



Algebra 1

© 2010

STANDARDS	PAGE REFERENCES
M11.A Numbers and Operations	
ASSESSMENT ANCHOR	
M11.A.1 Demonstrate an understanding of numbers, ways of representing numbers, relationships among numbers and number systems.	
<p>M11.A.1.1 Represent and/or use numbers in equivalent forms (e.g., integers, fractions, decimals, percents, square roots, exponents and scientific notation).</p> <p><i>Reference: 2.1.8.A, 2.1.8.B, 2.1.11.A</i></p>	
<p>M11.A.1.1.1 Find the square root of an integer to the nearest tenth using either a calculator or estimation.</p>	<p>Student Edition: P7, P9-P10, 498 #69-#74, 508-510, 539-541, 553-556, 559-563, 607, 617 #75-#77, 624-627, 630-634, 636-640, 683 #65, 705 #71-#72 <i>Study Tip</i> 559</p> <p>Teacher Edition: AE P7, P9, 508, 539, 554, 559, 607, 631, 637; ES 539; FMC 555; TNT 539</p>

STANDARDS	PAGE REFERENCES
<p>M11.A.1.1.2 Express numbers and/or simplify expressions using scientific notation (including numbers less than 1).</p>	<p>Student Edition: 416-422, 429, 438 #54, 461, 463, 572 #56-#58, 713 #89-#90, 830 <i>Problem-Solving Tip</i> 417 <i>Study Tip</i> 418 <i>Watch Out!</i> 417 Teacher Edition: AE 417-418; DI 417, 420; EA 420; FMC 418; NTM 422; SQ 416; TNT 418, 419; TWT 418; WO 420</p>
<p>M11.A.1.1.3 Simplify square roots. (e.g., $\sqrt{24} = 2\sqrt{6}$)</p>	<p>Student Edition: P9-P10, 612-617, 619-623, 628, 629, 635, 657-658, 661, 664 #2-#3, 690, 837, 838 <i>Study Tip</i> 620 <i>Test-Taking Tip</i> 614 Teacher Edition: AE P9, 613-614, 620-621; DI 614; FMC 613; TNT 613; TOD 617; TWT 613; WO 615</p>
<p>M11.A.1.2 Apply number theory concepts to show relationships between real numbers in problem-solving settings. Reference: 2.1.8.E</p>	
<p>M11.A.1.2.1 Find the Greatest Common Factor (GCF) and/or the Least Common Multiple (LCM) for sets of monomials.</p>	<p>Student Edition: 471-473, 476-481, 492, 493-497, 500-503, 507, 514-516, 517, 518-519, 707-713, 714, 717-719, 721-725, 729-730, 731, 733 <i>Preparing for Standardized Tests</i> 518-519 <i>Study Tip</i> 500 Teacher Edition: AE 472, 477-479, 494, 500, 507, 708, 721-723; SQ 471</p>
<p>M11.A.1.3 Estimate the value of an irrational number. Reference: 2.2.8.C</p>	
<p>M11.A.1.3.1 Locate/identify irrational numbers at the approximate location on a number line.</p>	<p>Student Edition: P8-P10, 533 #59-#62, 539-541, 557 #63 <i>Study Tip</i> P8, P10, 539 Teacher Edition: AE 539; TNT 539</p>

