**7-1 Skills Practice**

***Multiplication Properties of Exponents***

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

 **1.** 11

 **2.** *a* – *b*

 **3.** $\frac{p^{2}}{r^{2}}$

 **4.** *y*

 **5.** $j^{3}$*k*

 **6.** 2*a* + 3*b*

**Simplify.**

 **7.** $a^{2}$($a^{3}$)($a^{6}$) **8.** *x*($x^{2}$)($ x^{7}$)

 **9.** ($y^{2}$*z*)(*y*$z^{2}$) **10.** ($l^{2}k^{2}$)($l^{3}$*k*)

**11.** ($a^{2}b^{4}$)($ a^{2}b^{4}$) **12.** (*c*$d^{2}$)($c^{3}d^{2}$)

**13.** (2$x^{2}$)(3$x^{5}$) **14.** (5$a^{7}$)(4$a^{2}$)

**15.** (4*x*$y^{3}$)(3$x^{3}y^{5}$) **16.** (7$a^{5}b^{2}$)($ a^{2}b^{3}$)

**17.** (–5$m^{3}$)(3$m^{8}$) **18.** (–2$c^{4}$*d*)(–4*cd*)

**19.** $(10^{2})^{3}$ **20.** $(p^{3})^{12}$

**21.** $(-6p)^{2}$ **22.** $(-3y)^{3}$

**23.** $(3pr^{2})^{2}$ **24.** $(2b^{3}c^{4})^{2}$

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

**25. 26. 27.**