



# Algebra 2

© 2008

STANDARDS	PAGE REFERENCES
<b>M11.A Numbers and Operations</b>	
<b>ASSESSMENT ANCHOR</b>	
<b>M11.A.1</b>	<b>Demonstrate an understanding of numbers, ways of representing numbers, relationships among numbers and number systems.</b>
<b>M11.A.1.1</b>	Represent and/or use numbers in equivalent forms (e.g., integers, fractions, decimals, percents, square roots, exponents and scientific notation). <i>Reference: 2.1.8.A, 2.1.8.B, 2.1.11.A</i>
<p><b>M11.A.1.1.1</b> Find the square root of an integer to the nearest tenth using either a calculator or estimation.</p>	<p><b>Teacher Wraparound Edition:</b> TNT 564 Simplifying the square root of an integer can be found on the following pages: <b>Student Edition:</b> 259-260, 264 #1-#2, #5-#6, #22-#23, #26-#27, 403, 405 #2, #9, #13-#16, #37-#38 <i>Extra Practice</i> 900 5-4 #1 <i>Mid-Chapter Quiz</i> 267 #17 <i>Study Guide and Review</i> 304 #30, 432 #31, #33 <b>Teacher Wraparound Edition:</b> AE 260</p>

STANDARDS	PAGE REFERENCES
<p><b>M11.A.1.1.2</b> Express numbers and/or simplify expressions using scientific notation (including numbers less than 1).</p>	<p><b>Student Edition:</b> 315-317, 330 #52, 390 #63, 470 #45-#47, 471 #59 <i>Extra Practice</i> 902 6-1 #25-#27 <i>Mid-Chapter Quiz</i> 348 #4 <i>Study Guide and Review</i> 375 #15</p> <p><b>Teacher Wraparound Edition:</b> AE 315 #5</p>
<p><b>M11.A.1.1.3</b> Simplify square roots. (e.g., <math>\sqrt{24} = 2\sqrt{6}</math>)</p>	<p><b>Student Edition:</b> 259-260, 264 #1-#2, #5-#6, #22-#23, #26-#27, 403, 405 #2, #9, #13-#16, #37-#38 <i>Extra Practice</i> 900 5-4 #1 <i>Mid-Chapter Quiz</i> 267 #17 <i>Study Guide and Review</i> 304 #30, 432 #31, #33</p> <p><b>Teacher Wraparound Edition:</b> AE 260</p>
<p><b>M11.A.1.2</b> Apply number theory concepts to show relationships between real numbers in problem-solving settings. <i>Reference: 2.1.8.E</i></p>	
<p><b>M11.A.1.2.1</b> Find the Greatest Common Factor (GCF) and/or the Least Common Multiple (LCM) for sets of monomials.</p>	<p><b>Student Edition:</b> 450 Example 1, 453 #1-#4, 454 #18-#21</p> <p><b>Teacher Wraparound Edition:</b> AE 451</p> <p>Finding the GCF to solve equations can be found on the following pages:</p> <p><b>Student Edition:</b> 254-257, 275 #71-#73, 349-350, 353 #1-#8, #14-#23, 361 #48-#51, 368 #55-#57 <i>Mid-Chapter Quiz</i> 267 #10-#13 <i>Study Guide and Review</i> 304 #23-#28, 377 #38-#41</p>

STANDARDS	PAGE REFERENCES
<p><b>M11.A.1.3</b> Estimate the value of an irrational number. <i>Reference: 2.2.8.C</i></p>	
<p><b>M11.A.1.3.1</b> Locate/identify irrational numbers at the approximate location on a number line.</p>	<p><b>Student Edition:</b> 11, 498 Irrational numbers also can be found on the following pages: <b>Student Edition:</b> 12, 15 #1-#3, #14-#21, 39 #67-#68, 404 Example 3, 405 #9-#11, #37-#48 <i>Study Guide and Review</i> 50 #21-#22 <b>Teacher Wraparound Edition:</b> FMC 14</p>
<p><b>M11.A.1.3.2</b> Compare and/or order any real numbers (rational and irrational may be mixed).</p>	<p>Properties of real numbers can be found on the following pages: <b>Student Edition:</b> 11-17, 31 #58-#59, 39 #69, 48 #66 <i>Practice Test</i> 53 #9-#14 <i>Study Guide and Review</i> 50 #26-#27 <b>Teacher Wraparound Edition:</b> AE 12</p>
<p><b>ASSESSMENT ANCHOR</b></p>	
<p><b>M11.A.2 Understand the meanings of operations, use operations and understand how they relate to each other.</b></p>	
<p><b>M11.A.2.1</b> Apply ratio and/or proportion in problem-solving situations. <i>Reference: 2.2.11.A, 2.8.11.P</i></p>	
<p><b>M11.A.2.1.1</b> Solve problems using operations with rational numbers including rates and percents (single and multi-step and multiple procedure operations) (e.g., distance, work and mixture problems, etc.).</p>	<p>This standard can be met throughout the textbook. Specific examples are found on the following pages: <b>Student Edition:</b> 8 #7-#8, 14 Example 4, 15 #10-#11, 16 #35, #44-#45, 22 Example 8, 23 #16, 67 Example 2, 69 #20-#21, 72 Example 2, 75 #27-#28, 81 Example 3, 117 Example 3, 150 #22-#23, 316 #28 <i>Mid-Chapter Quiz</i> 85 #15-#17 <i>Practice Test</i> 157 #16 <i>Standardized Test Practice</i> 54 #1, 113 #11e, 159 #11c <b>Teacher Wraparound Edition:</b> AE 14 #4, 67 #2</p>

