



# MathMatters 1

## An Integrated Program

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STANDARDS	PAGE REFERENCES
<b>M11.A Numbers and Operations</b>	
<b>ASSESSMENT ANCHOR</b>	
<b>M11.A.1 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>	
<b>M11.A.1.1.1</b> Find the square root of an integer to the nearest tenth using either a calculator or estimation.	<b>Student Edition:</b> 142-145, 335-337, 425 #25-#26 <i>Are You Ready?</i> 304 #33-#36 <i>Assessment</i> 149 #48-#55 <i>Review</i> 148 Lesson 3-9, 334 Lesson 7-7 <i>Standardized Test Practice</i> 431 #16  <b>Teacher's Edition:</b> 5MW 142, CE 143, 305 #7, 335; EL 143; TT 142

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> 138 Example 4, 139 #52 <i>Review</i> 149 Lesson 3-7 <i>Review and Practice Your Skills</i> 140 #19-#32, 141 #103-#112 <i>Standardized Test Practice</i> 150 #11, 151 #20 <b>Teacher's Edition:</b> CE 137</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> 142-145, 335-337, 425 #25-#26 <i>Are You Ready?</i> 304 #33-#36 <i>Assessment</i> 149 #48-#55 <i>Review</i> 148 Lesson 3-9, 334 Lesson 7-7 <i>Standardized Test Practice</i> 431 #16 <b>Teacher's Edition:</b> 5MW 142, CE 143, 305 #7, 335; EL 143; TT 142</p>
<p><b>M11.A.1.2</b> Apply number theory concepts to show relationships between real numbers in problem-solving settings. <b>Reference: 2.1.8.E</b></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> 414-417 <i>Are You Ready?</i> 392 #1-#6, 393 #15-#28 <i>Review</i> 428 Lesson 9-5 <i>Review and Practice Your Skills</i> 422 #1-#12 <b>Teacher's Edition:</b> 5MW 414; CE 393, 415, 422; DI 415; LI 416; TT 392, 414; TW 396</p>
<p><b>M11.A.1.3</b> Estimate the value of an irrational number. <b>Reference: 2.2.8.C</b></p>	
<p><b>M11.A.1.3.1</b> Locate/identify irrational numbers at the approximate location on a number line.</p>	<p>The following examples include introducing pi and its value; its approximate location on a number line could be demonstrated in these lessons. <b>Student Edition:</b> 80, 118 #1-#4, 143, 145 #50-#61, 240 #1-#2</p>

STANDARDS	PAGE REFERENCES
<p><b>M11.A.1.3.2</b> Compare and/or order any real numbers (rational and irrational may be mixed).</p>	<p><b>Student Edition:</b> 107 #50-#55, 110 #41-#46, 111 #47, 139 #57-#59, 264-267 <i>Are You Ready?</i> 103 #19-#30, 258 #1-#16, 434 #1-#6 <i>MentalMath</i> 264 <i>Review and Practice Your Skills</i> 112 #60-#65 <b>Teacher’s Edition:</b> 5MW 104; CE 103; EL 109; RW 103</p>
<b>ASSESSMENT ANCHOR</b>	
<b>M11.A.2 Understand the meanings of operations, use operations and understand how they relate to each other.</b>	
<b>M11.A.2.1 Apply ratio and/or proportion in problem-solving situations.</b> <i>Reference: 2.2.11.A, 2.8.11.P</i>	
<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><b>Student Edition:</b> 72-73, 84-87, 104-107, 108-111, 118-121, 264-267, 270-273, 274-277, 280-283, 284-287 <i>Are You Ready?</i> 51 #15-#22 <i>MathWorks</i> 269, 289 <b>Teacher’s Edition:</b> AA 266; CE 105, 109, 119, 265, 275; EL 272; LW 282</p>
<p><b>M11.A.2.1.2</b> Solve problems using direct and inverse proportions.</p>	<p><b>Student Edition:</b> 84-87, 223 Example 3, 224 #7-#9, 260-263 <i>Are You Ready?</i> 259 #35-#46 <i>Review</i> 96 Lesson 2-8 <i>Review and Practice Your Skills</i> 88 #25-#54, 268 #1-#24 <b>Teacher’s Edition:</b> CE 85, 223, 261; DI 261; EL 223; WL 262; TT 264</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> 84-87, 223 Example 3, 224 #7-#9, 260-263 <i>Are You Ready?</i> 259 #35-#46 <i>Review</i> 96 Lesson 2-8 <i>Review and Practice Your Skills</i> 88 #25-#54, 268 #1-#24 <b>Teacher’s Edition:</b> CE 85, 223, 261; DI 261; EL 223; LW 86, 262; TT 264</p>

