



Algebra 1

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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.	
M11.A.1.1	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>	
M11.A.1.1.1	Find the square root of an integer to the nearest tenth using either a calculator or estimation.	Student Edition: 46-52, 545 #57-#62, 549-554, 555-559 Teacher Wraparound Edition: AE 47, 49; EA 532, 538
M11.A.1.1.2	Express numbers and/or simplify expressions using scientific notation (including numbers less than 1).	Student Edition: 372 #42-#47 Quick Review Math Handbook Book 3 182-187
M11.A.1.1.3	Simplify square roots. (e.g., $\sqrt{24} = 2\sqrt{6}$)	Student Edition: 528-534, 536-540, 555-559 <i>Graphing Calculator Lab</i> 535 Teacher Wraparound Edition: AE 529-531, 537

STANDARDS	PAGE REFERENCES
<p>M11.A.1.2 Apply number theory concepts to show relationships between real numbers in problem-solving settings. <i>Reference: 2.1.8.E</i></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: 420-424, 426-431, 614-619, 626-632 <i>Algebra Lab</i> 425 Teacher Wraparound Edition: AE 422, 427, 615 Ex 1; FMC 427, 442; SQ 426; TOD 424</p>
<p>M11.A.1.3 Estimate the value of an irrational number. <i>Reference: 2.2.8.C</i></p>	
<p>M11.A.1.3.1 Locate/identify irrational numbers at the approximate location on a number line.</p>	<p>This standard could be integrated into the lesson found on the following pages. Student Edition: 46-52 This standard could be integrated into the review found on the following pages. Quick Review Math Handbook Book 3 176-181</p>
<p>M11.A.1.3.2 Compare and/or order any real numbers (rational and irrational may be mixed).</p>	<p>Student Edition: 46-52 Teacher Wraparound Edition: AE 47-49; FMC 48; PE 48</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. <i>Reference: 2.2.11.A, 2.8.11.P</i></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: 70-76, 78-84, 85-90, 92-97, 98-103, 105-110, 111-115, 117-121, 122-128, 560-565, 626-632 <i>Algebra Lab</i> 72, 77, 91 <i>Reading Math</i> 116 <i>Spreadsheet Lab</i> 129 Teacher Wraparound Edition: AE 71-73, 79-81, 86-87, 93-94, 99-100, 106-107, 112-113, 118-119, 123-124, 199, 561-562, 578-579; FMC 124; PAA 128; SQ 117, 122-128</p>

STANDARDS	PAGE REFERENCES
<p>M11.A.2.1.2 Solve problems using direct and inverse proportions.</p>	<p>Student Edition: 172-176, 196-202, 577-582 <i>Graphing Calculator Lab</i> 197, 577 Teacher Wraparound Edition: AE 107, 112-113, 123-124, 151, 173-174, 197-198, 561-562, 578-579; FTE 115; PE 579; SQ 172-173, 577-578</p>
<p>M11.A.2.1.3 Identify and/or use proportional relationships in problem-solving settings.</p>	<p>Student Edition: 105-110, 111-115, 172-176, 560-565 <i>Reading Math</i> 116 Teacher Wraparound Edition: AE 106-107, 112-113, 151, 173-174, 199, 561-562, 578-579; FMC 124; PAA 128; SQ 117, 122-123</p>
<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: 6-9, 10-14, 46-52, 322-327, 358-364, 366-373 <i>Algebra Lab</i> 365 <i>Graphing Calculator Lab</i> 367 <i>Reading Math</i> 171 Teacher Wraparound Edition: AE 7, 11-12, 16, 359-361, 367-370, 529-531, 537; FCA 535; FMC 7, 11, 368; M 369; PE 368, 369; SM 360; SQ 358</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: 358-364, 366-373 <i>Algebra Lab</i> 365 <i>Graphing Calculator Lab</i> 367 Teacher Wraparound Edition: AE 359-361, 367-370; FMC 368; I 359; M 369; PE 368, 369, 370; SM 360</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: 10-14, 15-20, 21-25, 33-37, 149-154, 155-161, 471-477 Teacher Wraparound Edition: AE 11-12, 16-17, 23, 27-28, 34-35; FMC 11, 27; NTM 14; PAA 14; SQ 33; ST 31</p>

