Scientific Notation

Name: _____ Date: _____

Convert each number from scientific notation to real.

(1) 3.242×10^{1}

(2) 6.748×10^{-2}

(3) 8.253×10^{5}

(4) 4.294×10^{-1}

(5) 9.124×10^{-1}

(6) 7.569×10^{1}

(7) 1.267×10^{-5}

(8) 7.694×10^{4}

(9) 1.723×10^{1}

(10) 8.897×10^{-3}

Convert each number from real to scientific notation.

(11) 7,263

(12) 58.43

(13) 2.956

(14) 587.9

(15) 9.565

(16) 0.05827

(17) 0.3995

(18) 197.3

(19) 0.0003437

(20) 0.00004472

Name _____ Date _____ Class _____

MATH HANDBOOK TRANSPARENCY WORKSHEET 2

Operations with Scientific Notation

Use with Appendix B, Operations with Scientific Notation

1. Perform the following operations and express the answers in scientific notation.
   a. $(1.2 \times 10^{5}) + (5.35 \times 10^{6})$
   b. $(6.91 \times 10^{-2}) + (2.4 \times 10^{-3})$
   c. $(9.70 \times 10^{6}) \div (8.3 \times 10^{5})$
   d. $(3.67 \times 10^{2}) - (1.6 \times 10^{1})$
   e. $(8.41 \times 10^{-5}) - (7.9 \times 10^{-6})$
   f. $(1.33 \times 10^{5}) - (4.9 \times 10^{4})$

2. Perform the following operations and express the answers in scientific notation.
   a. $(4.3 \times 10^{8}) \times (2.0 \times 10^{6})$
   b. $(6.0 \times 10^{3}) \times (1.5 \times 10^{-2})$
   c. $(1.5 \times 10^{-2}) \times (8.0 \times 10^{-1})$
   d. $\dfrac{7.8 \times 10^{3}}{1.2 \times 10^{4}}$
   e. $\dfrac{8.1 \times 10^{-2}}{9.0 \times 10^{2}}$
   f. $\dfrac{6.48 \times 10^{5}}{(2.4 \times 10^{4})(1.8 \times 10^{-2})}$