



Math Connects

Concepts, Skills, and Problem Solving

Course 3

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STANDARDS	PAGE REFERENCES
<p>MA 8.1 Students will communicate number sense concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.</p>	
<p>MA 8.1.1 Number System: Students will represent and show relationships among real numbers.</p>	
<p>MA 8.1.1.a Compare and order real numbers</p>	<p>Student Edition: <i>Check Your Understanding</i> 93, 258 #10-#12 <i>Example</i> 91-93, 258 <i>Get Ready</i> 91, 147 #50-#53 <i>Mid-Chapter Quiz</i> 113 #4-#8 <i>Practice and Problem Solving</i> 94-95, 259 #41-#45, 260-261 <i>Reading to Solve Problems</i> 262 <i>Spiral Review</i> 101 #55-#57, 107 #55, 267 #33, 261 #74-#76 <i>Study Guide and Review</i> 135 2-2, 296 5-2</p> <p>Teacher's Wraparound Edition: AE 92, 93, 258; DI 93; FM 92</p>

STANDARDS	PAGE REFERENCES
<p>MA 8.1.1.b Demonstrate relative position of real numbers on the number line (e.g., square root of 2 is left of 1.5)</p>	<p>Student Edition: 35, 36, 148 <i>Example 36</i>, 41-42, 91-93, 148, 149, 156, 157 <i>Mini Lab</i> 148 <i>Practice and Problem Solving</i> 38 #35-#36, 94 #30-#31, 159 #42 <i>Test Practice</i> 95 #42, 151 #35</p> <p>Teacher’s Wraparound Edition: AE 156; DI 93; VKL 41a</p>
<p>MA 8.1.1.c Represent small numbers using scientific notation</p>	<p>The following examples represent both small and large numbers with scientific notation.</p> <p>Student Edition: 130 <i>Check Your Understanding</i> 128 #8, 132 <i>Example</i> 130-131 <i>Mini Lab</i> 130 <i>Practice and Problem Solving</i> 128 #28-#31, 132-133 <i>Spiral Review</i> 151 #37, 426 #54 <i>Test Practice</i> 133</p> <p>Teacher Edition: AE 131; AM 130a; FM 131; PA 133; T 130; TT 133</p>
<p>MA 8.1.1.d Classify numbers as natural, whole, integer, rational, irrational, or real</p>	<p>Student Edition: 155-156 <i>Check Your Understanding</i> 150, 158 <i>Example</i> 148-149, 156-157 <i>Get Ready</i> 155 <i>Geometry Lab</i> 172 <i>Mid-Chapter Quiz</i> 160 #21-#26 <i>Practice and Problem Solving</i> 150-151, 158-159 <i>Test Practice</i> 151</p> <p>Teacher Edition: AE 149, 156, 157; FM 149, 156 T 155</p>

STANDARDS	PAGE REFERENCES
MA 8.1.2 Operations: Students will demonstrate the meaning of arithmetic operations with integers.	
MA 8.1.2.a Use drawings, words, and symbols to explain the meaning of addition, subtraction, multiplication, and division of integers.	<p>Student Edition: 51, 52, 53 <i>Algebra Lab</i> 40, 432-433 <i>Example</i> 41, 42, 57, 58, 67, 422 <i>Get Ready</i> 56 <i>Mini Lab</i> 46, 65, 416 <i>Practice and Problem Solving</i> 45 #42 <i>Spiral Review</i> 73 #38 <i>Test Practice</i> 49 #50</p> <p>Teacher Edition: BV 57a; DI 42; MC 56a; PA 45, 47; T 51; UM 41a, 422a; VKL 41a; VR 434a; WDE 70a</p>
MA 8.1.2.b Use words and symbols to explain the zero property of multiplication (e.g., if $ab = 0$ then a or b or both must be zero)	<p>Student Edition: 52</p>
MA 8.1.2.c Use words and symbols to explain why division by zero is undefined	<p>This objective can be met through classroom discussion and activities.</p>
MA 8.1.3 Computation: Students will compute fluently and accurately using appropriate strategies and tools.	
MA 8.1.3.a Compute accurately with rational numbers	<p>Student Edition: 46, 51-53, 96, 102-103 <i>Check Your Understanding</i> 44, 48, 54, 99, 105, 110, 116, 121 <i>Example</i> 41-43, 47, 51-54, 97-98, 102-104, 108-109, 114-115, 119-120 <i>Get Ready</i> 41, 51, 102, 108, 114 <i>Mini Lab</i> 46, 96 <i>Practice and Problem Solving</i> 44-45, 48-49, 55-56, 99-101, 105-107, 110-111, 116-117, 121-122 <i>Test Practice</i> 45, 101, 107, 112, 117</p> <p>Teacher Edition: A 123; AE 42, 43, 47, 52, 53, 97, 98, 103, 104, 115, 116, 120; PA 47; UM 114a</p>