STANDARDS	PAGE REFERENCES
<p>M11.A.3.2 Use estimation strategies in problem-solving situations. <i>Reference: 2.2.11.B, 2.2.11.D</i></p>	
<p>M11.A.3.2.1 Use estimation to solve problems.</p>	<p>Student Edition: 215 Ex 3, 216 Ex 4, 306 #46, 480-485 Teacher Wraparound Edition: AE 54 Ex 1; FCA 59; PE 579; SQ 53, 99, 358, 376</p>
<p>M11.B Measurement</p>	
<p>ASSESSMENT ANCHOR</p>	
<p>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.</p>	
<p>ASSESSMENT ANCHOR</p>	
<p>M11.B.2 Apply appropriate techniques, tools and formulas to determine measurements.</p>	
<p>M11.B.2.1 Use and/or compare measurements of angles. <i>Reference: 2.3.11.A, 2.3.11.B</i></p>	
<p>M11.B.2.1.1 Measure and/or compare angles in degrees (up to 360°) (protractor must be provided or drawn).</p>	<p>Quick Review Math Handbook Book 3 342-349, 444-451</p>
<p>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></p>	
<p>M11.B.2.2.1 Calculate the surface area of prisms, cylinders, cones, pyramids and/or spheres. Formulas are provided on the reference sheet.</p>	<p>Student Edition: 387 #31-#32, 417 #11, 599 #41 <i>Algebra Lab</i> 142, 365 Teacher Wraparound Edition: AE 12; FCTA 142</p>
<p>M11.B.2.2.2 Calculate the volume of prisms, cylinders, cones, pyramids and/or spheres. Formulas are provided on the reference sheet.</p>	<p>Student Edition: 31 #49, 121 #34, 313 #54, 362 #47-#49, 371 #13, 373 #56, 380 #52-#53 <i>Algebra Lab</i> 365 <i>Prerequisite Skills</i> 708</p>
<p>M11.B.2.2.3 Estimate area, perimeter or circumference of an irregular figure.</p>	<p>Student Edition: 121 #35 Quick Review Math Handbook Book 3 372-377</p>

STANDARDS	PAGE REFERENCES
<p>M11.B.2.2.4 Find the measurement of a missing length given the perimeter, circumference, area or volume.</p>	<p>Student Edition: 88 #27, 118 Ex 3, 306 #47, 440 #29, 451 #34, 605 #47 <i>Prerequisite Skills</i> 707 #15 Teacher Wraparound Edition: AE 100 Ex 4</p>
<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. Reference: 2.3.8.E</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: 31 #49, 43 #37-#38, 373 #56, 565 #31-#33 <i>Algebra Lab</i> 142 Teacher Wraparound Edition: FA 142; FCA 142; PAA 565; PE 370</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. Reference: 2.9.11.F</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: <i>Prerequisite Skills</i> 706-707 Teacher Wraparound Edition: AE 370; PE 370 Quick Review Math Handbook Book 3 388-393</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: Quick Review Math Handbook Book 3 388-393</p>

STANDARDS	PAGE REFERENCES
<p>M11.C.1.2 Recognize and/or apply properties of angles, triangles and quadrilaterals. <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: Teacher Wraparound Edition: AE 12, 377 Ex 2, 400, 450 Quick Review Math Handbook Book 3 342-349</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: 236-241 (especially #16 & #31) Teacher Wraparound Edition: AE 222, 238 Quick Review Math Handbook Book 3 350-359</p>
<p>M11.C.1.2.3 Identify and/or use properties of isosceles and equilateral triangles.</p>	<p>Student Edition: 557 #5, 558 #30 Teacher Wraparound Edition: AE 377 Ex 2 Quick Review Math Handbook Book 3 342-349</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: 560-565 Teacher Wraparound Edition: AE 561-562; FMC 562; NTM 565; PAA 565; PE 561; SQ 560 Quick Review Math Handbook Book 3 424-429</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: 549-554 Teacher Wraparound Edition: AE 550-551; FMC 551; PAA 551; PE 551</p>

