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

**Solving Equations with Variables on Both Sides**

**Worksheet 162**

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

**1.** 6 – *b* = 5*b* + 30 **2.** 5*y* – 2*y* = 3*y* + 2 **3.** 5*x* + 2 = 2*x* – 10

**4.** 4*n* – 8 = 3*n* + 2 **5.** 1.2*x* + 4.3 = 2.1 **6.** $\frac{1}{2}b+4=\frac{1}{8}b+88$

**7.** 4.4*s* + 6.2 = 8.8*s* – 1.8 **8.** $\frac{3}{4}k-5=\frac{1}{4}k-1$ **9.** 8 – 5*p* = 4*p* – 1

**10.** 4*b* – 8 = 10 – 2*b* **11.** 0.2*x* – 8 = −2 – *x* **12.** −4 – 3*x* = 7*x* – 6

**13.** 3*y* – 1.8 = 3*y* – 1.8 **14.** 8 + 4*k* = −10 + *k* **15.** 20 – *a* = 10*a* – 2

**16.** $\frac{2}{3}n+8=\frac{1}{2}n+2$ **17.** $\frac{2}{5}y-8=9-\frac{3}{5}y$ **18.** −4*r* + 5 = 5 – 4*r*

**19.** 12 + 2*y* = 10*y* – 12 **20.** 18 – 4*k* = −10 – 4*k* **21.** −4 – 3*x* = 6*x* – 6