

Name _____

Operation With Exponents

Simplify and write each answer in scientific notation.

Round to the nearest thousandth if needed.

$$1) (8.4 \times 10^5)(3.47 \times 10^6) \quad \underline{2.9148 \times 10^{12}}$$

$$2) (3.5 \times 10^{-5})(7 \times 10^{-4}) \quad \underline{2.45 \times 10^{-8}}$$

$$3) (3 \times 10^3)(8.6 \times 10^4) \quad \underline{2.58 \times 10^8}$$

$$4) (5 \times 10^{-6})(7 \times 10^{-4}) \quad \underline{3.5 \times 10^{-9}}$$

$$5) (4.75 \times 10^{-4})(9.3 \times 10^{-6}) \quad \underline{4.4175 \times 10^{-9}}$$

$$6) (9.35 \times 10^5)(4.09 \times 10^6) \quad \underline{3.82415 \times 10^{12}}$$

$$7) (5 \times 10^{-6})(4.3 \times 10^{-5}) \quad \underline{2.15 \times 10^{-10}}$$

$$8) (8.7 \times 10^{-5})(2.6 \times 10^{-4}) \quad \underline{2.262 \times 10^{-8}}$$

$$9) (8 \times 10^3)(9 \times 10^6) \quad \underline{7.2 \times 10^{10}}$$

$$10) (3.82 \times 10^4)(9.4 \times 10^6) \quad \underline{3.5908 \times 10^{11}}$$

$$11) (5 \times 10^{-4})(7.4 \times 10^{-6}) \quad \underline{3.7 \times 10^{-9}}$$

$$12) (8 \times 10^2)(9.54 \times 10^5) \quad \underline{7.632 \times 10^8}$$