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

**Multiplying Monomials**

**Worksheet 457**

**Simplify.**

**1.** $a^{2}$($a^{3}$)($a^{6}$) **2.**  *x*($x^{2}$)($x^{7}$) **3.**  ($y^{2}$z)(y$z^{2}$)

**4.** ($l^{2}k^{2}$)($l^{3}$k) **5.**  ($e^{2}f^{4}$)($e^{2}f^{2}$) **6.** (*c*$d^{2}$)($c^{3}d^{2}$)

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

**10.**  (7$a^{5}b^{2}$)($a^{2}b^{3}$) **11.** (–5$m^{3})(3m^{8})$ **12.**  (–2$c^{4}d)(-4cd)$

**13.** ($10^{2})^{3}$ **14.**  ($p^{3})^{12}$ **15.**  (–6*p*$)^{2}$

**16.** (–3*y*$)^{3}$ **17.**  (3*pq*²$)^{2}$ **18.**  (2$b^{3}c^{4})^{2}$

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

**Multiplying Monomials**

**Worksheet 458**

**Simplify.**

**1.** $\left(-5x^{2}y\right)\left(3x^{4}\right)$ **2.** $\left(2ab^{2}c^{2}\right)\left(4a^{3}b^{2}c^{2}\right)$ **3.** $\left(3cd^{4}\right)\left(-2c^{2}\right)$

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

**7.** $\left(\frac{2}{3}p\right)^{2}$ **8.** $\left(\frac{1}{4}cd^{3}\right)^{2}$ **9.** $\left(0.4k^{3}\right)^{3}$

**10.** $\left[\left(4^{2}\right)^{2}\right]^{2}$ **11.** $\left(0.2a^{2}b^{3}\right)^{2}$ **12.** $\left(-xy\right)^{3}\left(xz\right)$