**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Period:** \_\_\_\_\_\_\_\_

**Multiplying Monomials**

**Worksheet 455**

**Simplify.**

**1.** *y*($y^{5}) $ **2.** $n^{2}$ ∙ $n^{7}$ **3.** (–7$x^{2}$)($x^{4}$)

**4.** *x*($x^{2}$)($x^{4}$) **5.** *m* ∙ $m^{5}$ **6.** ($-x^{3}$)($-x^{4}$)

**7.** (2$a^{2}$)(8*a*) **8.** (*rs*)(*r*$s^{3}$)($s^{2}$) **9.** ($x^{2}$*y*)(4*x*$y^{3}$)

**10.** $ \frac{1}{3}$(2$a^{3}$*b*)(6$b^{3}$) **11.** (–4$x^{3}$)(–5$x^{7}$) **12.** (–3$j^{2}k^{4}$)(2*j*$k^{6}$)

**13.** (10$x^{3}$*y*$z^{2}$)(–2*x*$y^{5}$*z*) **14.** (–5*xyz*)(4$x^{2}$)($y^{4}$) **15.** $(5a^{2}$*b*$c^{3}$)($\frac{1}{5}$*ab*$c^{4}$)

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Period:** \_\_\_\_\_\_\_\_

**Multiplying Monomials**

**Worksheet 456**

**1.** ($y^{5})^{2}$ **2.** ($n^{7})^{4}$ **3.** ($x^{2})^{5}$($x^{3}$)

**4.** –3(*a*$b^{4})^{3}$ **5.** (–3*a*$b^{4})^{3}$ **6.** (4$x^{2}$*b*$)^{3}$

**7.** (4$a^{2})^{2}$($b^{3}$) **8.** (4*x*$)^{2}$($b^{3}$) **9.** ($x^{2}y^{4})^{5}$

**10.** (–3$j^{2}k^{3})^{2}$(2$j^{2}$*k*$)^{3}$ **11**. (–4*xy*$)^{3}$(–2$x^{2})^{3}$ **12.** (2$a^{3}b^{2}$)($b^{3})^{2}$

**13.** (25$a^{2}$*b*$)^{3}$($\frac{1}{5}$*abc*$)^{2}$ **14.** (2*xy*)(–2$x^{2}$)(4$y^{4}$) **15.** (2$x^{3}y^{2}z^{2})^{3}$($x^{2})^{4}$

**16.** (–2$n^{6}y^{5}$)(–6$n^{3}y^{2}$)(*ny*$)^{3}$ **17.** (–3$a^{3}n^{4}$)(–3$a^{3}$*n*$)^{4}$ **18.** –3(2*x*$)^{4}$(4$x^{5}$*y*$)^{2}$