



# Algebra 2

© 2005

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>	<b>Represent and/or use numbers in equivalent forms (e.g., integers, fractions, decimals, percents, square roots, exponents and scientific notation).</b> <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> 245-247, 254 #14, 259 Example 4, 263 Example 1, 362 Example 4 <i>Graphing Calculator Investigation 268-269</i> <b>Teacher Wraparound Edition:</b> A 249; DI 247; IE 247, 264
<b>M11.A.1.1.2</b>	Express numbers and/or simplify expressions using scientific notation (including numbers less than 1).	<b>Student Edition:</b> 225, 226 #13-#17, 227 #44-#60, #63, 228 #65, 238 #66, 249 #62 <i>Extra Practice 836 Lesson 5-1</i> <i>Practice Quiz 238 #1-#2</i> <b>Teacher Wraparound Edition:</b> IE 225

STANDARDS	PAGE REFERENCES
<b>M11.A.1.1.3</b> Simplify square roots. (e.g., $\sqrt{24} = 2\sqrt{6}$ )	<b>Student Edition:</b> 246 Example 1, 248 #28-#57, 250-256, 265 Example 4 <b>Teacher Wraparound Edition:</b> IE 246, 251, 252, 253, 265
<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>	
<b>M11.A.1.2.1</b> Find the Greatest Common Factor (GCF) and/or the Least Common Multiple (LCM) for sets of monomials.	<b>Student Edition:</b> 239-244, 302 Example 3, 479-484, 504 #56-#61 <i>Algebra Activity</i> 240 <i>Extra Practice</i> 847 Lesson 9-2 <b>Teacher Wraparound Edition:</b> A 244; IE 240, 241, 480, 481
<b>M11.A.1.3</b> Estimate the value of an irrational number. <b>Reference: 2.2.8.C</b>	
<b>M11.A.1.3.1</b> Locate/identify irrational numbers at the approximate location on a number line.	<b>Student Edition:</b> 11
<b>M11.A.1.3.2</b> Compare and/or order any real numbers (rational and irrational may be mixed).	<b>Student Edition:</b> 11, 28, 33, 34, 36 Example 4, 37-38, 43 Example 6 <i>Graphing Calculator Investigation</i> 36 <b>Teacher Wraparound Edition:</b> IE 34, 36
<b>ASSESSMENT ANCHOR</b>	
<b>M11.A.2</b> Understand the meanings of operations, use operations and understand how they relate to each other.	
<b>M11.A.2.1</b> Apply ratio and/or proportion in problem-solving situations. <b>Reference: 2.2.11.A, 2.8.11.P</b>	
<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.).	<b>Student Edition:</b> 69 Example 3, 82 Example 2, 111 Example 2, 131 Example 3, 472, 477 #44-#45, 507, 564-560 <b>Teacher Wraparound Edition:</b> IE 69, 507
<b>M11.A.2.1.2</b> Solve problems using direct and inverse proportions.	<b>Student Edition:</b> 181 #58, 188 #65, 490 #63-#66, 492-497 <i>Getting Started</i> 471 #13-#24 <b>Teacher Wraparound Edition:</b> IE 493, 494

STANDARDS	PAGE REFERENCES
<p><b>M11.A.2.1.3</b> Identify and/or use proportional relationships in problem-solving settings.</p>	<p><b>Student Edition:</b> 181 #58, 188 #65, 490 #63-#66, 492-497 <i>Getting Started</i> 471 #13-#24 <b>Teacher Wraparound Edition:</b> IE 493, 494</p>
<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> 28-32, 39 #59-#61, 222-227, 257-262, 360-364 <b>Teacher Wraparound Edition:</b> A 32; DI 226; H 28; IE 29, 223, 251, 252, 253</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> 222-228, 229-232, 233-237, 239-243 <i>Algebra Activity</i> 240 <b>Teacher Wraparound Edition:</b> AA 240; IE 222, 224, 229, 230, 240</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> 6-10, 14 Example 4-Example 5, 16 #49-#58, 23, 36 Example 4, 183 Example 2, 294 Example 1 <b>Teacher Wraparound Edition:</b> GCI 7; IE 7, 13</p>
<p><b>M11.A.3.2</b> Use estimation strategies in problem-solving situations. <b>Reference: 2.2.11.B, 2.2.11.D</b></p>	
<p><b>M11.A.3.2.1</b> Use estimation to solve problems.</p>	<p><b>Student Edition:</b> 59 Example 5, 225 Example 7, 296 Example 4, 335 #51, 507 Example 3 <i>Algebra Activity</i> 716 #4-#7 <b>Teacher Wraparound Edition:</b> IE 507</p>