STANDARDS	PAGE REFERENCES
<p>MA 8.1.3.b Evaluate expressions involving absolute value of integers</p>	<p>Student Edition: 36 <i>Check Your Understanding</i> 37 #5-#12 <i>Example</i> 36-37 <i>Practice and Problem Solving</i> 38 #25-#38, 39 #44-#45 <i>Spiral Review</i> 49 #52-#55 <i>Study Guide and Review</i> 76 1-3</p> <p>Teacher Edition: AE 36, 36; T 35; TT 37</p>
<p>MA 8.1.3.c Calculate squares of integers, the square roots of perfect squares, and the square roots of whole numbers using technology</p>	<p>Student Edition: 144-145 <i>Check Your Understanding</i> 146, 150 <i>Example</i> 144-145, 148-149 <i>Mini Lab</i> 144, 148 <i>Practice and Problem Solving</i> 146-147, 150-151 <i>Spiral Review</i> 151 #36 <i>Study Guide and Review</i> 180 3-1, 3-2 <i>Test Practice</i> 147, 151</p> <p>Teacher Edition: A 147; AE 145, 149; AM 148a; FM 149; RM 144a; T 144; TT 145, 147; VL 148a</p>
<p>MA 8.1.3.d Select, apply, and explain the method of computation when problem solving using rational numbers (e.g., models, mental computation, paper-pencil, technology, divisibility rules)</p>	<p>Student Edition: 268-269 <i>Check Your Understanding</i> 270 <i>Example</i> 163, 268-269 <i>Get Ready</i> 268 <i>Practice and Problem Solving</i> 177 #41, 270-271, 431 #28 <i>Study Tip</i> 156</p> <p>Teacher Edition: AE 269; FM 269; SL 62a; T 268; TT 269</p>

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<p>MA 8.1.3.e Solve problems involving ratios and proportions (e.g., $x/5 = 10/17$)</p>	<p>Student Edition: 190, 194, 198, 204, 210, 232, 252 <i>Check Your Understanding</i> 176 #13, 192, 195, 201, 207, 212 <i>Example</i> 190-191, 194-195, 198-200, 204-206, 211-212 <i>Get Ready</i> 190, 194, 198, 204, 210, 232, 252 <i>Mid-Chapter Quiz</i> 215 <i>and Problem Solving</i> 192-193, 196-197, 201-203, 207-209, 213-214, 234-235 <i>Real-World Example</i> 149, 175, 191 <i>Test Practice</i> 193, 235</p> <p>Teacher Edition: A 193; AE 175, 191, 195, 199, 205, 206, 212 DI 191; PA 212; UM 210a</p>
<p>MA 8.1.4 Estimation: Students will estimate and check reasonableness of answers using appropriate strategies and tools.</p>	
<p>MA 8.1.4.a Use estimation methods to check the reasonableness of solutions for problems involving rational numbers</p>	<p>Student Edition: <i>Analyze The Strategy</i> 272 <i>Example</i> 26 <i>Mid-Chapter Quiz</i> 274 #22 <i>Mini Lab</i> 24 <i>Practice and Problem Solving</i> 33 #39-#40 <i>P.S.I. Team</i> 272 <i>Spiral Review</i> 278 #37, 283 #32 <i>Study Guide and Review</i> 297 5-5</p> <p>Teacher Edition: AE 272; T 272</p>

