



MathMatters 3

An Integrated Program

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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: <i>Are You Ready?</i> 425 #20-#30 <i>Example</i> 426 <i>Extra Practice</i> 693 <i>Practice Exercises</i> 428 #15-#18 <i>Review and Practice Your Skills</i> 434 #1-#8 <i>Try These Examples</i> 428 #1-#4 Teacher's Edition: CE 427

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: 39 <i>Chapter Assessment</i> 45 #31, #32 <i>Chapter Review</i> 44 #54-#59 <i>Example</i> 39 <i>Extra Practice</i> 665 <i>Practice Exercises</i> 40 #27-#29 <i>Standardized Test Practice</i> 46 #11, #12, #22 <i>Try These Exercises</i> 40 #13-#18 Teacher's Edition: CE 39</p>
<p>M11.A.1.1.3 Simplify square roots. (e.g., $\sqrt{24} = 2\sqrt{6}$)</p>	<p>Student Edition: 427 <i>Chapter Assessment</i> 461 #1 <i>Chapter Review</i> 458 #11 <i>Example</i> 427 <i>Extra Practice</i> 693 <i>Practice Exercises</i> 428 #19-#22 <i>Review and Practice Your Skills</i> 434 #9-#20, 435 #45-#48 <i>Try These Exercises</i> 428 #5-#8 Teacher's Edition: CE 427</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: <i>Example</i> 479 <i>Extra Practice</i> 697 <i>Practice Exercises</i> 480 #22 <i>Review and Practice Your Skills</i> 486 #13-#30, #73-#81 Teacher's Edition: CE 479</p>

STANDARDS		PAGE REFERENCES
<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: <i>Build Understanding</i> 10 <i>Example</i> 11 <i>Extra Practice</i> 662 <i>Practice Exercises</i> 12 #15 <i>Review and Practice Your Skills</i> 14 #31 <i>Try These Exercises</i> 12 #5, #6 Teacher's Edition: CE 11</p>	
<p>M11.A.1.3.2 Compare and/or order any real numbers (rational and irrational may be mixed).</p>	<p>Student Edition: <i>Are You Ready?</i> 243 #32-#39 <i>Review and Practice Your Skills</i> 14 #32</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: <i>Practice Exercises</i> 23 #27, 28 #30, #31, #38, #39 <i>Prerequisite Skills</i> 655-659 <i>Try These Exercises</i> 22 #8-#10, 28 #15</p>	
<p>M11.A.2.1.2 Solve problems using direct and inverse proportions.</p>	<p>Student Edition: <i>Example</i> 297, 581, 585 <i>Extra Practice</i> 683, 704 <i>Practice Exercises</i> 298-299, 303 #11-#15, 582-583, 586-587 <i>Try These Exercises</i> 298, 582, 586</p>	
<p>M11.A.2.1.3 Identify and/or use proportional relationships in problem-solving settings.</p>	<p>The following page references can be used during teacher/class discussion to meet this objective. Student Edition: 297-299, 306-309, 320-323, 326-327</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: <i>Chapter Assessment</i> 45 #29, #30 <i>Example</i> 12, 35 <i>Mixed Review Exercises</i> 23 #37-#44 <i>Practice Exercises</i> 13 #19, #20, 36 #19-#27 <i>Standardized Test Practice</i> 47 #24, #25 <i>Try These Exercises</i> 12 #9, #10, 36 #4-#10</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: 35 <i>Are You Ready?</i> 466 #11-#22 <i>Chapter Review</i> 44 #45-#50 <i>Example</i> 35, 36 <i>Extra Practice</i> 664 <i>Practice Exercises</i> 36 #27-#34, #38-#40 <i>Standardized Test Practice</i> 46 #10, #21 <i>Try These Exercises</i> 36 #9-#15 Teacher's Edition: CE 35</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: <i>Are You Ready?</i> 466 #1-#10 <i>Mixed Review Exercises</i> 23 #45-#52 <i>Review and Practice Your Skills</i> 32 #10-#15</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: 21 <i>Example</i> 21 <i>Review and Practice Your Skills</i> 24 #32, #33 <i>Try These Exercises</i> 22 #11 Teacher's Edition: EL 22</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: <i>Are You Ready?</i> 103 #10-#19 <i>Example</i> 108 <i>Extra Practice</i> 670 <i>Practice Exercises</i> 111 #11-#21 <i>Review and Practice Your Skills</i> 112 #29-#31 <i>Try These Exercises</i> 110 #1-#8 Teacher's Edition: CE 109; FG 109
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: <i>Chapter Assessment</i> 237 #8, #9 <i>Chapter Review</i> 236 #31-#36 <i>Example</i> 224, 225, 226 <i>Extra Practice</i> 679 <i>Practice Exercises</i> 226-227 <i>Review and Practice Your Skills</i> 228 #12-#18, #27, #28 <i>Standardized Test Practice</i> 239 #21, #23 <i>Try These Exercises</i> 226 Teacher's Edition: CE 225; EL 229; PE 225