STANDARDS	PAGE REFERENCES
<b>M11.B Measurement</b>	
<b>ASSESSMENT ANCHOR</b>	
<b>M11.B.1 Apply appropriate techniques, tools and formulas to determine measurements.</b>	
<b>M11.B.1.1 Use and/or compare measurements of angles.</b> <i>Reference: 2.3.11.A, 2.3.11.B</i>	
<b>M11.B.1.1.1</b> Measure and/or compare angles in degrees (up to 360°) (protractor must be provided or drawn).	<b>Student Edition:</b> 709-714, 722 #25-#28 <i>Algebra Activity</i> 716 #4 <b>Teacher Wraparound Edition:</b> H 709; IE 710, 711, 712, 719; TT 719
<b>M11.B.1.2 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.)</b> <i>Reference: 2.3.8.A, 2.3.8.D</i>	
<b>M11.B.1.2.1</b> Calculate the surface area of prisms, cylinders, cones, pyramids and/or spheres. Formulas are provided on the reference sheet.	<b>Student Edition:</b> 18 #82, 22 Example 6, 25 #27-#28, 27 #83, 266 #12 <i>Mixed Problem Solving</i> 862 #4-#6 <b>Teacher Wraparound Edition:</b> IE 22 #6
<b>M11.B.1.2.2</b> Calculate the volume of prisms, cylinders, cones, pyramids and/or spheres. Formulas are provided on the reference sheet.	<b>Student Edition:</b> 367 Example 3, 379 Example 2, 380 #11, 381 #39-#41, 615 #31 <i>Mixed Problem Solving</i> 866 #7-#8 <b>Teacher Wraparound Edition:</b> IE 379 #2
<b>M11.B.1.2.3</b> Estimate area, perimeter or circumference of an irregular figure.	<b>Student Edition:</b> 67 #60, 187 #41, 335 #51
<b>M11.B.1.2.4</b> Find the measurement of a missing length given the perimeter, circumference, area or volume.	<b>Student Edition:</b> 26 #64, 255 #58, 367 Example 3, 380 #11, 381 #39, 382 #55 <b>Teacher Wraparound Edition:</b> IE 367 #3

STANDARDS	PAGE REFERENCES
<p><b>M11.B.1.3</b> Describe how a change in one dimension of a figure (2 or 3 dimensional) affects other measurements of that figure.</p> <p><b>Reference: 2.3.8.E</b></p>	
<p><b>M11.B.1.3.1</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> 334 #45, 379 Example 2, 381 #41, 382 #55 <i>Mixed Problem Solving</i> 866 #8</p> <p><b>Teacher Wraparound Edition:</b> IE 379 #2</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 Identify and/or use parts of circles and segments associated with circles.</b></p> <p><b>Reference: 2.9.11.F</b></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><b>Student Edition:</b> 9 #50, 426-431 <i>Extra Practice</i> 845 Lesson 8-3</p> <p><b>Teacher Wraparound Edition:</b> A 431; DI 428; IE 427, 428; TT 427; W 426</p>
<p><b>M11.C.1.1.2</b> Identify and/or use the properties of arcs, semicircles, inscribed angles and/or central angles.</p>	<p><b>Student Edition:</b> 433, 434, 456 <i>Algebra Activity</i> 437</p>
<p><b>M11.C.1.2 Recognize and/or apply properties of angles, triangles and quadrilaterals.</b></p> <p><b>Reference: 2.9.8.D, 2.9.11.C</b></p>	
<p><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).</p>	<p><b>Student Edition:</b> 113 #38, 184-185, 186 #14, 187 #41-#42, #44, 415 #35, #37, 612, 702-707 <i>Getting Started</i> 699</p> <p><b>Teacher Wraparound Edition:</b> IE 185, 703</p>
<p><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).</p>	<p><b>Student Edition:</b> 415 #36, 482 #13</p>