STANDARDS	PAGE REFERENCES
<p>MA 8.2 Students will communicate geometric concepts and measurement concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.</p>	
<p>MA 8.2.1 Characteristics: Students will describe, compare, and contrast characteristics, properties, and relationships of geometric shapes and objects.</p>	
<p>MA 8.2.1.a Identify and describe similarity of three-dimensional objects</p>	<p>Student Edition: 399-400 <i>Check Your Understanding</i> 402 <i>Example</i> 399-401 <i>Get Ready</i> 399 <i>Practice and Problem Solving</i> 402-403 <i>Spreadsheet Lab</i> 397-398 <i>Study Guide and Review</i> 408 7-9 <i>Test Practice</i> 404 Teacher Edition: AE 400, 401; RPC 399a; T 399; TT 401</p>
<p>MA 8.2.1.b Compare and contrast relationships between similar and congruent objects</p>	<p>Student Edition: 218-219 <i>Check Your Understanding</i> 222 <i>Example</i> 219-221 <i>Geometry Lab</i> 224, 312-313 <i>Mini Lab</i> 218 <i>Practice and Problem Solving</i> 222-223 Teacher Edition: AE 219; SQ 218; V 218a</p>
<p>MA 8.2.1.c Identify geometric properties of parallel lines cut by a transversal and related angles (e.g., perpendicular and parallel lines with transversals) and angles (e.g., corresponding, alternate interior, alternate exterior)</p>	<p>Student Edition: 307 <i>Check Your Understanding</i> 309 #9 <i>Geometry Lab</i> 312-313 <i>Mid-Chapter Quiz</i> 326 #5-#8 <i>Mini Lab</i> 306 <i>Practice and Problem Solving</i> 310 <i>Real-World Example</i> 308 <i>Test Practice</i> 311 <i>Transversals and Angles</i> 308 Teacher Edition: FM 307; T 306</p>

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MA 8.2.1.d Identify pairs of angles (e.g., adjacent, complementary, supplementary, vertical)	<p>Student Edition: <i>Check Your Understanding</i> 309 #1-#8 <i>Example</i> 67 <i>Geometry Lab</i> 312-313 <i>Mid-Chapter Quiz</i> 326 #5-#9 <i>Practice and Problem Solving</i> 68 #20, 309 #10-#23 <i>Special Pairs of Angles</i> 306</p> <p>Teacher Edition: AE 307, 308</p>
MA 8.2.1.e Examine the relationships of the interior angles of a triangle (e.g., the sum of the angles is 180 degrees)	<p>Student Edition: <i>Check Your Understanding</i> 322 #3, #6 <i>Example</i> 321 <i>Option</i> 305 #10-#13 <i>Spiral Review</i> 331 #20</p> <p>Teacher Edition: AE 321; LR 316a</p>
<p>MA 8.2.2 Coordinate Geometry: Students will specify locations and describe relationships using coordinate geometry.</p>	
MA 8.2.2.a Use coordinate geometry to represent and examine the properties of rectangles and squares using horizontal and vertical segments	<p>Student Edition: <i>Check Your Understanding</i> 339 <i>Example</i> 175, 332-334, 337 <i>Get Ready</i> 173, 331 <i>Practice and Problem Solving</i> 177 #36-#37, 335 #4-#5, 336 #15-#16, 340 #6-#11 <i>Study Guide and Review</i> 182 3-7 <i>Test Practice</i> 178, 336</p> <p>Teacher Edition: AE 175, 333, 338, 339; EC 337a; SQ 327, 337</p>
<p>MA 8.2.3 Transformations: Students will perform transformations and use them to analyze the orientation and size of geometric shapes.</p>	
MA 8.2.3.a Identify the similarity of dilated shapes	<p>Student Edition: <i>Check Your Understanding</i> 228 <i>Example</i> 227 <i>Get Ready</i> 331 #26 <i>Mini Lab</i> 225 <i>Practice and Problem Solving</i> 28-230 <i>Spreadsheet Lab</i> 231 <i>Test Practice</i> 230</p> <p>Teacher Edition: AE 226, 227; FM 226; PA 227; SQ 225</p>