STANDARDS	PAGE REFERENCES
<p><b>M11.A.2.1.2</b> Solve problems using direct and inverse proportions.</p>	<p><b>Student Edition:</b> 465-471, 478 #40, 486 #47 <i>Mid-Chapter Quiz</i> 472 #20-#25 <i>Practice Test</i> 493 #17-#20, #22-#23 <i>Standardized Test Practice</i> 494-495 #2, #12 <i>Study Guide and Review</i> 491 8-4</p> <p><b>Teacher Wraparound Edition:</b> AE 466-467; PAP 471</p>
<p><b>M11.A.2.1.3</b> Identify and/or use proportional relationships in problem-solving settings.</p>	<p><b>Student Edition:</b> 465-471, 478 #40, 486 #47 <i>Mid-Chapter Quiz</i> 472 #20-#25 <i>Practice Test</i> 493 #17-#20, #22-#23 <i>Prerequisite Skills</i> 879 Example 2, 880 Example 3, #7-#12 <i>Standardized Test Practice</i> 54-55 #7, #10, 494-495 #2, #12 <i>Study Guide and Review</i> 491 8-4</p> <p><b>Teacher Wraparound Edition:</b> AE 466-467</p>
<p><b>M11.A.2.2</b> Use exponents, roots and/or absolute value to solve problems. <i>Reference: 2.1.11.A</i></p>	
<p><b>M11.A.2.2.1</b> Simplify/evaluate expressions involving positive and negative exponents, roots and/or absolute value (may contain all types of real numbers - exponents should not exceed power of 10).</p>	<p><b>Student Edition:</b> 6-10, 14 Example 5, 15-17 #11-#13, #36-#43, #67-#75, 26 #75-#78, 27 Example 1, 29-30 #1-#3, #15-#22, #43-#45, 31 #61, 48 #68-#72, 320-324, 325-331, 442-449, 452 Examples 4 and 5 <i>Mid-Chapter Quiz</i> 32 #1-#6, 348 #1-#8, #10-#14 <i>Practice Test</i> 53 #1-#5, 379 #1-#6 <i>Study Guide and Review</i> 50 1-1, 1-2 #23-#25, 375</p> <p><b>Teacher Wraparound Edition:</b> AE 7-8</p>
<p><b>M11.A.2.2.2</b> Simplify/evaluate expressions involving multiplying with exponents (e.g., <math>x^6 * x^7 = x^{13}</math>), powers of powers (e.g., <math>(x^6)^7 = x^{42}</math>) and powers of products (<math>(2x^2)^3 = 8x^6</math> (positive exponents only)).</p>	<p><b>Student Edition:</b> 312-317, 324 #59-#60, #62, 417 Example 4, 419-420 #10, #29-#30, #35-#38 <i>Mid-Chapter Quiz</i> 348 #1, #3 <i>Practice Test</i> 379 #1, 435 #20-#21 <i>Standardized Test Practice</i> 380 #4 <i>Study Guide and Review</i> 375 6-1</p> <p><b>Teacher Wraparound Edition:</b> A 318; AE 313-315</p>

