

7-4 Scientific Notation**Express each number in scientific notation. (2 pts each)**

1.) 3,400,000

2.) 0.00312

3.) 2,091,000,000

4.) 0.000009802

Express each number in standard form. (2 pts each)

5.) 2.1×10^5

6.) 8.023×10^{-7}

7.) 3.63×10^{-6}

8.) 7.15×10^8

Evaluate each product. Express the results in both scientific notation and standard form. (4 pts each)

9.) $(6.1 \times 10^5)(2 \times 10^5)$

10.) $(4.4 \times 10^6)(1.6 \times 10^{-9})$

11.) $(8.8 \times 10^8)(3.5 \times 10^{-13})$

12.) $(1.35 \times 10^8)(7.2 \times 10^{-4})$

Evaluate each quotient. Express the results in both scientific notation and standard form. (4 pts each)

13.) $\frac{(9.2 \times 10^{-8})}{(2 \times 10^{-6})}$

14.) $\frac{(4.8 \times 10^4)}{(3 \times 10^{-5})}$

15.) $\frac{(1.161 \times 10^{-9})}{(4.3 \times 10^{-6})}$

16.) $\frac{(4.625 \times 10^{10})}{(1.25 \times 10^4)}$