STANDARDS		PAGE REFERENCES	
<b>M11.C.1.2.3</b> Identify and/or use properties of isosceles and equilateral triangles.		<b>Student Edition:</b> <i>Mixed Problem Solving</i> 869 #1-#4	
	<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>		
<b>M11.C.1.3.1</b> Identify and/or use properties of congruent and similar polygons or solids.		<b>Student Edition:</b> <i>Prerequisite Skills</i> 817-819	
	<b>M11.C.1.4</b> Solve problems involving right triangles using the Pythagorean Theorem. <b>Reference: 2.10.11.B</b>		
<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> 720-721 Example 5, 777, 779 #2 <i>Getting Started</i> 699 #1-#4 <i>Prerequisite Skills</i> 820-821	
	<b>ASSESSMENT ANCHOR</b>		
	<b>M11.C.2</b> Locate points or describe relationships using the coordinate plane.		
	<b>M11.C.2.1</b> Solve problems using analytic geometry. <b>Reference: 2.9.11.G</b>		
<b>M11.C.2.1.1</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> 412-416, 425 #5-#52, 441 <i>Algebra Activity</i> 417-418 <i>Practice Test</i> 467 #7-#9 <i>Study Guide and Review</i> 461-462 8-1 <b>Teacher Wraparound Edition:</b> DI 414; IE 413	
<b>M11.C.2.1.2</b> Relate slope to perpendicularity and/or parallelism (limit to linear algebraic expressions; slope formula provided on the reference sheet).		<b>Student Edition:</b> 70-71, 77-78 Example 4, 101, 112 Example 5, 121 #42, 192 #25, 477 #46-#47 <i>Graphing Calculator Investigation</i> 70 <b>Teacher Wraparound Edition:</b> IE 71, 112 #5	

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 Analyze and/or use patterns or relations.</b> <b>Reference: 2.8.11.Q, 2.8.11.A, 2.8.11.O</b>	
<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> 81-86, 352 #56 <i>Graphing Calculator Investigation</i> 87-88, 359 <i>How</i> 63 <b>Teacher Wraparound Edition:</b> A 88; IE 82-83
<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> 56-61, 63, 67 #64-#65, 89-94 <b>Teacher Wraparound Edition:</b> IE 58 #2, #3c, 59 #4c, 82
<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> 56-57, 58 Example 3b, 59 Example 4b, 60 #7-#13, 61 #23-#34, #36, #40, #44, 67 #64-#65 <b>Teacher Wraparound Edition:</b> IE 57
<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 Write, solve and/or graph linear equations and inequalities using various methods.</b> <b>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</b>	
<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> 40-46 <i>Study Guide and Review</i> 50 1-6 <b>Teacher Wraparound Edition:</b> DI 42; IE 41-43; TT 41
<b>M11.D.2.1.2</b> Identify or graph functions, linear equations or linear inequalities on a coordinate plane.	<b>Student Edition:</b> 66 #51, 67 #55, #57, 84, 129, 294-299, 369 Example 3 <i>Algebra Activity</i> 136-137 <i>Graphing Calculator Investigation</i> 300 <b>Teacher Wraparound Edition:</b> IE 69, 71