STANDARDS	PAGE REFERENCES
ASSESSMENT ANCHOR	
M11.C.2 Identify and/or apply concepts of transformations or symmetry. Not assessed at grade 11.	
ASSESSMENT ANCHOR	
M11.C.3 Locate points or describe relationships using the coordinate plane.	
M11.C.3.1 Solve problems using analytic geometry. Reference: 2.9.11.G	
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).	Student Edition: 555-559 Teacher Wraparound Edition: AE 556; FMC 556; SQ 555
M11.C.3.1.2 Relate slope to perpendicularity and/or parallelism (limit to linear algebraic expressions; slope formula provided on the reference sheet).	Student Edition: 236-241 <i>Algebra Lab</i> 237 Teacher Wraparound Edition: AE 222, 237-239; FMC 238; I 237, 238; RWC 241; SQ 236; TOD 241
M11.D Algebraic Concepts	
ASSESSMENT ANCHOR	
M11.D.1 Demonstrate an understanding of patterns, relations and functions.	
M11.D.1.1 Analyze and/or use patterns or relations. Reference: 2.8.11.Q, 2.8.11.A, 2.8.11.O	
M11.D.1.1.1 Analyze a set of data for the existence of a pattern and represent the pattern algebraically and/or graphically.	Student Edition: 165-170, 172-176 <i>Algebra Lab</i> 59, 142, 145, 186 <i>Reading Math</i> 170 Teacher Wraparound Edition: AE 151, 156-158, 162-163, 173-174, 228-229; FA 142; FCA 59, 142, 163, 203; FMC 167; SQ 149-150, 165-166, 172-173, 227-228, 358; TT 59
M11.D.1.1.2 Determine if a relation is a function given a set of points or a graph.	When interpreted as discrete vs. continuous functions, see the following pages. Student Edition: 53-58 Teacher Wraparound Edition: AE 144-145, 150-151

STANDARDS	PAGE REFERENCES
<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: 143-148 <i>Algebra Lab</i> 145</p> <p>Teacher Wraparound Edition: AE 144-145, 150-151, 472; FMC 146; RT 146; SQ 150</p>
ASSESSMENT ANCHOR	
<p>M11.D.2 Represent and/or analyze mathematical situations using numbers, symbols, words, tables and/or graphs.</p>	
<p>M11.D.2.1 Write, solve and/or graph linear equations and inequalities using various methods. 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</p>	
<p>M11.D.2.1.1 Solve compound inequalities and/or graph their solution sets on a number line (may include absolute value inequalities).</p>	<p>Student Edition: 315-320, 322-327, 329-333 <i>Reading Math</i> 314</p> <p>Teacher Wraparound Edition: AE 316-317, 330-331; FMC 316, 330; I 316; R 317; RWC 20; SM 316; SQ 329</p>
<p>M11.D.2.1.2 Identify or graph functions, linear equations or linear inequalities on a coordinate plane.</p>	<p>Student Edition: 149-154, 155-161, 196-202, 204-209, 227-233, 236-241, 253-258, 334-339, 341-345 <i>Graphing Calculator Lab</i> 162-163, 197, 203, 210-211, 234-235, 340</p> <p>Teacher Wraparound Edition: AE 55-56, 144-145, 151, 156-158, 167, 173-174, 199, 205-206, 222, 229, 335-336, 342-343; FCA 59, 142, 163; FMC 336; NTM 176; PAA 333; SQ 334</p>
<p>M11.D.2.1.3 Write, solve and/or apply a linear equation (including problem situations).</p>	<p>Student Edition: 70-76, 78-84, 85-90, 92-97, 98-103, 105-110, 111-115, 122-128, 213-218, 220-225, 227-233, 236-241 <i>Algebra Lab</i> 77, 91 <i>Graphing Calculator Lab</i> 234-235 <i>Reading Math</i> 116</p> <p>Teacher Wraparound Edition: AE 71-73, 79-81, 86-87, 93-94, 99-100, 150-151, 156-158, 167, 173-174, 205-206, 228-229, 237-239; ETC 77; FCA 142, 163, 235; FMC 100, 190-191; I 79, 87; NTM 103; PAA 25; PE 80; SQ 21, 98-99, 204</p>

