

Name _____

Power of Quotient

Simplify the exponents. (Scientific Notation)

| | | |
|---|---|--|
| 1) $\left(\frac{1.8 \times 10^4}{2 \times 10^{-3}}\right)^2$ 1.6×10^{12} | 2) $\left(\frac{2.5 \times 10^6}{5 \times 10^{-2}}\right)^3$ 1.25×10^{15} | 3) $\left(\frac{3 \times 10^3}{4 \times 10^{-4}}\right)^2$ 12.25×10^{10} |
| 4) $\left(\frac{6 \times 10^5}{3 \times 10^{-1}}\right)^3$ 7.2×10^{17} | 5) $\left(\frac{2.5 \times 10^2}{1.25 \times 10^{-2}}\right)^2$ 5×10^6 | 6) $\left(\frac{1.6 \times 10^5}{4 \times 10^{-3}}\right)^3$ 6.4×10^{18} |
| 7) $\left(\frac{9 \times 10^4}{6 \times 10^{-2}}\right)^2$ 1.35×10^{10} | 8) $\left(\frac{3 \times 10^6}{1.5 \times 10^{-1}}\right)^3$ 1.44×10^{19} | 9) $\left(\frac{4.5 \times 10^3}{3 \times 10^{-3}}\right)^2$ 6.75×10^9 |
| 10) $\left(\frac{7.2 \times 10^5}{2.4 \times 10^{-1}}\right)^3$ 1.5×10^{20} | 11) $\left(\frac{1.2 \times 10^4}{4 \times 10^{-4}}\right)^2$ 3×10^{11} | 12) $\left(\frac{5 \times 10^6}{2.5 \times 10^{-2}}\right)^3$ 1×10^{20} |