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

**Factor Trinomials in the Form *x*² + *bx* + *c***

**Worksheet 537**

**Factor each trinomial.**

**1.** *t*² + 8*t* + 12 **2.** *n*² + 7*n* + 12 **3.** *p*² + 9*p* + 20

**4.** *h*² + 9*h* + 18 **5.** *n*² + 3*n* – 18 **6.** *x*² + 2*x* – 8

**7.** *y*² – 5*y* – 6 **8.** *g*² + 3*g* – 10 **9.** *s*² *+* 4*s* – 12

**10.** *x*² – *x* – 12 **11.** *w*² – *w* – 6 **12.** *y*² – 6*y* + 8

**13.** *x*² – 8*x* + 15 **14.** *b*² – 9*b* + 8 **15.** *c*² – 15*c* + 56

**Solve each equation.**

**16.** *x*² – 6*x* + 8 = 0 **17.** *b*² – 7*b* + 12 = 0 **18.** *m*² + 5*m* + 6 = 0

**19.** *d*² + 7*d* + 10 = 0 **20.** *y*² – 2*y* – 24 = 0 **21.** *p*² – 3*p* = 18

**22.** *h*² + 2*h* = 35 **23.** *a*² + 14*a* = –45 **24.** *n*² – 36 = 5*n*