STANDARDS	PAGE REFERENCES
<p>M11.A.1.3.2 Compare and/or order any real numbers (rational and irrational may be mixed).</p>	<p>Student Edition: P7-P10, P13, 539 <i>Study Tip</i> P8, P9, P10 Teacher Edition: AE P7-P9, P13; TOD P10; TWT P7</p>
<p>ASSESSMENT ANCHOR</p>	
<p>M11.A.2 Understand the meanings of operations, use operations and understand how they relate to each other.</p>	
<p>M11.A.2.1 Apply ratio and/or proportion in problem-solving situations. Reference: 2.2.11.A, 2.8.11.P</p>	
<p>M11.A.2.1.1 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>Student Edition: P20-P22, P44 #39-#42, 111-117, 119-124, 125, 126-131, 132-138, 142-144, 145, 709, 711-712, 722-726, 730 #54, 731 #28, 732-733, 799 #3 <i>Algebra Lab</i> 125 <i>Preparing for Standardized Tests</i> 732-733 <i>Problem-Solving Tip</i> 133 <i>Study Tip</i> 133 Teacher Edition: AE P20-P21, 112-114, 120-121, 127-128, 133-135; DI 124; SQ 132-133</p>
<p>M11.A.2.1.2 Solve problems using direct and inverse proportions.</p>	<p>Student Edition: P20-P22, P44 #39-#42, 111-117, 119-124, 125, 126-131, 142-143, 145, 195-200, 203-204, 642-647, 670-676 <i>Algebra Lab</i> 125 <i>Study Tip</i> P21, P22, 112, 113, 643 Teacher Edition: AE P20-P21, 112-114, 120-121, 127-128, 196-197, 643-644, 671-672; DI 117, 124; TNT P21</p>
<p>M11.A.2.1.3 Identify and/or use proportional relationships in problem-solving settings.</p>	<p>Student Edition: P20-P22, P44 #39-#42, 111-117, 119-124, 125, 142-143, 145, 195-200, 203-204, 642-647, 670-676 <i>Algebra Lab</i> 125 <i>Study Tip</i> P21, P22, 643 Teacher Edition: AE P20-P21, 112-114, 120-121, 127-128, 196-197, 643-644</p>

STANDARDS	PAGE REFERENCES
<p>M11.A.2.2 Use exponents, roots and/or absolute value to solve problems. Reference: 2.1.11.A</p>	
<p>M11.A.2.2.1 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>Student Edition: P9-P10, 10-15, 103-106, 110 #22-#23, 142, 401-407, 408-415, 416-422, 557, 612-617, 618, 619-623, 685, 688, 692-698, 699, 705, 715, 717 <i>Graphing Technology Lab</i> 618 <i>Study Tip</i> 402, 403, 409, 410, 411 Teacher Edition: AE 11-12, 402-404, 409-412, 417-418, 613-614, 620-621, 686; TNT 411</p>
<p>M11.A.2.2.2 Simplify/evaluate expressions involving multiplying with exponents (e.g., $x^6 * x^7 = x^{13}$), powers of powers (e.g., $(x^6)^7 = x^{42}$) and powers of products ($(2x^2)^3 = 8x^6$ (positive exponents only)).</p>	<p>Student Edition: 401-407, 408-415, 422, 429, 430, 438, 444, 452, 460, 463, 482, 557, 685-688, 692-698, 699, 705, 715, 717, 829-830 <i>Study Tip</i> 401, 403, 409, 410, 411 Teacher Edition: AE 402-404, 409-412, 417-418, 686, 693-694; DI 403; FMC 409; TNT 411; WO 403</p>
<p>ASSESSMENT ANCHOR</p>	
<p>M11.A.3 Compute accurately and fluently and make reasonable estimates.</p>	
<p>M11.A.3.1 Apply the order of operations in computation and in problem-solving situations. Reference: 2.2.8.A</p>	
<p>M11.A.3.1.1 Simplify/evaluate expressions using the order of operations to solve problems (any rational numbers may be used).</p>	<p>Student Edition: 10-15, 17-22, 30, 32-36, 52 #60-#62, 63-64, 65, 66, 439-443, 815 <i>Study Tip</i> 11 <i>Test-Taking Tip</i> 32 Teacher Edition: AE 11-12, 17-19, 32-33; DI 15; FMC 11, 440; NTM 15; TWT 12; WO 12, 13, 14</p>
<p>M11.A.3.2 Use estimation strategies in problem-solving situations. Reference: 2.2.11.B, 2.2.11.D</p>	
<p>M11.A.3.2.1 Use estimation to solve problems.</p>	<p>Student Edition: P5-P6, 37 #83, 68-69, 163, 206-207, 416-421, 539, 554-557, 558-564, 630-634, 636-641, 812 <i>Problem-Solving Tip</i> 417 Teacher Edition: AE 163, 539, 554, 631, 637; DI 539, 557; TNT P6, 163, 554</p>