STANDARDS	PAGE REFERENCES
<p><b>M11.A.2.2</b> Use exponents, roots and/or absolute value to solve problems.  <b>Reference: 2.1.11.A</b></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>  105, 106 #5-#8, 136-139, 142-145, 404-407  <i>Are You Ready?</i> 304 #29-#36, 393 #35-#41  <i>Assessment</i> 149 #40-#55  <i>Review</i> 148 Lesson 3-8, Lesson 3-9  <i>Review and Practice Your Skills</i> 140 #33-#72, 141 #113-#134  <b>Teacher’s Edition:</b>  5MW 136; AA 405; CE 137, 143, 405; EL 143; TT 106, 142</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>  136-139, 405-407, 419  <i>Are You Ready?</i> 304 #29-#36  <i>Assessment</i> 149 #40-#47  <i>Review</i> 148 Lesson 3-8  <i>Review and Practice Your Skills</i> 140 #33-#72, 141 #113-#136  <b>Teacher’s Edition:</b>  AA 405; CE 137, 405, 419; EL 407; LW 406</p>
<p><b>ASSESSMENT ANCHOR</b></p>	
<p><b>M11.A.3</b> Compute accurately and fluently and make reasonable estimates.</p>	
<p><b>M11.A.3.1</b> Apply the order of operations in computation and in problem-solving situations.  <b>Reference: 2.2.8.A</b></p>	
<p><b>M11.A.3.1.1</b>  Simplify/evaluate expressions using the order of operations to solve problems (any rational numbers may be used).</p>	<p><b>Student Edition:</b>  114-117, 222  <i>Are You Ready?</i> 207 #37-#42  <i>Assessment</i> 149 #17-#22  <i>Review</i> 147 Lesson 3-3  <i>Review and Practice Your Skills</i> 122 #1-#29  <b>Teacher’s Edition:</b>  AA 115; CE 115, 207; DI 114; LW 116</p>

STANDARDS	PAGE REFERENCES
<p><b>M11.A.3.2</b> Use estimation strategies in problem-solving situations. <i>Reference: 2.2.11.B, 2.2.11.D</i></p>	
<p><b>M11.A.3.2.1</b> Use estimation to solve problems.</p>	<p><b>Student Edition:</b> 21 #15, 30 #11, 53 Example 3, 54 #34, 55 #40, 63 Example 3, 64 #25-#28, 66 #1, 94 Example 3, 92 #13-#16, 260 #1-#4, 460-461 <i>Assessment I97 #3</i> <i>Estimation Tip 53, 261</i> <i>Review and Practice Your Skills 70 #13-#18, 89 #55-#58, 462 #19-#27</i></p> <p><b>Teacher’s Edition:</b> CE 63; EL 460, 461; TT 267</p>
<p><b>M11.B Measurement</b></p>	
<p><b>ASSESSMENT ANCHOR</b></p>	
<p><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></p>	
<p><b>ASSESSMENT ANCHOR</b></p>	
<p><b>M11.B.2 Apply appropriate techniques, tools and formulas to determine measurements.</b></p>	
<p><b>M11.B.2.1</b> Use and/or compare measurements of angles. <i>Reference: 2.3.11.A, 2.3.11.B</i></p>	
<p><b>M11.B.2.1.1</b> Measure and/or compare angles in degrees (up to 360°) (protractor must be provided or drawn).</p>	<p><b>Student Edition:</b> 158 #11, 159 #27-#38 <i>Are You Ready? 155 #7-#10, 35 #15-#20</i> <i>Review and Practice Your Skills 164 #12-#19, 193 #32-#35</i></p> <p><b>Teacher’s Edition:</b> CE 155, 351</p>
<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.) <i>Reference: 2.3.8.A, 2.3.8.D</i></p>	
<p><b>M11.B.2.2.1</b> 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> 194-197 <i>Assessment 201 #25-#30</i> <i>Review 200 Lesson 4-7, Lesson 4-8</i></p> <p><b>Teacher’s Edition:</b> AA 195; CE 195; LW 196</p>

