  | 6) $\left(\frac{100ab^2}{3c^2d^{-1}}\right)^3$<br>$\frac{1000000a^3b^6}{27c^6d}$ |
| 7) $\left(\frac{600pq^2}{2r^{-2}s}\right)^4$<br>$\frac{32400p^4q^8}{r^4s^4}$    | 8) $\left(\frac{-200xy^2}{3z}\right)^3$<br>$\frac{-8000x^3y^6}{27z^3}$           | 9) $\left(\frac{500a^3b^2}{2cd}\right)^2$<br>$\frac{31250a^6b^4}{c^2d^2}$        |
| 10) $\left(\frac{400ab^2}{5cde^{-2}}\right)^3$<br>$\frac{512a^3b^6}{c^3d^3e^3}$ | 11) $\left(\frac{300u^2v}{2wxyz}\right)^2$<br>$\frac{22500u^2v^2}{w^2x^2y^2z^2}$ | 12) $\left(\frac{200m^3n^2}{3pqr}\right)^3$<br>$\frac{8000m^9n^6}{27p^3q^3r^3}$  |