STANDARDS		PAGE REFERENCES
M11.B Measurement		
ASSESSMENT ANCHOR		
M11.B.1	Demonstrate an understanding of measurable attributes of objects and figures, and the units, systems and processes of measurement. Not assessed at grade 11.	
ASSESSMENT ANCHOR		
M11.B.2	Apply appropriate techniques, tools and formulas to determine measurements.	
M11.B.2.1	Use and/or compare measurements of angles. <i>Reference: 2.3.11.A, 2.3.11.B</i>	
M11.B.2.1.1	Measure and/or compare angles in degrees (up to 360°) (protractor must be provided or drawn).	Student Edition: 238, 862-863 Teacher Edition: AE 862; TNT 863; TOD 863
M11.B.2.2	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.) <i>Reference: 2.3.8.A, 2.3.8.D</i>	
M11.B.2.2.1	Calculate the surface area of prisms, cylinders, cones, pyramids and/or spheres. Formulas are provided on the reference sheet.	Student Edition: P31-P32, 29 #71, 309 #45, 454, 629 #29 Teacher Edition: AE P31; TWT P31; WO P32
M11.B.2.2.2	Calculate the volume of prisms, cylinders, cones, pyramids and/or spheres. Formulas are provided on the reference sheet.	Student Edition: P29-P30, 37 #82, 52 #67-#69, 71 #12, 339 #54, 386 #46, 404 #16, 405 #58-#60, 430 #5, 460 #19, 463 #3, 520 #7, 599 #3 Teacher Edition: AE P29, 403; WO P30
M11.B.2.2.3	Estimate area, perimeter or circumference of an irregular figure.	Student Edition: P25 #17-#20, P28 #21-#23
M11.B.2.2.4	Find the measurement of a missing length given the perimeter, circumference, area or volume.	Student Edition: 99, 100 #22, 109 #66, 110 #20, 127, 128 #5, 138 #29, 145 #11, 147 #5, 148 #2, 320 #54, 327 #3, 473 #23, 482 #60, 491 #52, 492 #12, 514 #30, 515 #49, 555, 589 #39, 599 #2, 609 #42, 685 Teacher Edition: AE 99, 685

STANDARDS	PAGE REFERENCES
<p>M11.B.2.3 Describe how a change in one dimension of a figure (2 or 3 dimensional) affects other measurements of that figure.</p> <p><i>Reference: 2.3.8.E</i></p>	
<p>M11.B.2.3.1 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"> • How does changing the length of the radius of a circle affect the circumference of the circle? • How does changing the length of the edge of a cube affect the volume of the cube? • How does changing the length of the base of a triangle affect the area of the triangle? 	<p>Student Edition: 80 #53, 451 #43, 535 #76</p>
<p>M11.C Geometry</p>	
<p>ASSESSMENT ANCHOR</p>	
<p>M11.C.1 Analyze characteristics and properties of two- and three-dimensional geometric shapes and demonstrate understanding of geometric relationships.</p>	
<p>M11.C.1.1 Identify and/or use parts of circles and segments associated with circles.</p> <p><i>Reference: 2.9.11.F</i></p>	
<p>M11.C.1.1.1 Identify and/or use the properties of a radius, diameter and/or tangent of a circle (given numbers should be whole).</p>	<p>Student Edition: P24-P25, P27-P28, P29-P30, P31-P32, 403, 414 #60, 450 #33</p> <p>Teacher Edition: AE P24, P27; WO P25</p>
<p>M11.C.1.1.2 Identify and/or use the properties of arcs, semicircles, inscribed angles and/or central angles.</p>	<p>Student Edition: P25 #18-#20, 628 #38</p>
<p>M11.C.1.2 Recognize and/or apply properties of angles, triangles and quadrilaterals.</p> <p><i>Reference: 2.9.8.D, 2.9.11.C</i></p>	
<p>M11.C.1.2.1 Identify and/or use properties of triangles (e.g., medians, altitudes, angle bisectors, side/angle relationships, Triangle Inequality Theorem).</p>	<p>Student Edition: 307 #36, 456 #47-#48, 458 #62, 564 #60</p>
<p>M11.C.1.2.2 Identify and/or use properties of quadrilaterals (e.g., parallel sides, diagonals, bisectors, congruent sides/angles and supplementary angles).</p>	<p>Student Edition: 233, 234 #10, 238, 240 #4, 241 #17-#18, 277 #3, 354 #51, 440, 442 #30</p> <p>Teacher Edition: AE 233, 239</p>