STANDARDS	PAGE REFERENCES
<p><b>M11.B.2.2.2</b> Calculate the volume of prisms, cylinders, cones, pyramids and/or spheres. Formulas are provided on the reference sheet.</p>	<p><b>Student Edition:</b> 184-187, 188-191 <i>Assessment</i> 201 #31-#33 <i>Review</i> 200 Lesson 4-9 <i>Review and Practice Your Skills</i> 192, 193 #59-#62 <b>Teacher's Edition:</b> AA 185; CE 185, 189; EL 184, 189; LW 186, 190</p>
<p><b>M11.B.2.2.3</b> Estimate area, perimeter or circumference of an irregular figure.</p>	<p><b>Student Edition:</b> 90-93 <i>Assessment</i> 97 #16-#17 <i>Review</i> 96 Lesson 2-9 <b>Teacher's Edition:</b> CE 91; EL 91; FG 90; LW 92</p>
<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> 65#37-#41, 69 #40, 83 #31-#33, 187 #25-#28, 191 #25-#30 <b>Teacher's Edition:</b> AA 62, 67; EL 63, 81; LW 68</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. <b>Reference: 2.3.8.E</b></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> 62-65, 66 #4, 69#29-#36, #40, 72-73, 83 #36, 184 #1-#3, 186 #22-#23, 187 #25-#28, 188 #1-#5, 191 #25-#30 <i>Mid-Chapter Quiz</i> 71 #10 <b>Teacher's Edition:</b> CE 367; EL 189</p>

STANDARDS	PAGE REFERENCES
<b>M11.C Geometry</b>	
<b>ASSESSMENT ANCHOR</b>	
<b>M11.C.1 Analyze characteristics and properties of two- and three-dimensional geometric shapes and demonstrate understanding of geometric relationships.</b>	
<b>M11.C.1.1</b> Identify and/or use parts of circles and segments associated with circles. <b>Reference: 2.9.11.F</b>	
<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).	<b>Student Edition:</b> 80-83 <i>Review</i> 96 Lesson 2-7 <i>Review and Practice Your Skills</i> 88 #1-#24, 89 #83-#90 <b>Teacher's Edition:</b> CE 81; EL 81; LW 81
<b>M11.C.1.1.2</b> Identify and/or use the properties of arcs, semicircles, inscribed angles and/or central angles.	See <i>Math Matters 2: An Integrated Program</i> © 2009. <b>Student Edition:</b> 227 ex 2, 228 ex 4, 229 #28, 230 #18, 231 #50, 236 #44, 237 #28-#29, 239 #23 <b>Teacher's Edition:</b> CE 227
<b>M11.C.1.2</b> Recognize and/or apply properties of angles, triangles and quadrilaterals. <b>Reference: 2.9.8.D, 2.9.11.C</b>	
<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> 334-337 <i>Are You Ready?</i> 305 Pythagorean Theorem <i>Review</i> 344 Lesson 7-7 <b>Teacher's Edition:</b> CE 335; EL 335, 336; FG 71; LW 336
<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).	<b>Student Edition:</b> 66 #1-#4, 160-163, 364 <i>Are You Ready?</i> 51 Quadrilaterals, 154 <i>Review and Practice Your Skills</i> 164 #29-#29 <b>Teacher's Edition:</b> AA 161; CE 51, 155, 161; EL 66; LW 162; TT 154
<b>M11.C.1.2.3</b> Identify and/or use properties of isosceles and equilateral triangles.	<b>Student Edition:</b> 161, 163 #17-#20, 191 #37-#39, 367 #18-#20 <i>Mid-Chapter Quiz</i> 173 #4-#5 <i>Review and Practice Your Skills</i> 164 #32-#35, 165 #48-#51, 183 #27-#30, 193 #36-#39 <b>Teacher's Edition:</b> CE 161; EL 160; LW 162

