**Lesson 2 Homework Practice**

***Powers and Exponents***

**Write each expression using exponents.**

 **1.** 3 • 3 • *m*  **2.**$\left(\frac{1}{4}\right)\left(\frac{1}{4}\right)\left(\frac{1}{4}\right)$

 **3.** 2 • *d* • 5 • *d* • *d* • 5 **4.** *p* • (–9) • *p* • (–9) • *p* • *q* • *q*

 **5.** *g* • (–7) • (–7) • *g* • *h* • (–7) • *h* **6.** *x* • $\frac{1}{8}$ • *x* • *x* • *y* • $\frac{1}{8}$ • *y* • *x*

**7.** $k^{8}•k$ **8.** $t^{7}•t^{6}$ **9.** $w^{2}•w^{2}$

 **10.** $3^{3}•3^{8}$ **11.** $\frac{5^{9}}{5^{3}}$ **12.** $\frac{b^{6}}{b^{4}}$

**Write an expression, expanded form, exponential form and standard form**

**12. BONUSES** A company has set aside $10^{7}$ dollars for annual employee bonuses. If the company has $10^{4}$ employees and the money is divided equally among them, how much will each employee receive?

 **13. CAR LOANS** After making a down payment, Mr. Valle will make $6^{2}$ monthly payments of $6^{3}$ dollars each to pay for his new car. What is the total of the monthly payments?