STANDARDS	PAGE REFERENCES
<p>M11.C.1.2.3 Identify and/or use properties of isosceles and equilateral triangles.</p>	<p>Student Edition: 564 #60, 633 #36, 676 #64, 690 #61</p>
<p>M11.C.1.3 Use properties of congruence, correspondence and similarity in problem-solving settings involving two- and three-dimensional figures. <i>Reference: 2.9.11.B</i></p>	
<p>M11.C.1.3.1 Identify and/or use properties of congruent and similar polygons or solids.</p>	<p>Student Edition: 295 #45, 301 #63, 642-647, 648, 660, 661, 662-663 <i>Algebra Lab</i> 648 <i>Preparation for Standardized Tests</i> 662-663 <i>Problem-Solving Tip</i> 646 <i>Study Tip</i> 643 Teacher Edition: AE 643-644, 663; DI 647; FMC 644; SQ 642; TNT 643; TWT 645; WCG 648; WO 643, 647</p>
<p>M11.C.1.4 Solve problems involving right triangles using the Pythagorean Theorem. <i>Reference: 2.10.11.B</i></p>	
<p>M11.C.1.4.1 Find the measure of a side of a right triangle using the Pythagorean Theorem (Pythagorean Theorem included on the reference sheet).</p>	<p>Student Edition: 630-635, 636, 641, 647, 649, 652-653, 659, 660, 661, 683, 745 #39, 838, 854 Teacher Edition: AE 631, 650; DI 631, 635; FMC 632; SQ 636; TWT 632; WO 632, 634</p>
<p>ASSESSMENT ANCHOR M11.C.2 Identify and/or apply concepts of transformations or symmetry. Not assessed at grade 11.</p>	
<p>ASSESSMENT ANCHOR M11.C.3 Locate points or describe relationships using the coordinate plane.</p>	
<p>M11.C.3.1 Solve problems using analytic geometry. <i>Reference: 2.9.11.G</i></p>	
<p>M11.C.3.1.1 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>Student Edition: 636-640, 647, 655, 659, 661, 690, 839, 854 <i>Study Tip</i> 637 Teacher Edition: AE 637-638; DI 637, 641; FMC 637; TOD 641; TWT 638, WO 639</p>