STANDARDS	PAGE REFERENCES
<p><b>M11.C.1.3</b> Use properties of congruence, correspondence and similarity in problem-solving settings involving two- and three-dimensional figures. <b>Reference: 2.9.11.B</b></p>	
<p><b>M11.C.1.3.1</b> Identify and/or use properties of congruent and similar polygons or solids.</p>	<p><b>Student Edition:</b> 356 <i>Review and Practice Your Skills</i> 368 #10-#11, 369 #23-#24 <i>Think Back</i> 356 <b>Teacher's Edition:</b> EL 366</p>
<p><b>M11.C.1.4</b> Solve problems involving right triangles using the Pythagorean Theorem. <b>Reference: 2.10.11.B</b></p>	
<p><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).</p>	<p><b>Student Edition:</b> 334-337 <i>Are You Ready?</i> 305 Pythagorean Theorem <i>Review</i> 344 Lesson 7-7 <b>Teacher's Edition:</b> CE 335; EL 335, 336; LW 336</p>
<p><b>ASSESSMENT ANCHOR</b> <b>M11.C.2 Identify and/or apply concepts of transformations or symmetry.</b> <b>Not assessed at grade 11.</b></p>	
<p><b>ASSESSMENT ANCHOR</b> <b>M11.C.3 Locate points or describe relationships using the coordinate plane.</b></p>	
<p><b>M11.C.3.1</b> Solve problems using analytic geometry. <b>Reference: 2.9.11.G</b></p>	
<p><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).</p>	<p><b>Student Edition:</b> 334-337, 356 <i>Assessment</i> 345 #24-#26 <i>Review</i> 344 Lesson 7-7 <b>Teacher's Edition:</b> CE 335; DI 356</p>
<p><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).</p>	<p><b>Student Edition:</b> 331 #35 <b>Teacher's Edition:</b> EL 326</p>

STANDARDS	PAGE REFERENCES
<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> 128-129 <i>Review</i> 147 Lesson 3-6 <i>Review and Practice Your Skills</i> 130 #36-#42, 131 #61-#62, 141 #93-#94 <b>Teacher's Edition:</b> CE 129, 130; EL 129, 143; TT 128, 131
<b>M11.D.1.1.2</b> Determine if a relation is a function given a set of points or a graph.	<b>Student Edition:</b> 314-317, 318-320, 341 #34 <i>Mid-Chapter Quiz</i> 323#13 <i>Review</i> 343 Lesson 7-3 <i>Review and Practice Your Skills</i> 322#1-#7, #18-#27, 323 #31-#62, 333 #41-#42 <b>Teacher's Edition:</b> AA 317; CE 315, 319; FG 315, 316; LW 316
<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).	<b>Student Edition:</b> 314-317, 341 #32-#33 <i>Mid-Chapter Quiz</i> 323#11-#12 <i>Review</i> 343 Lesson 7-3 <i>Review and Practice Your Skills</i> 322#8-#17, 323 #59-#60, 333 #39-#40 <b>Teacher's Edition:</b> AA 325; CE 315, 325, 329
<b>ASSESSMENT ANCHOR</b>	
<b>M11.D.2 Represent and/or analyze mathematical situations using numbers, symbols, words, tables and/or graphs.</b>	
<b>M11.D.2.1</b> Write, solve and/or graph linear equations and inequalities using various methods. <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>	
<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).	<b>Student Edition:</b> 240-243, 246-249 <i>Review</i> 252 Lesson 5-8, Lesson 5-9 <i>Review and Practice Your Skills</i> 244 #28-#45, 245 #62-#90 <b>Teacher's Edition:</b> CE 241, 247; DI 240; EL 241; LW 242, 248; TT 247, 248

