

NAME _____

HW # 16

Evaluate each expression. All answers should be in scientific notation.

1. $(3.2 \times 10^4)(2.1 \times 10^2)$

$$\boxed{6.72 \times 10^6}$$

2. $(1.2 \times 10^{-4})(5 \times 10^8)$

$$\boxed{6 \times 10^4}$$

3. $(9.2 \times 10^8)(0.7 \times 10^2)$

$$\boxed{6.44 \times 10^{10}}$$

4. $(3.12 \times 10^{-3})(2.1 \times 10^3)$

$$\boxed{6.552 \times 10^0}$$

5. $\frac{6.4 \times 10^4}{0.8 \times 10^2}$

$$\boxed{8 \times 10^2}$$

6. $\frac{1.44 \times 10^{-5}}{1.2 \times 10^3}$

$$\boxed{1.2 \times 10^{-8}}$$

7. $\frac{6.88 \times 10^4}{2 \times 10^{-2}}$

$$\boxed{3.44 \times 10^6}$$

8. $\frac{3.9 \times 10^{12}}{1.3 \times 10^3}$

$$\boxed{3 \times 10^9}$$

For 9 and 10, make sure your final answer is in scientific notation (hint: coefficient needs to be between 0 and 10).

9. $(12.2 \times 10^7)(2 \times 10^{-2})$

$$24.4 \times 10^5$$

$$\boxed{2.44 \times 10^6}$$

10. $\frac{48 \times 10^5}{3 \times 10^2}$

$$16 \times 10^3$$

$$\boxed{1.6 \times 10^4}$$