**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_Per:\_\_\_\_\_\_\_\_\_**

**Solving Equations with Variables on Both Sides**

**Worksheet 161**

**Solve each equation. Then check your solution.**

**1.** −3(*x* + 5) = 3(*x* – 1) **2.** 2(7 + 3*t*) = −*t* **3.** 3(*a* + 1) – 5 = 3*a* – 2

**4.** 75 – 9*g* = 5(−4 + 2*g*) **5.** 5(*f* + 2) = 2(3 – *f*) **6.** 4(*p* + 3) = 36

**7.** 18 = 3(2*c* + 2) **8.** 3(*d* – 8) = 3*d* **9.** 5(*p* + 3) + 9 = 3(*p* – 2) + 6

**10.** 4(*b* – 2) = 2(5 – *b*) **11.** 1.2(*x* – 2) = 2 – *x* **12.** 2(4 + 2*k*) + 10 = *k*

**13.** 2(*w* – 1) + 4 = 4(*w* + 1) **14.** 6(*n* – 1) = 2(2*n* + 4) **15.** 2[2 + 3(*y* – 1)] = 22

**16.** −4(*r* + 2) = 4(2 – 4*r*) **17.** −3(*x* – 8) = 24 **18.** 6(2 – 2*y*) = 5(2*y* – 2)