STANDARDS	PAGE REFERENCES
<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> 319-321, 328-331 <i>Review and Practice Your Skills</i> 322 #28-#29, 323 #63-#65. 332 #318-#29</p> <p><b>Teacher’s Edition:</b> AA 328; CE 319, 329; EL 329; TT 319</p>
<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> 318-321, 328-331 <i>Review</i> 343 Lesson 7-4 <i>Review and Practice Your Skills</i> 322 Lesson 7-4, 332 Lesson 7-6</p> <p><b>Teacher’s Edition:</b> CE 319, 329; GS 318; TT 319; LW 320, 330</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>See <i>Math Matters 2: An Integrated Program</i> © 2009</p> <p><b>Student Edition:</b> 338-341, 342 #19-#33, 343 #37-#39, 344-347, 348-351, 352 #1-#33, 353 #37-#45</p> <p><b>Teacher’s Edition:</b> CE 339, 342, 345, 349, 352; ETL 350; FG 351; GS 338; QA 340, 346, 350; TT 338, 339, 344, 345, 348, 349, 353</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>Solving by graphing can be found in <i>Math Matters 2: An Integrated Program</i> © 2009 on the following page.</p> <p><b>Student Edition:</b> 270 #30</p>
<p><b>M11.D.2.2</b> Simplify expressions involving polynomials. <b>Reference: 2.8.11.S</b></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> 398-401, 404-407, 408-411, 414</p> <p><b>Teacher’s Edition:</b> AA 405; CE 399, 405, 409; DI 399; EL 401, 406, 411; TT 400, 409</p>
<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> 414-417</p> <p><b>Teacher’s Edition:</b> AA 417; CE 415; LW 416; LW 416</p>

STANDARDS	PAGE REFERENCES
<p><b>M11.D.2.2.3</b> Simplify algebraic fractions.</p>	<p><b>Student Edition:</b> 418-421 <i>Review</i> 428 Lesson 9-6 <i>Review and Practice Your Skills</i> 422 Lesson 9-6 <b>Teacher’s Edition:</b> CE 419; EL 421; LW 420; TT 418, 419</p>
<p><b>ASSESSMENT ANCHOR</b></p>	
<p><b>M11.D.3 Analyze change in various contexts.</b></p>	
<p><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> 74-77, 84-87, 223 Example 3, 260-263, 264-267, 270-273, 274-277, 280-283, 284-287 <i>Are You Ready?</i> 258 Percent, 259 Solving Proportions, 434 Ratios <b>Teacher’s Edition:</b> AA 75; CE 75, 85; DI 261; LW 86; TT 260</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> 318-321 <i>MathWorks</i> 333 #1 <i>Review</i> 341 Lesson 7-4 <i>Review and Practice Your Skills</i> 322 Lesson 7-4 <b>Teacher’s Edition:</b> CE 319; EL 329; LW 320; TT 319</p>
<p><b>M11.D.3.2 Compute and/or use the slope of a line.</b> <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> 324-327, 328-331 <i>Review</i> 341 Lesson 7-5, 342 Lesson 7-6 <i>Review and Practice Your Skills</i> 332 <i>Standardized Test Practice</i> 347 #17 <b>Teacher’s Edition:</b> AA 325,328; CE 325, 329, 332; EL 326, 327, 329; LW 326, 330</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> 328-331 <i>Review</i> 341 342 Lesson 7-6 <i>Review and Practice Your Skills</i> 332 Lesson 7-6 <i>Standardized Test Practice</i> 347 #17 <b>Teacher’s Edition:</b> AA 328; CE 332; EL 329; LW 330</p>

