

Skill: Factoring Quadratic Equations**Investigation 3****Say It With Symbols**

Write each of these quadratic expressions in equivalent factored form.

1. $x^2 - 8x + 12$

2. $x^2 + 7x - 18$

3. $n^2 - 7n + 10$

4. $s^2 - 5s - 14$

5. $2x^2 + 3x + 1$

6. $3x^2 - x - 4$

7. $5x^2 - 2x - 7$

8. $3y^2 - 16y - 12$

9. $x^2 - 9$

10. $n^2 - 4$

11. $a^2 - 25$

12. $a^2 - 100$

Skill: Factoring Expressions**Investigation 2****Frogs, Fleas, and Painted Cubes**

Use the Distributive Property to factor each expression.

1. $x^2+8x+16$

2. d^2+8d+7

3. y^2+6y+8

4. b^2-2b-3

5. s^2-4s-5

6. $x^2+12x+32$

7. $x^2-9x+20$

8. x^2-5x+6

9. a^2+3a+2

10. p^2-8p+7

11. d^2+6d+5

12. n^2+n-6

13. $x(a-2)-2(a+2)$

14. $3(x+y) + a(x+y)$

15. $m(x-3) - k(x-3)$