STANDARDS	PAGE REFERENCES
<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: <i>Chapter Assessment</i> 237 #13-#15 <i>Chapter Review</i> 236 #37-#42 <i>Example</i> 230, 231, 232 <i>Extra Practice</i> 679 <i>Practice Exercises</i> 232-233 <i>Standardized Test Practice</i> 239 #23 <i>Try These Exercises</i> 232</p> <p>Teacher’s Edition: CE 231; EL 233</p>
<p>M11.B.2.2.3 Estimate area, perimeter or circumference of an irregular figure.</p>	<p>The irregular figures on the following pages can be used for estimation.</p> <p>Student Edition: 207, 208, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 233, 234, 235, 237</p>
<p>M11.B.2.2.4 Find the measurement of a missing length given the perimeter, circumference, area or volume.</p>	<p>Student Edition: <i>Chapter Assessment</i> 237 #4 <i>Chapter Review</i> 236 #34 <i>Example</i> 206 <i>Practice Exercises</i> 208 #7, 232 #12</p> <p>Teacher’s Edition: CE 207</p>
<p>M11.B.2.3</p>	<p>Describe how a change in one dimension of a figure (2 or 3 dimensional) affects other measurements of that figure.</p> <p>Reference: 2.3.8.E</p>
	<p>Student Edition: <i>Extended Practice Exercises</i> 227 #19 <i>Extra Practice</i> 677 #7 <i>Practice Exercises</i> 208 #11, 233 #19, #20 <i>Review and Practice Your Skills</i> 211 #28, 229 #19, #20</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? 	

STANDARDS	PAGE REFERENCES
M11.C Geometry	
ASSESSMENT ANCHOR	
M11.C.1 Analyze characteristics and properties of two- and three-dimensional geometric shapes and demonstrate understanding of geometric relationships.	
M11.C.1.1 Identify and/or use parts of circles and segments associated with circles. Reference: 2.9.11.F	
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).	Student Edition: 441 <i>Example 441, 422</i> <i>Extra Practice 694</i> <i>Practice Exercises 443</i> <i>Review and Practice Your Skills 444 #17-#23</i> <i>Try These Exercises 442</i>
M11.C.1.1.2 Identify and/or use the properties of arcs, semicircles, inscribed angles and/or central angles.	Student Edition: <i>Build Understanding 440</i> <i>Example 440, 441</i> <i>Extra Practice 694</i> <i>Practice Exercises 443</i> <i>Review and Practice Your Skills 444 #17-#20</i> <i>Try These Exercises 442</i> Teacher's Edition: CE 441
M11.C.1.2 Recognize and/or apply properties of angles, triangles and quadrilaterals. Reference: 2.9.8.D, 2.9.11.C	
M11.C.1.2.1 Identify and/or use properties of triangles (e.g., medians, altitudes, angle bisectors, side/angle relationships, Triangle Inequality Theorem).	Student Edition: 155, 173 <i>Build Understanding 150</i> <i>Example 155, 156, 173</i> <i>Extra Practice 673</i> <i>Practice Exercises 152 #7-#9, 156-157</i> <i>Try These Exercises 152 #1-#3</i>
M11.C.1.2.2 Identify and/or use properties of quadrilaterals (e.g., parallel sides, diagonals, bisectors, congruent sides/angles and supplementary angles).	Student Edition: <i>Build Understanding 182</i> <i>Chapter Review 194 #37-#45</i> <i>Example 183</i> <i>Practice Exercises 180 #10, #16, 184-185, 190-191</i> <i>Review and Practice Your Skills 186 #12-#22</i> <i>Try These Exercises 180 #1, #2, 184, 190</i> Teacher's Edition: QA 184