STANDARDS	PAGE REFERENCES
<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> 324-327 <i>Review</i> 341 Lesson 7-5 <i>Review and Practice Your Skills</i> 332 Lesson 7-5 <i>Standardized Test Practice</i> 347 #17 <b>Teacher’s Edition:</b> CE 325; EL 326, 327; LW 326</p>
<p><b>ASSESSMENT ANCHOR</b></p>	
<p><b>M11.D.4 Describe or use models to represent quantitative relationships.</b></p>	
<p><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></p>	
<p><b>M11.D.4.1.1</b> Match the graph of a given function to its table or equation.</p>	<p><b>Student Edition:</b> 314-317, 318-320, 324-327, 338-341 <i>Data Activity</i> 303 <b>Teacher’s Edition:</b> AA 317; CE 315, 319, 325, 339; FG 315, 316; LW 316</p>
<p><b>M11.E Data Analysis and Probability</b></p>	
<p><b>ASSESSMENT ANCHOR</b></p>	
<p><b>M11.E.1 Formulate or answer questions that can be addressed with data and/or organize, display, interpret or analyze data.</b></p>	
<p><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></p>	
<p><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.</p>	<p><b>Student Edition:</b> 16-19, 24-27, 28-31, 34-37, 38-41 <i>Review</i> 43 Lesson 1-3, Lesson 1-4, 44 <b>Teacher’s Edition:</b> CE 17, 23, 25, 35, 39; EL 24; LW 18; TT 28</p>
<p><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).</p>	<p><b>Student Edition:</b> 16-19, 24-27, 28-31, 34-37, 38-41, 83 #44-#46, 339 <i>Review</i> 42 Lesson 1-1, 43 Lesson 1-3, Lesson 1-4, 44 <b>Teacher’s Edition:</b> CE 17, 21, 25, 35, 39, 339; EL 16, 39; LW 26</p>

STANDARDS	PAGE REFERENCES
<b>ASSESSMENT ANCHOR</b>	
<b>M11.E.2</b> Select and/or use appropriate statistical methods to analyze data.	
<b>M11.E.2.1</b> Use measures of central tendency to describe a set of data. <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> 16-19, 38-41 <i>Review 43 Lesson 1-2, 44 Lesson 1-8</i> <b>Teacher's Edition:</b> 5MW 38; EL 30; I 28; LW 30
<b>M11.E.2.1.2</b> Calculate and/or interpret the range, quartiles and interquartile range of data.	<b>Student Edition:</b> 38-41 <i>Review 44 Lesson 1-8</i> <b>Teacher's Edition:</b> DI 40; EL 39
<b>M11.E.2.1.3</b> Describe how outliers affect measures of central tendency.	<b>Student Edition:</b> 16 <b>Teacher's Edition:</b> CE 17
<b>ASSESSMENT ANCHOR</b>	
<b>M11.E.3</b> Understand and/or apply basic concepts of probability or outcomes.	
<b>M11.E.3.1</b> Apply probability and/or odds to practical situations. <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> 436-439, 440-443, 451 Example 2, #5-#8, 452 #19-#22, 453 #36-#41, 456-459, 460-461 <b>Teacher's Edition:</b> CE 437, 457; EL 458; TT 441, 451
<b>M11.E.3.1.2</b> Find, convert and/or compare the probability and/or odds of a simple event.	<b>Student Edition:</b> 436-439, 440-443, 451 Example 2, #5-#8, 452 #19-#22, 453 #36-#41, 456-459, 460-461 <b>Teacher's Edition:</b> CE 437, 457; EL 439, 458; TT 441

STANDARDS	PAGE REFERENCES
<p><b>M11.E.3.2</b> Apply counting techniques in problem-solving settings. Reference: 2.7.8.A</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>The terms combination and permutation are not used in this book, but the following examples show the use of sample spaces, tree diagrams and the counting principle. <b>Student Edition:</b> 446-449, 450-453 <b>Teacher's Edition:</b> CE 447, 451; DI 450; TT 446, 451, 452</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. Reference: 2.7.8.E, 2.6.11.D</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> 20-21, 28-31 <i>Review and Practice Your Skills</i> 22 Lesson 1-4 , 32 Lesson 1-6, 33 # 18-#20 <i>Standardized Test Practice</i> 347 #17 <b>Teacher's Edition:</b> CE 21, 29</p>
<p><b>M11.E.4.1.2</b> Use probability to predict outcomes.</p>	<p><b>Student Edition:</b> 436-439, 440-443, 451 Example 2, #5-#8, 452 #19-#22, 453 #36-#41, 456-459, 460-461 <b>Teacher's Edition:</b> CE 437, 457; EL 458; TT 441, 451</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. Reference: 2.6.11.C, 2.6.11.D</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> 34-37 <i>Review</i> 44 Lesson 1-7 <b>Teacher's Edition:</b> CE 35</p>
<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> 34-37 <i>Review</i> 44 Lesson 1-7 <b>Teacher's Edition:</b> CE 35; EL 35; TT 34</p>