STANDARDS		PAGE REFERENCES
<b>ASSESSMENT ANCHOR</b>		
<b>M11.A.3 Compute accurately and fluently and make reasonable estimates.</b>		
<b>M11.A.3.1</b> Apply the order of operations in computation and in problem-solving situations. <i>Reference: 2.2.8.A</i>		
<b>M11.A.3.1.1</b> Simplify/evaluate expressions using the order of operations to solve problems (any rational numbers may be used).	<b>Student Edition:</b> 6-10, 14 Example 5, 15-16 #12-#13, #36-#43, 26 #75-#79, 27 Example 1, 29 #1-#3, 30 #15-#22, 48 #68-#69, 312-317, 321-324, 325-330, 442-449, 451 Example 3, 452-455 <i>Mid-Chapter Quiz</i> 32 #1-#7, #15 <i>Practice Test</i> 53 #1-#5 <i>Study Guide and Review</i> 50 1-1, #23-#25 <b>Teacher Wraparound Edition:</b> A 10; AE 7-8; FMC 7; TNT 7	
<b>M11.A.3.2</b> Use estimation strategies in problem-solving situations. <i>Reference: 2.2.11.B, 2.2.11.D</i>		
<b>M11.A.3.2.1</b> Use estimation to solve problems.	<b>Student Edition:</b> 248, 249-250 #4-#11, #20-#29, 316 #27, 343 #11c-#18c, 503 #11 <i>Graphing Calculator Lab</i> 252 <i>Standardized Test Practice</i> 55 #11 <b>Teacher Wraparound Edition:</b> AE 764	
<b>M11.B Measurement</b>		
<b>ASSESSMENT ANCHOR</b>		
<b>M11.B.1 Demonstrate an understanding of measurable attributes of objects and figures, and the units, systems and processes of measurement.</b> <b>Not assessed at grade 11.</b>		
<b>ASSESSMENT ANCHOR</b>		
<b>M11.B.2 Apply appropriate techniques, tools and formulas to determine measurements.</b>		
<b>M11.B.2.1</b> Use and/or compare measurements of angles. <i>Reference: 2.3.11.A, 2.3.11.B</i>		
<b>M11.B.2.1.1</b> Measure and/or compare angles in degrees (up to 360°) (protractor must be provided or drawn).	<b>Student Edition:</b> 768-769, 772 #1-#4, #16-#19, #36-#37 <b>Teacher Wraparound Edition:</b> AE 769	

STANDARDS	PAGE REFERENCES
<p><b>M11.B.2.2</b> Use and/or develop procedures to determine or describe measures of perimeter, circumference, area, surface area and/or volume. (May require conversions within the same system.)</p> <p><i>Reference: 2.3.8.A, 2.3.8.D</i></p>	
<p><b>M11.B.2.2.1</b></p> <p>Calculate the surface area of prisms, cylinders, cones, pyramids and/or spheres. Formulas are provided on the reference sheet.</p>	<p><b>Student Edition:</b>  17 #71, 26 #79  <i>Mixed Problem Solving</i> 926 #1, #5  <i>Preparing for Standardized Tests</i> 951 #19  Other problems involving the formula for surface area can be found on the following pages:  <b>Student Edition:</b>  21 Example 6, 24 #46-#47  <i>Mixed Problem Solving</i> 926 #2, #4, #6</p>
<p><b>M11.B.2.2.2</b></p> <p>Calculate the volume of prisms, cylinders, cones, pyramids and/or spheres. Formulas are provided on the reference sheet.</p>	<p><b>Student Edition:</b>  <i>Check Your Progress</i> 8  <i>Mixed Problem Solving</i> 926 #1  <i>Preparing for Standardized Tests</i> 951 #21, 956 #8a  <i>Standardized Test Practice</i> 381 #7, 753 #11  Other problems involving the formula for volume can be found on the following pages:  <b>Student Edition:</b>  9 #24, 367 #42-#43, 371 #7, 372 #35-#37  <i>Mixed Problem Solving</i> 926 #2, 931 #11-#12  <i>Study Guide and Review</i> 51 #39, 107 #22, 378 #64  <b>Teacher Wraparound Edition:</b>  AE 371</p>
<p><b>M11.B.2.2.3</b></p> <p>Estimate area, perimeter or circumference of an irregular figure.</p>	<p><b>Student Edition:</b>  316 #27  Finding the area of composite figures can be found on the following pages:  <b>Student Edition:</b>  715 #47  <i>Preparing for Standardized Tests</i> 943 #8  <i>Standardized Test Practice</i> 309 #10, 617 #6</p>

STANDARDS	PAGE REFERENCES
<p><b>M11.B.2.2.4</b> Find the measurement of a missing length given the perimeter, circumference, area or volume.</p>	<p><b>Student Edition:</b> 24 #43, 25 #63, 353 #37-#38, 354 #50, 355 #68, 367 #43, 370 Example 2, 371 #7, 372 #37, 373 #52, 425 #4 <i>Mixed Problem Solving</i> 928 #16 <i>Study Guide and Review</i> 51 #39, 378 #64 <b>Teacher Wraparound Edition:</b> AE 371 #2; PAP 21</p>
<p><b>M11.B.2.3</b> Describe how a change in one dimension of a figure (2 or 3 dimensional) affects other measurements of that figure. <i>Reference: 2.3.8.E</i></p>	
<p><b>M11.B.2.3.1</b> Describe how a change in the linear dimension of a figure affects its perimeter, circumference, area or volume.</p> <ul style="list-style-type: none"> <li>• How does changing the length of the radius of a circle affect the circumference of the circle?</li> <li>• How does changing the length of the edge of a cube affect the volume of the cube?</li> <li>• How does changing the length of the base of a triangle affect the area of the triangle?</li> </ul>	<p><b>Student Edition:</b> 469 #14 Describing how a change in the surface area of a cube affects the length of the sides can be found on the following page: <b>Student Edition:</b> <i>Standardized Test Practice</i> 54 #4</p>
<p><b>M11.C Geometry</b></p>	
<p><b>ASSESSMENT ANCHOR</b></p>	
<p><b>M11.C.1 Analyze characteristics and properties of two- and three-dimensional geometric shapes and demonstrate understanding of geometric relationships.</b></p>	
<p><b>M11.C.1.1</b> Identify and/or use parts of circles and segments associated with circles. <i>Reference: 2.9.11.F</i></p>	
<p><b>M11.C.1.1.1</b> Identify and/or use the properties of a radius, diameter and/or tangent of a circle (given numbers should be whole).</p>	<p>Writing and graphing equations of circles can be found on the following pages: <b>Student Edition:</b> 574-579, 588 #39-#41, 597 #47 <i>Mid-Chapter Quiz</i> 589 #12-#14 <i>Standardized Test Practice</i> 617 #10 <i>Study Guide and Review</i> 611 10-3 <b>Teacher Wraparound Edition:</b> A 579; AE 575-576</p>