STANDARDS	PAGE REFERENCES
<p>M11.C.1.2.3 Identify and/or use properties of isosceles and equilateral triangles.</p>	<p>Student Edition: 161 <i>Build Understanding</i> 150 <i>Example</i> 161 <i>Mid-Chapter Quiz</i> 169 #1, #6 <i>Review and Practice Your Skills</i> 168 #2, #6</p>
<p>M11.C.1.3 Use properties of congruence, correspondence and similarity in problem-solving settings involving two- and three-dimensional figures. Reference: 2.9.11.B</p>	
<p>M11.C.1.3.1 Identify and/or use properties of congruent and similar polygons or solids.</p>	<p>Student Edition: <i>Are You Ready?</i> 148-149, 294-295 <i>Build Understanding</i> 154, 300, 310, 316 <i>Chapter Assessment</i> 331 #4-#8, #11-#14 <i>Chapter Review</i> 328 #18-#21, #28-#37 <i>Check Understanding</i> 154 <i>Example</i> 300, 301, 310, 311, 316, 317, 318 <i>Extra Practice</i> 684, 685 <i>Practice Exercises</i> 302-303, 312-313, 319 <i>Review and Practice Your Skills</i> 304 #23-#29, 314 #20-#25, 324 <i>Standardized Test Practice</i> 332 #9, #23-#25 <i>Try These Exercises</i> 302, 312, 318 Teacher's Edition: CE 301, 311</p>
<p>M11.C.1.4 Solve problems involving right triangles using the Pythagorean Theorem. Reference: 2.10.11.B</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: <i>Build Understanding</i> 430 <i>Chapter Review</i> 458 #17-#20 <i>Example</i> 431 <i>Extra Practice</i> 693 <i>Practice Exercises</i> 432-433 <i>Review and Practice Your Skills</i> 434 #37-#44 <i>Standardized Test Practice</i> 462 #6, #20, #21 <i>Try These Exercises</i> 432 Teacher's Edition: CE 431; DI 431; FG 432</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. <i>Reference: 2.9.11.G</i>	
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: 105 <i>Are You Ready?</i> 337 #34-#41 <i>Build Understanding</i> 541 <i>Chapter Assessment</i> 143 #4, 555 #19-#24 <i>Chapter Review</i> 140 #14, #15, 554 #49-#63 <i>Example</i> 106, 545, 546 <i>Extra Practice</i> 669, 702 <i>Practice Exercises</i> 107 #9-#15, 546-547 <i>Review and Practice Your Skills</i> 112 #1-#6, 548 #14-#36, #43-#51 <i>Try These Exercises</i> 106 #3, 546 Teacher's Edition: TT 544
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: <i>Chapter Assessment</i> 289 #3, #4 <i>Chapter Review</i> 287 #16-#20 <i>Example</i> 248, 249 <i>Extra Practice</i> 680 <i>Practice Exercises</i> 250-251 <i>Review and Practice Your Skills</i> 252 #37-#51, #62-#67 <i>Standardized Test Practice</i> 290 #7 <i>Try These Exercises</i> 250 Teacher's Edition: CE 249; QA 250