STANDARDS	PAGE REFERENCES
<p>M11.C.3.1.2 Relate slope to perpendicularity and/or parallelism (limit to linear algebraic expressions; slope formula provided on the reference sheet).</p>	<p>Student Edition: 228 #44, 237-243, 244, 251, 260 #28, 277 #1-#3, 334-337, 339, 345, 354 #51, 381, 577 #35-#37 <i>Review Vocabulary</i> 238, 334 <i>Study Tip</i> 239 Teacher Edition: AE 238-239, 334-335; DI 243; EC 341; FMC 197, 238, 335; SQ 237; TWT 238</p>
<p>M11.D Algebraic Concepts</p>	
<p>ASSESSMENT ANCHOR</p>	
<p>M11.D.1 Demonstrate an understanding of patterns, relations and functions.</p>	
<p>M11.D.1.1 Analyze and/or use patterns or relations. Reference: 2.8.11.Q, 2.8.11.A, 2.8.11.O</p>	
<p>M11.D.1.1.1 Analyze a set of data for the existence of a pattern and represent the pattern algebraically and/or graphically.</p>	<p>Student Edition: 187-193, 195-200, 204, 221 #75, 578-583, 584-589, 590-591, 726 #53-#56 <i>Graphing Technology Lab</i> 590-591 <i>Study Tip</i> 188, 196, 197, 578 <i>Watch Out!</i> 580, 585, 586 Teacher Edition: AE 188-190, 196-197, 579-580, 585-586; DI 188, 193, 200, 586, 589; FMC 189, 197, 579, 585</p>
<p>M11.D.1.1.2 Determine if a relation is a function given a set of points or a graph.</p>	<p>Student Edition: 45-52, 59, 66, 67, 261-268, 817 <i>Study Tip</i> 47 Teacher Edition: AE 46-47; FMC 46, 263; TWT 47; WO 50</p>
<p>M11.D.1.1.3 Identify the domain, range or inverse of a relation (may be presented as ordered pairs or a table).</p>	<p>Student Edition: 38-44, 45-52, 53, 65, 67, 80, 131 #54, 138, 243, 251, 261-268, 295, 525-533, 567-577, 605-610, 611, 816, 834 <i>Graphing Technology Lab</i> 53, 611 <i>Review Vocabulary</i> 526 Teacher Edition: AE 39-40, 262-263, 526, 528, 568-570, 606-608</p>

STANDARDS	PAGE REFERENCES
ASSESSMENT ANCHOR	
M11.D.2 Represent and/or analyze mathematical situations using numbers, symbols, words, tables and/or graphs.	
M11.D.2.1 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>	
M11.D.2.1.1 Solve compound inequalities and/or graph their solution sets on a number line (may include absolute value inequalities).	Student Edition: 304-309, 310-314, 324, 325, 360, 407, 498, 557, 826 <i>Reading Math</i> 305 <i>Study Tip</i> 306, 311 Teacher Edition: AE 305-306; DI 309, 311, 314; FMC 305; SQ 304, 310; TNT 306; WO 305, 308
M11.D.2.1.2 Identify or graph functions, linear equations or linear inequalities on a coordinate plane.	Student Edition: 45-52, 53, 66, 153-160, 161-166, 167-168, 181-185, 189-191, 196-199, 202-204, 285, 304-309, 310-314, 315-320, 321, 324, 325, 333-339, 340-341, 382-386, 387 <i>Graphing Technology Lab</i> 53, 167-168, 321, 340-341, 387 <i>Reading Math</i> 154 <i>Study Tip</i> 155, 156 Teacher Edition: AE 46-48, 154-156, 162-163, 181-182, 305-306, 316-317, 334-335, 383-384
M11.D.2.1.3 Write, solve and/or apply a linear equation (including problem situations).	Student Edition: 75-80, 161-166, 214-221, 224-230, 231-236, 237-243, 244, 245-251, 253-260, 271-273, 275 <i>Study Tip</i> 162 Teacher Edition: AE 76-77, 161-162, 215, 225-226, 232-233, 238-239, 246-247, 254-255; DI 80, 230, 236; FMC 162; SQ 161
M11.D.2.1.4 Write and/or solve systems of equations using graphing, substitution and/or elimination (limit systems to 2 equations).	Student Edition: 333-339, 340-341, 342-347, 348-354, 355-360, 361, 362-367, 368, 376-381, 382-386, 387, 389-392, 393, 550-551, 827-829 <i>Graphing Technology Lab</i> 340-341, 387, 550-552 <i>Spreadsheet Lab</i> 368 <i>Study Tip</i> 335 Teacher Edition: AE 343-344, 349-350; DI 334, 338; FMC 335