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> 63-67, 75-80, 189, 191 <i>Getting Started</i> 109 #1-#6 <i>Graphing Calculator Investigation</i> 87-88 <b>Teacher Wraparound Edition:</b> A 67; H 63; IE 64-65, 76-77</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> 110-115, 116-121, 123-127 <i>Graphing Calculator Investigation</i> 128 <b>Teacher Wraparound Edition:</b> A 127; IE 111-112, 116-119, 124-125</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> 294-299, 301-305, 306-312, 329-335 <i>Getting Started</i> 345 #1-#3 <i>Graphing Calculator Investigation</i> 300 <b>Teacher Wraparound Edition:</b> IE 295-296, 302, 307-309</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> 229, 230-232, 236 #5, #11, 238 #62-#65 <i>Getting Started</i> 285 #5-#8 <i>Study Guide and Review</i> 277 5-2 <b>Teacher Wraparound Edition:</b> IE 229 #2, 230</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 a is not equal to 0).</p>	<p><b>Student Edition:</b> 239-243, 301-305, 338, 358, 377 #60-#62 <i>Graphing Calculator Investigation</i> 241 <i>Prerequisite Skills</i> 815-816 <b>Teacher Wraparound Edition:</b> IE 239-242</p>
<p><b>M11.D.2.2.3</b> Simplify algebraic fractions.</p>	<p><b>Student Edition:</b> 86 #33-#36, 223, 226 #7-#12, 254 #29-#30, 475 Example 7, 481, 601-603 <b>Teacher Wraparound Edition:</b> IE 223, 475, 481</p>

STANDARDS		PAGE REFERENCES
<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>		
<b>M11.D.3.1.1</b> Identify, describe and/or use constant or varying rates of change.	<b>Student Edition:</b> 69 Example 3, 560-565 <i>Study Guide and Review</i> 570 10-6 <b>Teacher Wraparound Edition:</b> A 565; IE 69 #3, 561, 562	
<b>M11.D.3.1.2</b> Determine how a change in one variable relates to a change in a second variable (e.g., $y=4/x$ , if $x$ doubles, what happens to $y$ ?).	<b>Student Edition:</b> 69 Example 3, 560-565 <i>Study Guide and Review</i> 570 10-6 <b>Teacher Wraparound Edition:</b> A 565; IE 69 #3, 561, 562	
<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>		
<b>M11.D.3.2.1</b> Apply the formula for the slope of a line to solve problems (formula given on reference sheet).	<b>Student Edition:</b> 68-73, 75-79 <i>Algebra Activity</i> 83 <i>Graphing Calculator Investigation</i> 70 <b>Teacher Wraparound Edition:</b> DI 71; IE 69, 71, 83	
<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.	<b>Student Edition:</b> 68 Example 1, 69 Example 3, 71 #4-#6, 72 #15-#26, #29-#36, 86 #31-#32, 188 #66-#69, 637 #54-#55 <i>Study Guide and Review</i> 102 2-4 <b>Teacher Wraparound Edition:</b> IE 69, 76	
<b>M11.D.3.2.3</b> Compute the slope and/or y-intercept represented by a linear equation or graph.	<b>Student Edition:</b> 70 Example 4, 75-79, 82 Example 2 <i>Graphing Calculator Investigation</i> 70 <b>Teacher Wraparound Edition:</b> A 80; IE 77, 83	

STANDARDS		PAGE REFERENCES
<b>ASSESSMENT ANCHOR</b>		
<b>M11.D.4</b>	<b>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> 82 Example 2, 84-85, 89-92, 96-98 <i>Graphing Calculator Investigation</i> 87-88, 91 <b>Teacher Wraparound Edition:</b> IE 82, 91, 96-97
<b>M11.E Data Analysis and Probability</b>		
<b>ASSESSMENT ANCHOR</b>		
<b>M11.E.1</b>	<b>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> 81, 83 #4-#5, 84 #6-#9, 85 #15, 95 #53, 99 #51, 598 #59, 667 #15-#16 <i>Prerequisite Skills</i> 824-827 <b>Teacher Wraparound Edition:</b> IE 82
<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> 82 Example 2, 83 #3-#5, 84-85, 95 #54-#55, 99 #52-#53, 598 #60-#61 <i>Prerequisite Skills</i> 824-827 <b>Teacher Wraparound Edition:</b> DI 82; H 81; IE 83
<b>ASSESSMENT ANCHOR</b>		
<b>M11.E.2</b>	<b>Select and/or use appropriate statistical methods to analyze data.</b>	
<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> 664-669, 671-675 <i>Prerequisite Skills</i> 822-823 <b>Teacher Wraparound Edition:</b> A 670, 675; IE 665, 672; W 664