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<p>MA 8.2.3.b Perform and describe positions and sizes of shapes under dilations (e.g., scale factor, ratios)</p>	<p>Student Edition: <i>Check Your Understanding</i> 228 <i>Example</i> 225-227 <i>Mini Lab</i> 225 <i>Practice and Problem Solving</i> 28-230 <i>Spreadsheet Lab</i> 231 <i>Test Practice</i> 230</p> <p>Teacher Edition: AE 226, 227; FM 226; PA 227; SQ 225</p>
<p>MA 8.2.4 Spatial Modeling: Students will use visualization, spatial reasoning, and geometric modeling to solve problems.</p>	
<p>MA 8.2.4.a Draw geometric objects with specified properties (e.g., parallel sides, number of sides, angle measures, number of faces)</p>	<p>Student Edition: <i>Check Your Understanding</i> 334 #1-#2 <i>Example</i> 225, 332-333, 337-338 <i>Geometry Lab</i> 312-313, 324-325, 358-359 <i>Practice and Problem Solving</i> 335 #4-#9, 340 #5-#11 <i>Spiral Review</i> 431 #40</p> <p>Teacher Edition: AE 333, 338; EC 337a; TT 312, 325</p>
<p>MA 8.2.5 Measurement: Students will select and apply appropriate procedures, tools, and formulas to determine measurements.</p>	
<p>MA 8.2.5.a Use strategies to find the perimeter and area of complex shapes</p>	<p>Student Edition: 363 <i>Check Your Understanding</i> 365 <i>Example</i> 364-365 <i>Get Ready</i> 363 <i>Practice and Problem Solving</i> 366-367 <i>Spiral Review</i> 372 #29 <i>Study Guide and Review</i> 406 7-3 <i>Test Practice</i> 367</p> <p>Teacher Edition: AE 364, 365; T 363</p>

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<p>MA 8.2.5.b Determine surface area and volume of three-dimensional objects (e.g., rectangular prisms, cylinders)</p>	<p>Student Edition: 373, 380, 386, 388, 394 <i>Check Your Understanding</i> 375, 382, 389, 395 <i>Example</i> 373-375, 381, 386 <i>Get Ready</i> 393 <i>Measurement Lab</i> 385, 392 <i>Mini Lab</i> 373, 380, 386 <i>Practice and Problem Solving</i> 376-378, 383-384, 390-391, 395-396 <i>Spiral Review</i> 404 #26, 421 #68-#71, 426 #52 <i>Study Guide and Review</i> 407 7-5, 7-6, 408 7-7, 7-8 <i>Test Practice</i> 378, 391, 396</p> <p>Teacher Edition: AE 374, 375, 381, 383, 386; CB 380a; EC 393a; KL 373a; MRS 380a; T 373; PA 381</p>
<p>MA 8.2.5.c Apply the Pythagorean theorem to find missing lengths in right triangles and to solve problems</p>	<p>Student Edition: 162, 164 <i>Check Your Understanding</i> 164, 169 <i>Example</i> 163-164, 167-168, 175 <i>Get Ready</i> 167 <i>Geometry Lab</i> 161 <i>Mini Lab</i> 162 <i>Practice and Problem Solving</i> 165-166, 169-171, 177 342 <i>Practice Test</i> 183 #12-#22 <i>Spiral Review</i> 171 <i>Study Guide and Review</i> 181 3-5, 182 3-6 <i>Test Practice</i> 166, 171, 178 #43</p> <p>Teacher Edition: AE 163, 164, 168; EL 167a; PA 163, 168; T 167; TT 164; VL 162a</p>
<p>MA 8.2.5.d Use scale factors to find missing lengths in similar shapes</p>	<p>Student Edition: 219, 220, 399 <i>Check Your Understanding</i> 222 #3 <i>Example</i> 220 <i>Practice and Problem Solving</i> 222 #9-#12, 223 #15, 230 #25 <i>Spiral Review</i> 230 #29 <i>Study Tip</i> 220</p> <p>Teacher Edition: AE 220; FM 219; RC 399a</p>

