

Chapter 17: Quadratic Algebra Time Allowed: 4 Weeks	Different Techniques for Solving Quadratic Equations	
Topic	Exercise	Initials
Quadratic Equations: $ax^2 + bx + c = 0$ Definitions Identifying Quadratic Equations	17A: Fluency: 1 a, b, c, e, f, h, I, j, l 2 c, f, g, I 3 a, b Understanding: 4, 6	
Solving Quadratic Equations of the form $(x - a)(x - b) = 0$ Null Factor Law	17B: Fluency 1 Middle and RH Column 2 c, d, e, g, h 3 b, d, f, h 4 All Understanding: 6, 8 Reasoning: 9, 11	
Factorization using <ul style="list-style-type: none"> • Difference of Two Squares • Perfect square Identities 	17C: Fluency 1 b, c, e, f, h, i 2 b, c, e, f, h, i 3a, b, c, e, f, g, h 4 RH Column 5 RH Column 6 All Understanding: 7, 9, 10 Reasoning: 12 a, b, d, e, f 13	
Solving Quadratic Equations: <ul style="list-style-type: none"> • where $b = 0$ $ax^2 + c = 0$ • where $c = 0$ $ax^2 + bx = 0$ 	17D: Fluency 1 a, c, e, g, h, j, l, m, n 2 a, c, e, g, , j, l, n 3 All Understanding: 4, 5 Reasoning: 7, 8	
Factorizing Quadratic Trinomials when $a = 1$ $x^2 + bx + c$	17E: Fluency: 1-30 All Understanding: 31, 34 Reasoning: 35, 36	
Factorizing Quadratic Trinomials where $a \neq 1$ $ax^2 + bx + c$ <ul style="list-style-type: none"> • Removing a Common Factor • Cross Product Method • ac Method 	17F: Fluency 1 Middle and RH Columns, 2 Middle and RH Columns, 3 All Understanding: 4 b, d 5 a Reasoning: 6	
Solving Quadratic Equations with Three terms: $ax^2 + bx + c = 0$ by Factorizing and using the Null Factor Law	17G: Fluency 1 Middle and RH Column, 2 Middle and RH Column, 3 All Understanding: 4, 5 All, 6 All, 7, 8 Reasoning: 9, 10	
Solving Quadratic Equations expressed in Turning point form: $a(x - h)^2 + k = 0$	17H: Fluency: 1 Middle and RH Column, 2 Understanding: 3	
Problem Solving with Quadratic Equations	17I: Fluency: 1, 2, 3, 4, 5 Understanding: 6, 7, 8, 9, 11 Reasoning: 13, 14, 15	
Simplifying Algebraic Fractions	17J: Fluency 1 RH Column 2 c, f, i, l 3 RH Column Understanding: 4 RH Column 5 RH Column 6 RH Column	
CHAPTER REVIEW	Chapter 17 Review Fluency: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 RH Column, 16 RH Column, 17 RH Column, 18 RH Column, 19 All, 20 All, 21: b, d, f	