STANDARDS	PAGE REFERENCES
<p>M11.D.2.1.5 Solve quadratic equations using factoring (integers only – not including completing the square or the Quadratic Formula).</p>	<p>Student Edition: 488-491, 492, 495-498, 501-504, 507-512, 515-516, 517, 542 #57-#62, 833-834 <i>Watch Out!</i> 495 Teacher Edition: AE 488, 495, 501, 507; DI 498, 504; WO 488, 497</p>
<p>M11.D.2.2 Simplify expressions involving polynomials. Reference: 2.8.11.S</p>	
<p>M11.D.2.2.1 Add, subtract and/or multiply polynomial expressions (express answers in simplest form – nothing larger than a binomial multiplied by a trinomial).</p>	<p>Student Edition: 401-407, 430, 431-432, 433-438, 439-444, 445-446, 447-452, 453-458, 460, 461-462, 463 <i>Algebra Lab</i> 431-432, 445-446 <i>Study Tip</i> 402, 403, 404, 434, 440, 441, 449, 455 <i>Watch Out!</i> 454 Teacher Edition: AE 402-404, 434-435, 440-441, 448-449, 454-455; WO 403</p>
<p>M11.D.2.2.2 Factor algebraic expressions, including difference of squares and trinomials (trinomials limited to the form ax^2+bx+c where a is not equal to 0).</p>	<p>Student Edition: 471-474, 475, 476-482, 483-484, 485-491, 492, 493-498, 499-504, 505-512 <i>Algebra Lab</i> 475, 483-484 <i>Reading Math</i> 477 <i>Study Tip</i> 477, 494, 500, 506 <i>Test-Taking Tip</i> 501 Teacher Edition: AE 472, 477-479, 486-488, 494-495, 500-501, 506-508; DI 474, 482</p>
<p>M11.D.2.2.3 Simplify algebraic fractions.</p>	<p>Student Edition: 408-415, 677, 684-690, 691, 692-698, 699, 700-705, 706-713, 714-719, 728-730, 731, 840-842 <i>Algebra Lab</i> 677 <i>Graphing Technology Lab</i> 691 <i>Study Tip</i> 409, 410, 411, 693, 694, 710, 716 <i>Watch Out!</i> 701, 707 Teacher Edition: AE 409-412, 685-687, 693-694, 701-702, 707-710, 715-716; WO 410, 411</p>

STANDARDS	PAGE REFERENCES
ASSESSMENT ANCHOR	
M11.D.3 Analyze change in various contexts.	
M11.D.3.1 Describe and/or determine change. Reference: 2.8.8.J, 2.11.8.B	
M11.D.3.1.1 Identify, describe and/or use constant or varying rates of change.	Student Edition: 169, 170-178, 179, 180-186, 187-193, 195-200, 203-204, 205, 536 <i>Algebra Lab</i> 169, 536 <i>Study Tip</i> 174, 181 Teacher Edition: AE 171-174, 181-182, 190, 196-197; ETC 169; FCA 536; SQ 170; WCG 169, 536
M11.D.3.1.2 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 ?).	Student Edition: 195-200, 222-223, 670-676 <i>Graphing Technology Lab</i> 222-223 <i>Reading Math</i> 671 <i>Study Tip</i> 671, 672 Teacher Edition: AE 671-672; FCA 223; FMC 197, 672
M11.D.3.2 Compute and/or use the slope of a line. Reference: 2.8.11.J, 2.8.11.L	
M11.D.3.2.1 Apply the formula for the slope of a line to solve problems (formula given on reference sheet).	Student Edition: 169, 170-178, 179, 180-186, 189-193, 195-199, 203-204, 205, 213, 222-223, 231-236 <i>Algebra Lab</i> 169 <i>Graphing Technology Lab</i> 213, 222-223 <i>Study Tip</i> 171, 172, 181, 232, 233 Teacher Edition: AE 171-174, 181-182, 190; FMC 173, 174; SQ 170; TNT 171; TOD 178; WO 174, 176
M11.D.3.2.2 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.	Student Edition: 214-221, 224-230, 231-236, 237-243, 244, 245-251, 253-260, 268, 271-273, 275, 339 #65-#68, 381 #62-#67, 822-823 Teacher Edition: AE 215, 216-217, 225-226, 232-233, 238-239, 246-247, 254-255

