

Name _____

Dividing Exponents

Simplify the following expression and write the answer in scientific notation.

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|-----|---|---|-----------------------------------|
| 1) | $(3.2 \times 10^5) \div (1.6 \times 10^2)$ | = | $\underline{2 \times 10^3}$ |
| 2) | $(13.23 \times 10^4) \div (6.3 \times 10^6)$ | = | $\underline{2.1 \times 10^{-2}}$ |
| 3) | $(51.24 \times 10^5) \div (4.2 \times 10^7)$ | = | $\underline{4.2 \times 10^{-2}}$ |
| 4) | $(18.75 \times 10^4) \div (12.5 \times 10^7)$ | = | $\underline{1.5 \times 10^{-3}}$ |
| 5) | $(15.47 \times 10^3) \div (4.42 \times 10^7)$ | = | $\underline{3.5 \times 10^{-4}}$ |
| 6) | $(3.938 \times 10^8) \div (2.2 \times 10^9)$ | = | $\underline{1.79 \times 10^{-1}}$ |
| 7) | $(38.13 \times 10^4) \div (4.1 \times 10^{-7})$ | = | $\underline{9.3 \times 10^{11}}$ |
| 8) | $(28.7 \times 10^6) \div (8.2 \times 10^{-2})$ | = | $\underline{3.5 \times 10^8}$ |
| 9) | $(24.42 \times 10^9) \div (3.3 \times 10^{-7})$ | = | $\underline{7.4 \times 10^{16}}$ |
| 10) | $(13.95 \times 10^{-3}) \div (3.1 \times 10^3)$ | = | $\underline{4.5 \times 10^{-6}}$ |
| 11) | $(22.26 \times 10^6) \div (4.2 \times 10^4)$ | = | $\underline{5.3 \times 10^2}$ |
| 12) | $(30.69 \times 10^4) \div (9.3 \times 10^{-8})$ | = | $\underline{3.3 \times 10^{12}}$ |