STANDARDS	PAGE REFERENCES
<b>M11.C.1.1.2</b> Identify and/or use the properties of arcs, semicircles, inscribed angles and/or central angles.	See Glencoe's <i>Geometry</i> © 2008.
<b>M11.C.1.2</b> Recognize and/or apply properties of angles, triangles and quadrilaterals. <i>Reference: 2.9.8.D, 2.9.11.C</i>	
<b>M11.C.1.2.1</b> Identify and/or use properties of triangles (e.g., medians, altitudes, angle bisectors, side/angle relationships, Triangle Inequality Theorem).	<b>Student Edition:</b> <i>Mid-Chapter Quiz</i> 32 #23 <i>Standardized Test Practice</i> 112 #4
<b>M11.C.1.2.2</b> Identify and/or use properties of quadrilaterals (e.g., parallel sides, diagonals, bisectors, congruent sides/angles and supplementary angles).	See Glencoe's <i>Geometry</i> © 2008.
<b>M11.C.1.2.3</b> Identify and/or use properties of isosceles and equilateral triangles.	See Glencoe's <i>Geometry</i> © 2008.
<b>M11.C.1.3</b> Use properties of congruence, correspondence and similarity in problem-solving settings involving two- and three-dimensional figures. <i>Reference: 2.9.11.B</i>	
<b>M11.C.1.3.1</b> Identify and/or use properties of congruent and similar polygons or solids.	<b>Student Edition:</b> 187 Example 3, 469 #15 <i>Prerequisite Skills</i> 879-880 <i>Standardized Test Practice</i> 616 #5, 681 #8-#9 <b>Teacher Wraparound Edition:</b> AE 187
<b>M11.C.1.4</b> Solve problems involving right triangles using the Pythagorean Theorem. <i>Reference: 2.10.11.B</i>	
<b>M11.C.1.4.1</b> Find the measure of a side of a right triangle using the Pythagorean Theorem (Pythagorean Theorem included on the reference sheet).	<b>Student Edition:</b> 760-761 Standardized Test Example, 780 Example 5 <i>Get Ready</i> 757 <i>Prerequisite Skills</i> 881-882 The Pythagorean Theorem is used on the following pages: <b>Student Edition:</b> 16, 563, 582, 776, 793

STANDARDS	PAGE REFERENCES
<b>ASSESSMENT ANCHOR</b>	
<b>M11.C.2 Identify and/or apply concepts of transformations or symmetry.</b> Not assessed at grade 11.	
<b>ASSESSMENT ANCHOR</b>	
<b>M11.C.3 Locate points or describe relationships using the coordinate plane.</b>	
<b>M11.C.3.1</b> Solve problems using analytic geometry. <i>Reference: 2.9.11.G</i>	
<b>M11.C.3.1.1</b> Calculate the distance and/or midpoint between 2 points on a number line or on a coordinate plane (formula provided on the reference sheet).	<b>Student Edition:</b> 562-566, 573 #48-#50, 579 #54-#56 <i>Mid-Chapter Quiz</i> 589 #1-#6 <i>Practice Test</i> 615 #1-#6 <i>Standardized Test Practice</i> 616 #1-#2 <i>Study Guide and Review</i> 610 10-1 <b>Teacher Wraparound Edition:</b> A 566; AE 563-564; FMC 563
<b>M11.C.3.1.2</b> Relate slope to perpendicularity and/or parallelism (limit to linear algebraic expressions; slope formula provided on the reference sheet).	<b>Student Edition:</b> 73-76 <i>Graphing Calculator Lab</i> 78 <i>Mid-Chapter Quiz</i> 85 #10 <i>Practice Test</i> 111 #25-#26, #30 <i>Study Guide and Review</i> 108 #27-#28 <b>Teacher Wraparound Edition:</b> AE 73-74; PAP 77
<b>M11.D Algebraic Concepts</b>	
<b>ASSESSMENT ANCHOR</b>	
<b>M11.D.1 Demonstrate an understanding of patterns, relations and functions.</b>	
<b>M11.D.1.1</b> Analyze and/or use patterns or relations. <i>Reference: 2.8.11.Q, 2.8.11.A, 2.8.11.O</i>	
<b>M11.D.1.1.1</b> Analyze a set of data for the existence of a pattern and represent the pattern algebraically and/or graphically.	<b>Student Edition:</b> 622-628, 636-641, 658-662 <i>Algebra Lab</i> 663 <i>Mid-Chapter Quiz</i> 656 #3-#5, #8, #10 <i>Practice Test</i> 679 #1-#3, #6-#8, #15-#16 <i>Spreadsheet Lab</i> 657 <i>Standardized Test Practice</i> 680-681 #2-#5, #11 <i>Study Guide and Review</i> 675-677 11-1, 11-3, 11-6 <b>Teacher Wraparound Edition:</b> A 628; AE 623-625, 637-638, 659-660; PAP 662