STANDARDS	PAGE REFERENCES
<p>M11.D.2.1.4 Write and/or solve systems of equations using graphing, substitution and/or elimination (limit systems to 2 equations).</p>	<p>Student Edition: 253-258, 260-265, 266-270, 272-278, 280-284 <i>Graphing Calculator Lab</i> 259 <i>Reading Math</i> 279 <i>Spreadsheet Lab</i> 252</p> <p>Teacher Wraparound Edition: AE 254-255, 261-262, 267-268, 273-274, 281-282; CE 274; DI 255; FCA 259; FMC 261, 262, 267, 268; I 282; PAA 254, 277; PE 268; SQ 253-254, 260-261, 266-267, 280</p>
<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: 426-431, 434-439, 441-446, 447-452, 454-460</p> <p>Teacher Wraparound Edition: AE 428, 436-437, 443, 449, 456-457; FMC 428; FTE 439; I 457; PAA 446</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: 358-364, 366-373, 376-381, 384-388, 390-395, 398-403, 404-409 <i>Algebra Lab</i> 375, 382-393, 396-397</p> <p>Teacher Wraparound Edition: AE 27-28, 35, 359-361, 385, 391, 399-400, 405-406; FMC 391, 399, 406; I 392; PAA 395, 403; PE 29, SQ 384, 390</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: 420-424, 426-431, 434-439, 441-446, 447-452, 454-460 <i>Algebra Lab</i> 425, 432-433, 447 <i>Reading Math</i> 453</p> <p>Teacher Wraparound Edition: AE 427, 435-437, 442-443, 448-450, 455-457; CE 456; EA 446; FCA 425; FMC 449; PAA 428, 436, 452, 460; PE 442; SM 437; SQ 441; TOD 452</p>

STANDARDS	PAGE REFERENCES
<p>M11.D.2.2.3 Simplify algebraic fractions.</p>	<p>Student Edition: 583-588, 590-594, 595-599, 601-606, 608-613, 614-619, 620-625 <i>Graphing Calculator Lab</i> 589 <i>Reading Math</i> 600</p> <p>Teacher Wraparound Edition: AE 531, 584-585, 591, 596, 602-603, 609-610, 615-616, 621-622; DI 616; FCA 589; FMC 585, 597; FTE 592, 613; I 591; NTM 606; PAA 585, 599, 613, 619, 625; SQ 590, 595, 601, 608</p>
<p>ASSESSMENT ANCHOR</p>	
<p>M11.D.3 Analyze change in various contexts.</p>	
<p>M11.D.3.1 Describe and/or determine change. Reference: 2.8.8.J, 2.11.8.B</p>	
<p>M11.D.3.1.1 Identify, describe and/or use constant or varying rates of change.</p>	<p>Student Edition: 165-170, 172-176, 187-195, 196-202, 577-582 <i>Algebra Lab</i> 186 <i>Graphing Calculator Lab</i> 197, 570</p> <p>Teacher Wraparound Edition: AE 155-156, 188-191, 197-199, 205-206; FA 142; FCA 142, 203, 211; I 190; PAA 195, 215; SQ 92, 187-188, 196, 204, 227, 260</p>
<p>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?).</p>	<p>Student Edition: 196-202, 577-582 (especially #39 & #40) <i>Graphing Calculator Lab</i> 197</p> <p>Teacher Wraparound Edition: AE 197-199; FA 142; FCA 142, 203, 211; SQ 196; WCG 186</p>
<p>M11.D.3.2 Compute and/or use the slope of a line. Reference: 2.8.11.J, 2.8.11.L</p>	
<p>M11.D.3.2.1 Apply the formula for the slope of a line to solve problems (formula given on reference sheet).</p>	<p>Student Edition: 187-195, 196-202, 213-218, 220-225, 236-241 <i>Algebra Lab</i> 237</p> <p>Teacher Wraparound Edition: AE 188-191, 197-199; FCA 203; I 190, 214; PAA 194, 215; SQ 187-188, 196, 261</p>

STANDARDS	PAGE REFERENCES
<p>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.</p>	<p>Student Edition: 213-218, 220-225, 227-233, 236-241 <i>Graphing Calculator Lab</i> 234-235 Teacher Wraparound Edition: AE 197-199, 205-206, 214-216, 221-222; I 214; NTM 225; PAA 215; SQ 204, 213, 220-221</p>
<p>M11.D.3.2.3 Compute the slope and/or y-intercept represented by a linear equation or graph.</p>	<p>Student Edition: 187-195, 196-202, 204-209, 213-218, 220-225, 227-233, 236-241 <i>Algebra Lab</i> 186, 237 <i>Graphing Calculator Lab</i> 203, 210-211 Teacher Wraparound Edition: AE 188-191, 197-199, 205-206, 214-215, 221-222, 228-229, 238-239; DI 206; I 190, 222; PAA 215; SQ 187-188</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: 53-58, 143-148, 149-154, 155-161, 471-477, 502-508 <i>Graphing Calculator Lab</i> 162-163, 478-479, 504 Teacher Wraparound Edition: AE 54-56, 144-145, 151, 156-158, 173-174, 472, 578; FCA 163, 203, 211; I 158; NTM 58; PAA 58; SQ 53, 143-144, 376</p>

