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

# WS 10-4

# Solving Quadratic Equations by Factoring

**Solve the equation.**

1. $\left(x+2\right)\left(x+3\right)=0$ 2. $\left(t-40\right)\left(t+12\right)=0$

3. $\left(y+3\right)^{2}=0$ 4. $\left(p-4\right)\left(p+4\right)=0$

**Factor the quadratic equation, then solve.**

5. $x^{2}+2x+1=0$ 6. $w^{2}-2w-8=0$

7. $2c^{2}+5c-3=0$ 8. $x^{2}-5x-36=0$

9. $x^{2}+6x-7=0$ 10. $2x^{2}-x-15=0$

11. When we factor, we \_\_\_\_\_\_\_\_\_\_\_ backwards.