STANDARDS	PAGE REFERENCES
<p><b>M11.D.1.1.2</b> Determine if a relation is a function given a set of points or a graph.</p>	<p><b>Student Edition:</b> 58-64, 70 #61-#62, 355 #69-#70 <i>Algebra Lab</i> 394 <i>Mid-Chapter Quiz</i> 85 #1, #5 <i>Practice Test</i> 111 #1-#2 <i>Study Guide and Review</i> 107 #7-#10, #15 <b>Teacher Wraparound Edition:</b> AE 59-60; FMC 59; PAP 64</p>
<p><b>M11.D.1.1.3</b> Identify the domain, range or inverse of a relation (may be presented as ordered pairs or a table).</p>	<p><b>Student Edition:</b> 58-64, 70 #61-#62, 391-396, 398 Example 1, 498 Example 1, 503-504 #4-#5, #18-#21 <i>Geometry Software Lab</i> 511 #6 <i>Graphing Calculator Lab</i> 399 #2, 499 #4 <i>Mid-Chapter Quiz</i> 85 #1, #4, 407 #9-#11, #15-#19 <i>Practice Test</i> 111 #1-#2 <i>Study Guide and Review</i> 107 #7-#10, #15, 110 #39-#44 <b>Teacher Wraparound Edition:</b> AE 59, 60 #3, 392-393; DI 392; PAP 396</p>
<p><b>ASSESSMENT ANCHOR</b></p> <p><b>M11.D.2 Represent and/or analyze mathematical situations using numbers, symbols, words, tables and/or graphs.</b></p> <p><b>M11.D.2.1 Write, solve and/or graph linear equations and inequalities using various methods.</b> <i>Reference: 2.8.8.F, 2.8.11.D, 2.8.11.H, 2.8.11.J, 2.8.11.N, 2.8.11.L, 2.8.11.K</i></p>	
<p><b>M11.D.2.1.1</b> Solve compound inequalities and/or graph their solution sets on a number line (may include absolute value inequalities).</p>	<p><b>Student Edition:</b> 41-48, 70 #63-#64, 77 #64, 84 #47 <i>Practice Test</i> 53 #24-#26 <i>Study Guide and Review</i> 52 1-6 <b>Teacher Wraparound Edition:</b> AE 42; FMC 43; TNT 42</p>
<p><b>M11.D.2.1.2</b> Identify or graph functions, linear equations or linear inequalities on a coordinate plane.</p>	<p><b>Student Edition:</b> 58-63, 66-70, 71-77, 95-101, 102-105 <i>Mid-Chapter Quiz</i> 85 #10 <i>Practice Test</i> 111 #1-#2, #5-#15, #20-#22 <i>Reading Math</i> 65 <i>Standardized Test Practice</i> 112 #1 <i>Study Guide and Review</i> 107-110 2-1, 2-3, 2-6, 2-7 <b>Teacher Wraparound Edition:</b> AE 59-60, 68 #4, 72-74, 96-98, 103 #1; PAP 70, 77, 98</p>