STANDARDS	PAGE REFERENCES
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	
<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: <i>Chapter Assessment</i> 97 #1 <i>Chapter Review</i> 94 #11-#13 <i>Example</i> 52 <i>Extra Practice</i> 665 <i>Practice Exercises</i> 54 #7-#12, #16, #17 <i>Review and Practice Your Skills</i> 60 #1-#10, #38-#43 <i>Standardized Test Practice</i> 99 #15 <i>Try These Exercises</i> 54 #1-#5 Teacher’s Edition: CE 53</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: <i>Are You Ready?</i> 518-519 <i>Chapter Assessment</i> 97 #2 <i>Chapter Review</i> 94 #15, #16 <i>Example</i> 57 <i>Extended Practice Exercises</i> 59 #31-#33 <i>Practice Exercises</i> 59 #18-#20 <i>Review and Practice Your Skills</i> 60 #34, #35 <i>Standardized Test Practice</i> 98 #5 <i>Try These Exercises</i> 58 #9, #10 Teacher’s Edition: CE 57</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: <i>Chapter Assessment</i> 97 #2 <i>Chapter Review</i> 94 #15, #16 <i>Example</i> 57 <i>Practice Exercises</i> 59 #18-#20 <i>Review and Practice Your Skills</i> 60 #34-#37 <i>Try These Exercises</i> 58 #9, #10 Teacher’s Edition: CE 57</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. 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	
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: <i>Are You Ready?</i> 243 #23-#31 <i>Example</i> 17 <i>Extra Practice</i> 663 <i>Practice Exercises</i> 19 #18, #19 <i>Review and Practice Your Skills</i> 24 #10-#18 <i>Try These Exercises</i> 18 #5, #6 Teacher's Edition: CE 17	
M11.D.2.1.2 Identify or graph functions, linear equations or linear inequalities on a coordinate plane.	Student Edition: <i>Are You Ready?</i> 242 #1-#9 <i>Chapter Assessment</i> 97 #4, #12, #13 <i>Chapter Review</i> 95 #21-#23, #45-#47 <i>Example</i> 63, 64, 78 <i>Practice Exercises</i> 65 #7-#9, 79 #19-#24 <i>Review and Practice Your Skills</i> 70 #1-#9, #56-#58, 80 #48-#62, 91 #32-#37, #56-#58 <i>Try These Exercises</i> 78 #4-#9	
M11.D.2.1.3 Write, solve and/or apply a linear equation (including problem situations).	Student Edition: <i>Build Understanding</i> 62 <i>Example</i> 62, 63 <i>Practice Exercises</i> 65 #7-#9, #17-#19 <i>Review and Practice Your Skills</i> 70 #1-#9, #16-#18 <i>Try These Exercises</i> 64 #5	

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: <i>Build Understanding</i> 258, 264, 268 <i>Chapter Assessment</i> 289 #10-#17 <i>Chapter Review</i> 287 #26-#28, #30-#32, #34-#36 <i>Example</i> 258, 259, 264, 265, 268, 269 <i>Extra Practice</i> 681, 682 <i>Practice Exercises</i> 261 #8-#12, 266 #6-#11, #16, #17, 270 #9-#16, #19-#24 <i>Review and Practice Your Skills</i> 262 #31-#39, #60-#62, 272 <i>Standardized Test Practice</i> 290 #8, #9, #21 <i>Try These Exercises</i> 260 #3-#5, 266 #1-#4, 270 #1-#4 Teacher's Edition: CE 259, 265, 269</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: <i>Chapter Assessment</i> 555 #7-#9 <i>Chapter Review</i> 553 #20-#22 <i>Example</i> 530, 531, 532 <i>Extra Practice</i> 701 <i>Mid-Chapter Quiz</i> 539 #7-#10 <i>Practice Exercises</i> 532 #7-#15 <i>Review and Practice Your Skills</i> 538 #5-#10 <i>Try These Exercises</i> 532 Teacher's Edition: CE 531</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: <i>Build Understanding</i> 469 <i>Chapter Assessment</i> 513 #1-#10 <i>Chapter Review</i> 510 #11-#26, #35-#42 <i>Example</i> 469, 472, 473, 482, 483 <i>Extra Practice</i> 696, 697 <i>Practice Exercises</i> 470, 475, 484 <i>Problem Solving Tip</i> 469 <i>Review and Practice Your Skills</i> 476-477, 486 #31-#60, #63-#72, #82-#90 <i>Try These Exercises</i> 470, 474, 483 Teacher's Edition: CE 470, 473, 483; PE 484</p>