STANDARDS	PAGE REFERENCES
M11.E Data Analysis and Probability	
ASSESSMENT ANCHOR	
M11.E.1 Formulate or answer questions that can be addressed with data and/or organize, display, interpret or analyze data.	
M11.E.1.1 Appropriately display and/or use data in problem-solving settings. <i>Reference: 2.6.11.A, 2.6.8.E</i>	
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.	Student Edition: 227-233 <i>Algebra Lab</i> 228 <i>Graphing Calculator Lab</i> 234-235, 515 <i>Prerequisite Skills</i> 713, 714-715 Teacher Wraparound Edition: AE 228-229; SQ 111, 227-228 Quick Review Math Handbook Book 3 202-213, 214-221
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).	Student Edition: 227-233 <i>Algebra Lab</i> 228 <i>Graphing Calculator Lab</i> 234-235, 515 <i>Prerequisite Skills</i> 713, 714-715 Teacher Wraparound Edition: AE 228-229; FCA 59; SQ 111, 227-228, 358; TT 59 Quick Review Math Handbook Book 3 202-213, 214-221
ASSESSMENT ANCHOR	
M11.E.2 Select and/or use appropriate statistical methods to analyze data.	
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>	
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.	Student Edition: <i>Prerequisite Skills</i> 711-712, 713 Quick Review Math Handbook Book 3 222-231
M11.E.2.1.2 Calculate and/or interpret the range, quartiles and interquartile range of data.	Student Edition: <i>Prerequisite Skills</i> 713 Quick Review Math Handbook Book 3 222-231
M11.E.2.1.3 Describe how outliers affect measures of central tendency.	Student Edition: <i>Prerequisite Skills</i> 713

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. Reference: 2.7.11.A, 2.7.11.E		
M11.E.3.1.1 Find probabilities for independent, dependent or compound events and represent as a fraction, decimal or percent).	Student Edition: 663-670, 672-676, 677-683 <i>Prerequisite Skills</i> 709-710 Teacher Wraparound Edition: AE 664-665; DI 664; FMC 665; FTE 669; I 666; PE 665, 667	
M11.E.3.1.2 Find, convert and/or compare the probability and/or odds of a simple event.	Student Edition: <i>Prerequisite Skills</i> 709-710	
M11.E.3.2 Apply counting techniques in problem-solving settings. Reference: 2.7.8.A		
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: 650-654, 655-662 Teacher Wraparound Edition: AE 651-652, 656-657; DI 652; FMC 651, 657; NTM 653; PE 652, 656; SQ 650, 655	
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. Reference: 2.7.8.E, 2.6.11.D		
M11.E.4.1.1 Estimate or calculate to make predictions based on a circle, line, bar graph or given situation.	Student Edition: <i>Prerequisite Skills</i> 714-715 <i>Reading Math</i> 649 Teacher Wraparound Edition: FCA 59; SQ 99, 111, 358 Quick Review Math Handbook Book 3 202-213	
M11.E.4.1.2 Use probability to predict outcomes.	Student Edition: 663-670, 672-676, 677-683 <i>Prerequisite Skills</i> 709-710 Teacher Wraparound Edition: AE 664-666, 674, 678-679; FMC 665; I 666; SQ 677	

STANDARDS	PAGE REFERENCES
<p>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></p>	
<p>M11.E.4.2.1 Draw, find and/or write an equation for a line of best fit for a scatter plot.</p>	<p>Student Edition: 227-233 <i>Algebra Lab</i> 228 <i>Graphing Calculator Lab</i> 234-235, 515 Teacher Wraparound Edition: AE 228-230; FA 516; SQ 227-228 Quick Review Math Handbook Book 3 214-221</p>
<p>M11.E.4.2.2 Make predictions using the equations or graphs of best-fit lines of scatter plots.</p>	<p>Student Edition: 227-233 <i>Algebra Lab</i> 228 <i>Graphing Calculator Lab</i> 234-235, 515 Teacher Wraparound Edition: AE 228-230; FCA 59; TT 59 Quick Review Math Handbook Book 3 214-221</p>