***Due Monday January 11th***

**7-1 Homework: *Multiplication Properties of Exponents***

**Determine whether each expression is a monomial. Write *yes* or *no*. Explain your reasoning.**

**1.** $\frac{21a^{2}}{7b}$

**2.** $\frac{b^{3}c^{2} }{2}$

**Simplify each expression.**

 **3.** (2*a*$b^{2}f^{2}$)(4$a^{3}b^{2}f^{2}$) **4.** (4$g^{3}$*h*)(–2$g^{5}$)

 **5.** (–15*x*$y^{4}$)$\left(-\frac{1}{3} xy^{3}\right)$  **6.** $(-18m^{2}n)^{2}\left(– \frac{1}{6}mn^{2}\right)$

**7.** $\left( \frac{2}{3}p\right)^{2}$ **8.** $\left( \frac{1}{4}ad^{3}\right)^{2}$

**GEOMETRY Express the area of each figure as a monomial.**

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**9. 10.**

**Write in Scientific Notation**

 **11.** 5,100,000 1**2.** 80,300,000,000 1**3.** 14,250,000

 **14.** 68,070,000,000,000 1**5.** 14,000 1**6.** 901,050,000,000