STANDARDS	PAGE REFERENCES
<p><b>M11.D.2.1.3</b> Write, solve and/or apply a linear equation (including problem situations).</p>	<p><b>Student Edition:</b> 66-70, 79-84, 101 #57-#58 <i>Mid-Chapter Quiz</i> 85 #17-#20 <i>Practice Test</i> 111 #23-#26 <i>Study Guide and Review</i> 107-108 2-2, 2-4 <b>Teacher Wraparound Edition:</b> AE 67 #2, 68, 80-82; PAP 81</p>
<p><b>M11.D.2.1.4</b> Write and/or solve systems of equations using graphing, substitution and/or elimination (limit systems to 2 equations).</p>	<p><b>Student Edition:</b> 116-122, 123-129, 130-135, 144 #46-#50, 152 #36-#38 <i>Graphing Calculator Lab</i> 136 <i>Mid-Chapter Quiz</i> 137 <i>Practice Test</i> 157 #1-#10 <i>Standardized Test Practice</i> 158-159 #1-#2, #4-#8, #10-#11 <i>Study Guide and Review</i> 154-155 3-1, 3-2, 3-3 <b>Teacher Wraparound Edition:</b> AE 117, 124-126, 131; FMC 125</p>
<p><b>M11.D.2.1.5</b> Solve quadratic equations using factoring (integers only – not including completing the square or the Quadratic Formula).</p>	<p><b>Student Edition:</b> 253-258, 275 #71-#73 <i>Mid-Chapter Quiz</i> 267 #10-#13 <i>Practice Test</i> 307 #8-#17 <i>Standardized Test Practice</i> 308-309 #3, #7 <i>Study Guide and Review</i> 304 5-3 <b>Teacher Wraparound Edition:</b> A 258; AE 254-255; FMC 255</p>
<p><b>M11.D.2.2</b> Simplify expressions involving polynomials. <i>Reference: 2.8.11.S</i></p>	
<p><b>M11.D.2.2.1</b> Add, subtract and/or multiply polynomial expressions (express answers in simplest form – nothing larger than a binomial multiplied by a trinomial).</p>	<p><b>Student Edition:</b> 320-324, 330 #48-#51, 345 #54-#55 <i>Mid-Chapter Quiz</i> 348 #5-#8 <i>Practice Test</i> 379 #2-#4 <i>Standardized Test Practice</i> 380 #1, #5-#6 <i>Study Guide and Review</i> 375 6-2 <b>Teacher Wraparound Edition:</b> AE 321 #2-#3, 322; FMC 322</p>

STANDARDS	PAGE REFERENCES
<p><b>M11.D.2.2.2</b> Factor algebraic expressions, including difference of squares and trinomials (trinomials limited to the form <math>ax^2+bx+c</math> where <math>a</math> is not equal to 0).</p>	<p><b>Student Edition:</b> 254 Example 2, 256 #4-#6, #17-#20, 349-350, 353-354 #1-#8, #14-#23, #42-#47, #51-#54, 357-359, 361 #48-#51, 368 #55-#57, 373 #50-#51 <i>Graphing Calculator Lab</i> 351 <i>Practice Test</i> 379 #7-#14 <i>Prerequisite Skills</i> 877-878 <i>Study Guide and Review</i> 377 #38-#41, #50-#52 <b>Teacher Wraparound Edition:</b> AE 254 #2, 350 #3B, 358</p>
<p><b>M11.D.2.2.3</b> Simplify algebraic fractions.</p>	<p><b>Student Edition:</b> 442-449, 451-452, 453-454 #5-#16, #22-#33, #40-#50, 456 #64-#65, 463 #57-#59, 471 #56-#58 <i>Mid-Chapter Quiz</i> 472 #1-#11 <i>Practice Test</i> 493 #1-#6 <i>Study Guide and Review</i> 490 8-1, #16-#22 <b>Teacher Wraparound Edition:</b> AE 443-446, 451 #3, 452; FMC 452; I 452</p>
<p><b>ASSESSMENT ANCHOR</b> <b>M11.D.3 Analyze change in various contexts.</b> <b>M11.D.3.1 Describe and/or determine change.</b> <i>Reference: 2.8.8.J, 2.11.8.B</i></p>	
<p><b>M11.D.3.1.1</b> Identify, describe and/or use constant or varying rates of change.</p>	<p><b>Student Edition:</b> 71, 72 Example 2, 74-75 #6-#8, #25-#29, 81 Example 3, 82-83 #10, #23-#24, 87-90, 324 #74, 544-550 <i>Graphing Calculator Lab</i> 551 <i>Mid-Chapter Quiz</i> 85 #15-#16 <b>Teacher Wraparound Edition:</b> AE 72 #2, 81 #3, 546 #3, 547; RWC 72</p>
<p><b>M11.D.3.1.2</b> Determine how a change in one variable relates to a change in a second variable (e.g., <math>y=4/x</math>, if <math>x</math> doubles, what happens to <math>y</math>?).</p>	<p><b>Student Edition:</b> 469 #14, 596 #39 <i>Standardized Test Practice</i> 54 #4 <b>Teacher Wraparound Edition:</b> PAP 471</p>