STANDARDS	PAGE REFERENCES
<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: <i>Build Understanding</i> 492 <i>Chapter Assessment</i> 513 #11-#24 <i>Chapter Review</i> 511 #51-#66 <i>Example</i> 493 <i>Extra Practice</i> 698-699 <i>Practice Exercises</i> 494 #12-#26, 500 #32-#43 <i>Review and Practice Your Skills</i> 496 #28-#63, 504 #1-#45, 505 #72-#79, #90-#101 <i>Standardized Test Practice</i> 514 #12 <i>Try These Exercises</i> 494 #1-#9, 500 #11-#14</p>
<p>M11.D.2.2.3 Simplify algebraic fractions.</p>	<p>The following page references can be expanded to include algebraic fractions. Student Edition: 469-471</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. <i>Reference: 2.8.8.J, 2.11.8.B</i></p>	
<p>M11.D.3.1.1 Identify, describe and/or use constant or varying rates of change.</p>	<p>The following page references can be used during a teacher/class discussion about rates of change. Student Edition: 244-246, 520-521, 594-595</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>The following page references can be used during teacher/class discussion. Student Edition: 580-583, 588</p>

STANDARDS	PAGE REFERENCES
<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: <i>Build Understanding</i> 244 <i>Chapter Assessment</i> 289 #1, #2 <i>Chapter Review</i> 286 #11-#15 <i>Example</i> 244, 245 <i>Extended Practice Exercises</i> 247 #42, #47 <i>Extra Practice</i> 679 <i>Practice Exercises</i> 246-247 <i>Review and Practice Your Skills</i> 252 #1-#36 <i>Standardized Test Practice</i> 291 #19 <i>Try These Exercises</i> 246</p>
<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: <i>Build Understanding</i> 254 <i>Chapter Assessment</i> 289 #6-#9 <i>Chapter Review</i> 287 #21, #22, #25 <i>Example</i> 254, 255 <i>Extra Practice</i> 256 <i>Practice Exercises</i> 256-257 <i>Review and Practice Your Skills</i> 262 #1-#27, #54-#59 <i>Try These Exercises</i> 256</p> <p>Teacher's Edition: CE 255; TT 254</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: <i>Example</i> 244, 245 <i>Practice Exercises</i> 246 #15-#18, #25-#30 <i>Review and Practice Your Skills</i> 252 #16-#23, #56-#61, 281 #35-#40 <i>Try These Exercises</i> 246 #6-#9</p>

STANDARDS	PAGE REFERENCES
ASSESSMENT ANCHOR	
M11.D.4 Describe or use models to represent quantitative relationships.	
M11.D.4.1 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>	
M11.D.4.1.1 Match the graph of a given function to its table or equation.	The following page references include concepts that can be extended to meet this objective. Student Edition: 62, 520, 521, 595 <i>Are You Ready?</i> 518-519
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: <i>Chapter Assessment</i> 97 #19, #20, 419 #7-#10 <i>Chapter Review</i> 96 #50, #51, 418 #3-#36 <i>Example</i> 86, 87, 406, 407, 408 <i>Extra Practice</i> 669, 692 <i>Practice Exercises</i> 88-89, 409 <i>Review and Practice Your Skills</i> 90 #11-#19, 410 #25-#29 <i>Standardized Test Practice</i> 98 #10, #22, 420 #11, #20 <i>Try These Exercises</i> 88, 408 Teacher's Edition: CE 87, 407; EL 86; FG 408
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: <i>Chapter Assessment</i> 419 #9-#11 <i>Practice Exercises</i> 89 #15-#18, 409 #9-#11 <i>Review and Practice Your Skills</i> 90 #14-#19 <i>Standardized Test Practice</i> 98 #10

