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

**Solving Equations with Variables on Each Side**

**Worksheet 163**

**Solve each equation, then check your solution.**

**1.** 4*k* – 3 = 2*k* + 5 **2.** 2(8*u* + 2) = 3(2*u* – 7) **3.** 2*m* + 12 = 3*m* – 31

**4.** 2*h* – 8 = *h* + 17 **5.** 7*a* − 3 = 3 – 2*a* **6.** 4*n* – 12 = 12 – 4*n*

**7.** 4*x* – 9 = 7*x* + 12 **8.** −6*y* – 3 = 3 – 6*y* **9.** 5 + 3*r* = 5*r* – 19

**10.** −9 + 8*k* = 7 + 4*k* **11.** 8*q* + 12 = 4(3 + 2*q*) **12.** 3(8 – 3*t*) = 5(2 + *t*)

**13.** 6(−3*v* + 1) = 5(−2*v* – 2) **14.** −7(2*b* – 4) = 5(−2*b* + 6)

**15.** 2(3*u* + 7) = −4(3 – 2*u*) **16.** 8(2*f* – 2) = 7(3*f* + 2)

**17.** 5(−6 – 3*d*) = 3(8 + 7*d*) **18.** 6(*w* – 1) = 3(3*w* + 5)

**19.** 7(−3*y* + 2) = 8(3*y* – 2) **20.**  $\frac{2}{3}v-6=6-\frac{2}{3}v$

**21.** 3(5*j* + 2) = 2(3*j* – 6) **22.** $\frac{1}{2}-\frac{5}{8}x=\frac{7}{8}x+\frac{7}{2}$