STANDARDS	PAGE REFERENCES
<p><b>M11.D.3.2</b> Compute and/or use the slope of a line.  <i>Reference: 2.8.11.J, 2.8.11.L</i></p>	
<p><b>M11.D.3.2.1</b>  Apply the formula for the slope of a line to solve problems (formula given on reference sheet).</p>	<p><b>Student Edition:</b>  71-77, 79-84, 86-91, 101 #55-#58, 453 Example 6, 454 #35  <i>Mid-Chapter Quiz</i> 85 #9-#16, #18  <i>Practice Test</i> 111 #16-#19, #27-#29  <i>Standardized Test Practice</i> 113 #8, #11  <i>Study Guide and Review</i> 108-109 2-3, 2-4, 2-5  <b>Teacher Wraparound Edition:</b>  A 77; AE 72-74, 80 #2, 81, 88, 453; FMC 72</p>
<p><b>M11.D.3.2.2</b>  Given the graph of the line, 2 points on the line, or the slope and a point on a line, write or identify the linear equation in point-slope, standard and/or slope-intercept form.</p>	<p><b>Student Edition:</b>  67 Example 3, 68-69 #5-#7, #22-#27, #35-#40, 79-84, 91 #23-#25, 101 #57-#58  <i>Mid-Chapter Quiz</i> 85 #6, #17-#19  <i>Practice Test</i> 111 #23-#26  <i>Study Guide and Review</i> 107 #18-#19, 108 2-4  <b>Teacher Wraparound Edition:</b>  AE 68 #3, 80-82; FMC 81</p>
<p><b>M11.D.3.2.3</b>  Compute the slope and/or y-intercept represented by a linear equation or graph.</p>	<p><b>Student Edition:</b>  72 Example 2, 75 #25-#26, 77 #55, 81 Example 3a, 82-83 #7-#8, #21-#22, #25-#26, 258 #61-#62, 283 #64-#65  <i>Mid-Chapter Quiz</i> 85 #15-#16  <i>Practice Test</i> 111 #16-#17  <b>Teacher Wraparound Edition:</b>  AE 72 #2; PAP 77</p>

STANDARDS	PAGE REFERENCES
<b>ASSESSMENT ANCHOR</b>	
<b>M11.D.4 Describe or use models to represent quantitative relationships.</b>	
<b>M11.D.4.1</b> Interpret and/or use linear, quadratic and/or exponential functions and their equations, graphs or tables. <i>Reference: 2.8.11.K, 2.8.11.Q</i>	
<b>M11.D.4.1.1</b> Match the graph of a given function to its table or equation.	<b>Student Edition:</b> 91 #21, 300 #51, 345 #44, 373 #39, 401 #34, 475 Example 2, 476-477 #4-#5, #24-#27, 478 #38, 828 #42, #44, 836 #48 <i>Practice Test</i> 435 #7, 871 #25 <i>Standardized Test Practice</i> 112-113 #1, #7-#8, 308 #6, 436 #4, 559 #5
<b>M11.E Data Analysis and Probability</b>	
<b>ASSESSMENT ANCHOR</b>	
<b>M11.E.1 Formulate or answer questions that can be addressed with data and/or organize, display, interpret or analyze data.</b>	
<b>M11.E.1.1</b> Appropriately display and/or use data in problem-solving settings. <i>Reference: 2.6.11.A, 2.6.8.E</i>	
<b>M11.E.1.1.1</b> Create and/or use appropriate graphical representations of data, including box-and-whisker plots, stem-and-leaf plots or scatter plots.	<b>Student Edition:</b> 86-91, 101 #54, 105 #47, 699-700 Example 3, #6-#7, 701 #22-#27, #29-#31, 722 #31-#33, #37 <i>Extra Practice</i> 894 2-5 <i>Practice Test</i> 111 #27 <i>Prerequisite Skills</i> 885-890 <i>Study Guide and Review</i> 109 2-5 <b>Teacher Wraparound Edition:</b> AE 87-88, 699; PAP 91
<b>M11.E.1.1.2</b> Analyze data and/or answer questions based on displayed data (box-and-whisker plots, stem-and-leaf plots or scatter plots).	<b>Student Edition:</b> 86-91, 101 #55-#56, 105 #48-#49, 699-700 Example 3, #6-#7, 701 #22-#27, #29-#31, 722 #31-#33, #37 <i>Extra Practice</i> 894 2-5 <i>Practice Test</i> 111 #28-#29 <i>Prerequisite Skills</i> 886-888, 890 <i>Study Guide and Review</i> 109 2-5 <b>Teacher Wraparound Edition:</b> AE 87-88, 699; PAP 91