STANDARDS		PAGE REFERENCES
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. Reference: 2.6.8.A, 2.6.11.A		
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>Example 83</i> <i>Practice Exercises 85 #12</i> <i>Try These Exercises 84 #3</i>	
M11.E.2.1.2 Calculate and/or interpret the range, quartiles and interquartile range of data.	Student Edition: <i>Are You Ready? 51 #25-#28</i> <i>Chapter Review 418 #35, #36</i> <i>Example 407</i> <i>Extra Practice 692</i> <i>Try These Exercises 408 #4</i>	
M11.E.2.1.3 Describe how outliers affect measures of central tendency.	The following page references can be used during teacher/class discussion to meet this objective. Student Edition: 87 <i>Chapter Assessment 97 #20</i> <i>Chapter Review 96 #51</i> <i>Practice Exercises 88 #8</i> <i>Try These Exercises 88 #2</i>	
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: <i>Build Understanding 392, 396</i> <i>Chapter Assessment 419 #1-#4</i> <i>Chapter Review 417 #21-#28</i> <i>Example 392, 393, 396, 397</i> <i>Extra Practice 690, 691</i> <i>Practice Exercises 394-395, 398-399</i> <i>Review and Practice Your Skills 400</i> <i>Try These Exercises 394, 398</i> Teacher's Edition: CE 393, 397	

STANDARDS	PAGE REFERENCES
<p>M11.E.3.1.2 Find, convert and/or compare the probability and/or odds of a simple event.</p>	<p>Student Edition: <i>Chapter Review</i> 416 #11-#17 <i>Example</i> 384, 385, 386 <i>Extra Practice</i> 690 <i>Practice Exercises</i> 386-387 <i>Review and Practice Your Skills</i> 390 #1-#30 <i>Try These Exercises</i> 386</p> <p>Teacher’s Edition: CE 385; PE 384</p>
<p>M11.E.3.2 Apply counting techniques in problem-solving settings. Reference: 2.7.8.A</p>	
<p>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).</p>	<p>Student Edition: <i>Build Understanding</i> 402 <i>Chapter Assessment</i> 419 #5, #6 <i>Chapter Review</i> 417 #29-#31 <i>Example</i> 402, 403, 404 <i>Extra Practice</i> 691 <i>Practice Exercises</i> 404-405 <i>Review and Practice Your Skills</i> 410 #1-#24 <i>Try These Exercises</i> 404</p> <p>Teacher’s Edition: CE 403</p>
<p>ASSESSMENT ANCHOR</p>	
<p>M11.E.4 Develop and/or evaluate inferences and predictions or draw conclusions based on data or data displays.</p>	
<p>M11.E.4.1 Make predictions using data displays and probability. Reference: 2.7.8.E, 2.6.11.D</p>	
<p>M11.E.4.1.1 Estimate or calculate to make predictions based on a circle, line, bar graph or given situation.</p>	<p>The following data display page references can be expanded to meet this objective.</p> <p>Student Edition: 86-889, 406-409, 446-447</p>
<p>M11.E.4.1.2 Use probability to predict outcomes.</p>	<p>Student Edition: <i>Example</i> 385 <i>Practice Exercises</i> 386 #8, #17 <i>Review and Practice Your Skills</i> 390 #29, #30 <i>Try These Exercises</i> 386 #3</p>

STANDARDS	PAGE REFERENCES
<p>M11.E.4.2 <i>Analyze and/or interpret data on a scatter plot and/or use a scatter plot to make predictions.</i></p> <p>Reference: 2.6.11.C, 2.6.11.D</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>The following page references can be expanded to meet this objective.</p> <p>Student Edition: 406-409</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: <i>Chapter Assessment 419 #8</i> <i>Example 407</i> <i>Try These Exercises 408 #3</i></p> <p>Teacher's Edition: CE 407</p>