STANDARDS	PAGE REFERENCES
<p>M11.D.3.2.3 Compute the slope and/or y-intercept represented by a linear equation or graph.</p>	<p>Student Edition: 154-160, 161-166, 167-168, 169, 170-178, 179, 180-186, 203, 205 <i>Algebra Lab</i> 169 <i>Graphing Technology Lab</i> 167-168 <i>Study Tip</i> 174, 181 Teacher Edition: AE 171-174, 181-182; DI 173, 178; FCA 168; FMC 173, 174; WO 176</p>
<p>ASSESSMENT ANCHOR</p>	
<p>M11.D.4 Describe or use models to represent quantitative relationships.</p>	
<p>M11.D.4.1 Interpret and/or use linear, quadratic and/or exponential functions and their equations, graphs or tables. Reference: 2.8.11.K, 2.8.11.Q</p>	
<p>M11.D.4.1.1 Match the graph of a given function to its table or equation.</p>	<p>Student Edition: 79 #46, 197-198, 204, 209 #11, 216, 590-591 Teacher Edition: AE 197, 216; FA 591; FCA 591; TT 590; WCG 591</p>
<p>M11.E Data Analysis and Probability</p>	
<p>ASSESSMENT ANCHOR</p>	
<p>M11.E.1 Formulate or answer questions that can be addressed with data and/or organize, display, interpret or analyze data.</p>	
<p>M11.E.1.1 Appropriately display and/or use data in problem-solving settings. Reference: 2.6.11.A, 2.6.8.E</p>	
<p>M11.E.1.1.1 Create and/or use appropriate graphical representations of data, including box-and-whisker plots, stem-and-leaf plots or scatter plots.</p>	<p>Student Edition: P40-P43, P45, 9 #51, 245-251, 252, 253-260, 268 #65-#68, 273, 275, 276-277, 580, 581 #13, 746-755 <i>Algebra Lab</i> 252 <i>Preparing for Standardized Tests</i> 276-277 <i>Study Tip</i> P42, 246 Teacher Edition: AE P40-P42, 246-247, 254-255, 580, 747-749; DI 246, 249; SQ 245; TWT P42, 247, 255; WO 248</p>

STANDARDS	PAGE REFERENCES
<p>M11.E.1.1.2 Analyze data and/or answer questions based on displayed data (box-and-whisker plots, stem-and-leaf plots or scatter plots).</p>	<p>Student Edition: P40-P43, P45, 9 #51, 245-251, 252, 253-260, 268, 276-277, 746-755, 756-762, 763 <i>Algebra Lab</i> 252 <i>Preparing for Standardized Tests</i> 276-277 <i>Study Tip</i> P42, 246, 758, 759</p> <p>Teacher Edition: AE P40-P42, 246-247, 254-255, 747-749, 757-759; DI 246, 249, 762; SQ 245; WCG 252; WO 248</p>
<p>ASSESSMENT ANCHOR</p>	
<p>M11.E.2 Select and/or use appropriate statistical methods to analyze data.</p>	
<p>M11.E.2.1 Use measures of central tendency to describe a set of data. <i>Reference: 2.6.8.A, 2.6.11.A</i></p>	
<p>M11.E.2.1.1 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.</p>	<p>Student Edition: P37-P39, P45, 9 #48-#50, 29 #68-#70, 746-755, 757-762, 763, 770 <i>Study Tip</i> 758</p> <p>Teacher Edition: AE P37-P38, 747, 758; DI 762; FMC 747; NTM P39; SQ 747; TNT P39; TWT P37, 748</p>
<p>M11.E.2.1.2 Calculate and/or interpret the range, quartiles and interquartile range of data.</p>	<p>Student Edition: P38-P39, 9 #51, 756-762, 763 <i>Study Tip</i> P38, P42</p> <p>Teacher Edition: AE P38, 758-759; TNT P39; YN P43</p>
<p>M11.E.2.1.3 Describe how outliers affect measures of central tendency.</p>	<p>Student Edition: P42-P43, 258, 747-751, 755, 762 #32-#33, 763 #10-#11</p> <p>Teacher Edition: AE 747; DI 258; FMC 747; WO P43</p>