STANDARDS		PAGE REFERENCES
<b>ASSESSMENT ANCHOR</b>		
<b>M11.E.2 Select and/or use appropriate statistical methods to analyze data.</b>		
<b>M11.E.2.1 Use measures of central tendency to describe a set of data.</b> <i>Reference: 2.6.8.A, 2.6.11.A</i>		
<b>M11.E.2.1.1</b> Calculate or select the appropriate measure of central tendency (mean, mode or median) of a set of data given or represented on a table, line plot or stem-and-leaf plot.	<b>Student Edition:</b> 717-722, 739 #45 <i>Algebra Lab 734 #2</i> <i>Extra Practice 12-6</i> <i>Prerequisite Skills 883-884</i> <i>Standardized Test Practice 752 #1, #3</i> <i>Study Guide and Review 748 12-6</i> <b>Teacher Wraparound Edition:</b> AE 718	
<b>M11.E.2.1.2</b> Calculate and/or interpret the range, quartiles and interquartile range of data.	<b>Student Edition:</b> <i>Prerequisite Skills 884, 889-890</i>	
<b>M11.E.2.1.3</b> Describe how outliers affect measures of central tendency.	<b>Student Edition:</b> <i>Graphing Calculator Lab 719</i> Outliers are also found on the following pages: <b>Student Edition:</b> <i>Prerequisite Skills 889-890</i> <i>Real-World Example 88d</i> <i>Study Tip 88</i>	
<b>ASSESSMENT ANCHOR</b>		
<b>M11.E.3 Understand and/or apply basic concepts of probability or outcomes.</b>		
<b>M11.E.3.1 Apply probability and/or odds to practical situations.</b> <i>Reference: 2.7.11.A, 2.7.11.E</i>		
<b>M11.E.3.1.1</b> Find probabilities for independent, dependent or compound events and represent as a fraction, decimal or percent).	<b>Student Edition:</b> 697-702, 703-709, 710-715, 723 #42-#47, 728 #34-#36, 729-733, 735-739, 744 #31-#33, #35 <i>Mid-Chapter Quiz 716 #9-#19, #21</i> <i>Practice Test 751 #10-#11, #14, #16-#20</i> <i>Quick Check 683 #1-#8</i> <i>Standardized Test Practice 752-753 #4-#5, #12c</i> <i>Study Guide and Review 746-749 12-3, 12-4, 12-5, 12-8, 12-9</i> <b>Teacher Wraparound Edition:</b> A 709; AE 698-699, 704-706, 711-712; PAP 702, 707	

STANDARDS	PAGE REFERENCES
<p><b>M11.E.3.1.2</b> Find, convert and/or compare the probability and/or odds of a simple event.</p>	<p><b>Student Edition:</b> <i>Quick Check</i> 683 #1, #3, #7 <i>Simple event</i> is discussed on page 710.</p>
<p><b>M11.E.3.2</b> Apply counting techniques in problem-solving settings. <i>Reference: 2.7.8.A</i></p>	
<p><b>M11.E.3.2.1</b> Determine the number of permutations and/or combinations or apply the fundamental counting principle (formula provided on the reference sheet).</p>	<p><b>Student Edition:</b> 684-689, 690-695, 702 #41-#44, 709 #57 <i>Mid-Chapter Quiz</i> 716 #1-#6 <i>Practice Test</i> 751 #1-#9, #12-#13, #15, #21 <i>Reading Math</i> 696 <i>Standardized Test Practice</i> 753 #12a and #12b <i>Study Guide and Review</i> 746 12-1, 12-2 <b>Teacher Wraparound Edition:</b> AE 685-686, 691-692; PAP 689</p>
<p><b>ASSESSMENT ANCHOR</b></p>	
<p><b>M11.E.4</b> Develop and/or evaluate inferences and predictions or draw conclusions based on data or data displays.</p>	
<p><b>M11.E.4.1</b> Make predictions using data displays and probability. <i>Reference: 2.7.8.E, 2.6.11.D</i></p>	
<p><b>M11.E.4.1.1</b> Estimate or calculate to make predictions based on a circle, line, bar graph or given situation.</p>	<p><b>Student Edition:</b> 16 #45 <i>Preparing for Standardized Tests</i> 955 #3</p>
<p><b>M11.E.4.1.2</b> Use probability to predict outcomes.</p>	<p><b>Student Edition:</b> 731 Example 3, #4, 732-733 #8, #17, #23, #27 <i>Algebra Lab</i> 734 <i>Study Guide and Review</i> 749 #32 <b>Teacher Wraparound Edition:</b> AE 731</p>
<p><b>M11.E.4.2</b> Analyze and/or interpret data on a scatter plot and/or use a scatter plot to make predictions. <i>Reference: 2.6.11.C, 2.6.11.D</i></p>	
<p><b>M11.E.4.2.1</b> Draw, find and/or write an equation for a line of best fit for a scatter plot.</p>	<p><b>Student Edition:</b> 86-91, 101 #55, 105 #48 <i>Graphing Calculator Lab</i> 92-94 <i>Practice Test</i> 111 #28 <i>Preparing for Standardized Tests</i> 951 #23, 956 #9c <i>Study Guide and Review</i> 109 #36, #38 <b>Teacher Wraparound Edition:</b> AE 87-88; FMC 87; PAP 91</p>

STANDARDS	PAGE REFERENCES
<p><b>M11.E.4.2.2</b>            Make predictions using the equations or graphs of best-fit lines of scatter plots.</p>	<p><b>Student Edition:</b>            86-91, 101 #56, 105 #49  <i>Graphing Calculator Lab</i> 92-94  <i>Practice Test</i> 111 #29  <i>Preparing for Standardized Tests</i> 956 #9d  <i>Study Guide and Review</i> 109 #36, #38</p> <p><b>Teacher Wraparound Edition:</b>            AE 88</p>