

Name _____ Math 8 Period ____
 Date _____ HW # _____ Worksheet on Multiply/Divide Scientific Notation

You may use your calculator to complete these problems. **SHOW YOUR WORK!**
REMEMBER....

- 1) WHEN MULTIPLYING POWERS WITH THE SAME BASE - _____ THE EXPONENTS.
 2) WHEN DIVIDING POWERS WITH THE SAME BASE - _____ THE EXPONENTS.

Put each number in scientific notation.

- 3) 450,000,000 = _____ 4) 0.00098 = _____
 5) 1,200,000,000 = _____ 6) 0.0000004 = _____

Evaluate each expression. Express your answer in **scientific notation**.

7) $(1.1 \times 10^3)(2.5 \times 10^9)$	8) $(3.4 \times 10^4)(2.8 \times 10^5)$
9) $(2.6 \times 10^{-3})(4.9 \times 10^7)$	10) $(8 \times 10^2)(2 \times 10^8)$
11) $\frac{16.32 \times 10^{10}}{5.1 \times 10^5}$	12) $\frac{6.51 \times 10^8}{7 \times 10^5}$
13) $\frac{1.925 \times 10^7}{0.55 \times 10^2}$	14) $\frac{2.376 \times 10^5}{7.2 \times 10^{-2}}$

Review and remember.... **SIMPLIFY!**

15) $9w^3 \cdot -5w^2$	16) $(8h^2)^3$	17) $\frac{15y^{12}}{5y^3}$	18) 9^{-2}
------------------------	----------------	-----------------------------	--------------