STANDARDS		PAGE REFERENCES
ASSESSMENT ANCHOR		
M11.E.3 Understand and/or apply basic concepts of probability or outcomes.		
M11.E.3.1 Apply probability and/or odds to practical situations. <i>Reference: 2.7.11.A, 2.7.11.E</i>		
M11.E.3.1.1 Find probabilities for independent, dependent or compound events and represent as a fraction, decimal or percent).	Student Edition: P33-P36, 726 #61-#63, 767-770, 771-778, 779-784, 785-786, 787-792, 796, 797, 798-799, 844 <i>Graphing Calculator Lab 785-786</i> <i>Preparation for Standardized Tests 798-799</i> <i>Study Tip 773</i> Teacher Edition: AE P35-P37, 767, 772-774, 780-781, 788-789, 799; DI 773, 778; FMC 773; SQ 771; TOD 778; WO 775, 777	
M11.E.3.1.2 Find, convert and/or compare the probability and/or odds of a simple event.	Student Edition: P35-P37, P45 #59-#62, 788-789, 799 <i>Study Tip P35</i> Teacher Edition: AE P35; WO P36	
M11.E.3.2 Apply counting techniques in problem-solving settings. <i>Reference: 2.7.8.A</i>		
M11.E.3.2.1 Determine the number of permutations and/or combinations or apply the fundamental counting principle (formula provided on the reference sheet).	Student Edition: P34-P37, P45, 764-770, 778 #43, 784 #28, 793, 795, 797, 800, 843 <i>Study Tip P34, P36, 765, 766</i> <i>Watch Out! 767</i> Teacher Edition: AE P34-P35, 765-767; DI 766, 770; FMC 765, 766; SQ 764; TNT 767; TWT 765; WO 768	

STANDARDS		PAGE REFERENCES
ASSESSMENT ANCHOR		
M11.E.4	Develop and/or evaluate inferences and predictions or draw conclusions based on data or data displays.	
M11.E.4.1	Make predictions using data displays and probability. <i>Reference: 2.7.8.E, 2.6.11.D</i>	
M11.E.4.1.1 Estimate or calculate to make predictions based on a circle, line, bar graph or given situation.	Student Edition: P40-P43, P45, 9 #51, 245-251, 252, 253-260, 268, 276-277, 739, 746-755, 756-762, 763 <i>Algebra Lab 252</i> <i>Preparing for Standardized Tests 276-277</i> <i>Study Tip P42, 246, 758, 759</i> Teacher Edition: AE P40-P42, 246-247, 254-255, 747-749, 757	
M11.E.4.1.2 Use probability to predict outcomes.	Student Edition: P33-P36, 726 #61-#63, 767-770, 771-778, 779-784, 785-786, 787-792, 796, 797, 798-799, 844 <i>Graphing Calculator Lab 785-786</i> <i>Preparation for Standardized Tests 798-799</i> <i>Study Tip 773</i> Teacher Edition: AE P35-P37, 767, 772-774, 780-781, 788-789, 799; DI 773, 778; FMC 773; SQ 771; TOD 778; WO 775, 777	
M11.E.4.2	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>	
M11.E.4.2.1 Draw, find and/or write an equation for a line of best fit for a scatter plot.	Student Edition: 245-251, 252, 253-260, 268, 273, 275, 276-277 <i>Algebra Lab 252</i> <i>Preparation for Standardized Tests 276-277</i> Teacher Edition: AE 246-247, 254-255, 277; DI 246, 249, 255, 258; FMC 247, 254; SQ 245, 253; TNT 255; TWT 247, 255; WO 248	

STANDARDS	PAGE REFERENCES
<p>M11.E.4.2.2 Make predictions using the equations or graphs of best-fit lines of scatter plots.</p>	<p>Student Edition: 245-251, 252, 253-260, 268, 273, 275, 276-277 <i>Algebra Lab</i> 252 <i>Preparation for Standardized Tests</i> 276-277 <i>Study Tip</i> 246</p> <p>Teacher Edition: AE 246-247, 254-255, 277; DI 246, 249; FMC 247; SQ 245, 253; TWT 247; WCG 252; WO 248</p>