

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

**WS 10E.1 – Scientific Notation**

#1-6, Express each number in scientific notation.

1. 3,000,000

2. 0.00004

3. 531,000

4. 0.0000000205

5. 81,000,000,000,000

6. 0.000000000000713

#7-12, Express each number in standard decimal notation.

7.  $5 \times 10^4$

8.  $5 \times 10^{-4}$

9.  $6.23 \times 10^6$

10.  $6.23 \times 10^{-6}$

11.  $4.012 \times 10^8$

12.  $4.012 \times 10^{-8}$

#13-18, Simplify. Express answers in scientific notation.

13.  $(3 \times 10^8)(2 \times 10^7)$

14.  $(9 \times 10^4)(4 \times 10^9)$

15.  $(4.6 \times 10^{-3})(2.1 \times 10^{-5})$

16.  $\frac{8 \times 10^{18}}{4 \times 10^6}$

17.  $\frac{8 \times 10^8}{2 \times 10^{20}}$

18.  $\frac{9 \times 10^{-7}}{3 \times 10^{-12}}$