STANDARDS	PAGE REFERENCES
<p><b>M11.E.2.1.2</b> Calculate and/or interpret the range, quartiles and interquartile range of data.</p>	<p><b>Student Edition:</b> <i>Prerequisite Skills</i> 823 The following pages also can be used to meet this standard. 664-669</p>
<p><b>M11.E.2.1.3</b> Describe how outliers affect measures of central tendency.</p>	<p><b>Student Edition:</b> <i>Graphing Calculator Investigation</i> 666 <i>Prerequisite Skills</i> 826-827 <i>Study Tip</i> 83</p>
<p><b>ASSESSMENT ANCHOR</b></p>	
<p><b>M11.E.3 Understand and/or apply basic concepts of probability or outcomes.</b></p>	
<p><b>M11.E.3.1 Apply probability and/or odds to practical situations.</b> <b>Reference: 2.7.11.A, 2.7.11.E</b></p>	
<p><b>M11.E.3.1.1</b> Find probabilities for independent, dependent or compound events and represent as a fraction, decimal or percent).</p>	<p><b>Student Edition:</b> 652-657, 658-663 <i>Algebra Activity</i> 651 <i>Study Guide and Review</i> 689 <b>Teacher Wraparound Edition:</b> A 657; DI 654; H 658; IE 652-654, 659-660</p>
<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> 644-648 <i>Study Guide and Review</i> 688 12-3 <b>Teacher Wraparound Edition:</b> DI 646; IE 645-646; TNT 648; W 644</p>
<p><b>M11.E.3.2 Apply counting techniques in problem-solving settings.</b> <b>Reference: 2.7.8.A</b></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> 632-637, 638-643, 650 #70-#72 <b>Teacher Wraparound Edition:</b> A 643; DI 634, 640; H 638; IE 633-634, 639-640; TT 641</p>

STANDARDS		PAGE REFERENCES
<b>ASSESSMENT ANCHOR</b>		
<b>M11.E.4</b>	<b>Develop and/or evaluate inferences and predictions or draw conclusions based on data or data displays.</b>	
<b>M11.E.4.1</b>	<b>Make predictions using data displays and probability.</b> <i>Reference: 2.7.8.E, 2.6.11.D</i>	
<b>M11.E.4.1.1</b> Estimate or calculate to make predictions based on a circle, line, bar graph or given situation.	<b>Student Edition:</b> 82 Example 2, 83 #3-#5, 84-85, 95 #54-#55, 99 #52-#53, 598 #60-#61 <i>Prerequisite Skills</i> 824-827 <b>Teacher Wraparound Edition:</b> DI 82; H 81; IE 83	
<b>M11.E.4.1.2</b> Use probability to predict outcomes.	<b>Student Edition:</b> 644-650 <i>Study Guide and Review</i> 688 12-3 <b>Teacher Wraparound Edition:</b> DI 646; IE 645-646; TNT 648; W 644	
<b>M11.E.4.2</b>	<b>Analyze and/or interpret data on a scatter plot and/or use a scatter plot to make predictions.</b> <i>Reference: 2.6.11.C, 2.6.11.D</i>	
<b>M11.E.4.2.1</b> Draw, find and/or write an equation for a line of best fit for a scatter plot.	<b>Student Edition:</b> 81, 83 #4-#5, 84 #6-#9, 85 #15, 95 #53, 99 #51 <b>Teacher Wraparound Edition:</b> IE 82	
<b>M11.E.4.2.2</b> Make predictions using the equations or graphs of best-fit lines of scatter plots.	<b>Student Edition:</b> 82 Example 2, 83 #3-#5, 84-85, 95 #54-#55, 99 <b>Teacher Wraparound Edition:</b> DI 82; H 81; IE 83	