

Express these numbers in scientific notation.

1. 0.0023 $\underline{2.3 \times 10^{-3}}$

4. 14,000 $\underline{1.4 \times 10^4}$

2. 0.258 $\underline{2.58 \times 10^{-1}}$

5. 0.000036 $\underline{3.6 \times 10^{-5}}$

3. 10.236 $\underline{1.0236 \times 10^1}$

6. 2.52 $\underline{2.52 \times 10^0}$

Express these numbers in decimal notation.

1. 4.36×10^2 $\underline{436}$

4. 1.45×10^{-2} $\underline{0.0145}$

2. 3.40×10^{-3} $\underline{0.00340}$

5. 5.02×10^4 $\underline{50200}$

3. 2.67×10^5 $\underline{267000}$

6. 1.21×10^{-7} $\underline{0.000000121}$

Use your calculator to solve the following. Be sure to express your answer in scientific notation even if your calculator does not.

1. $(3.0 \times 10^3) + (5.0 \times 10^3)$ $\underline{8.0 \times 10^3}$

2. $(6.9 \times 10^3)(2.455 \times 10^4)$ $\underline{1.7 \times 10^8}$

3. $\frac{(4.3 \times 10^9)(3.1 \times 10^{-3})}{(5.0214 \times 10^5)}$ $\underline{2.7 \times 10^1}$

4. $(4.58 \times 10^{-5}) \div (3.2 \times 10^{-2})$ $\underline{1.4 \times 10^{-3}}$