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MA 8.2.5.e Convert between metric and standard units of measurement, given conversion factors (e.g., meters to yards)	Student Edition: <i>Concepts and Skills Bank</i> 744-745
MA 8.3 Students will communicate algebraic concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.	
MA 8.3.1 Relationships: Students will represent and analyze relationships using algebraic symbols.	
MA 8.3.1.a Represent and analyze a variety of patterns with tables, graphs, words, and algebraic equations	Student Edition: 464 <i>Analyze The Strategy</i> 124 <i>Check Your understanding</i> 466 <i>Example</i> 464-465, 470 <i>Get Ready</i> 271, 469 <i>Mini Lab</i> 464 <i>Practice and Problem Solving</i> 27 #5, 33 #39-#40, 129 #42, 467-468, 472 #24 <i>P.S.I. Team</i> 124 <i>Test Practice</i> 61 #30, 331, 473 Teacher Edition: AE 465, 466, 470; ODI 469a; OS 124a; PA 168
MA 8.3.1.b Describe relationships using algebraic expressions, equations, and inequalities (e.g., two-step, one variable)	Student Edition: 416, 422, 434, 441, 445, 449-450 <i>Algebra Lab</i> 432-433 <i>Check Your Understanding</i> 419, 424, 429, 436, 443, 447 <i>Example</i> 416-418, 422-424, 427-428, 434-435, 442, 449-450 <i>Get Ready</i> 422, 427, 434, 441, 445, 449 <i>Mini Lab</i> 416 <i>Practice and Problem Solving</i> 419-420, 425-426, 429-431, 436-437, 443-444, 447-448 <i>Test Practice</i> 421, 426, 437, 448 Teacher Edition: A 421; AE 417, 418, 423, 428, 435, 446, 450, 451; FM 451; PA 428

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MA 8.3.1.c Identify constant slope from tables and graphs	<p>Student Edition: 481, 483, 487 <i>Check Your Understanding</i> 484 <i>Example</i> 481-483, 487-488 <i>Geometry Lab</i> 493 <i>Get Ready</i> 481, 487 <i>Practice and Problem Solving</i> 484-486 <i>Test Practice</i> 486</p> <p>Teacher Edition: AE 482, 483; PA 483; SQ 481; VR 481a</p>
MA 8.3.2 Modeling in Context: Students will create, use, and interpret models of quantitative relationships.	
MA 8.3.2.a Model contextualized problems using various representations (e.g., two-step/one variable equations)	<p>Student Edition: <i>Check Your Understanding</i> 424 #7, #11, 429 #4-#5, 435, 436 #7 <i>Example</i> 418, 428, 446, 451 <i>Get Ready</i> 422, 427, 434, 441, 449 <i>Mini Lab</i> <i>Practice and Problem Solving</i> 419 #40-#43, 420 #44-#45, #54-#57, #61, 425 #24-#25, #32-#33, #40-#41, 429 #10-#14, 430-431, 436 #22-#23, 437 #27, 443 #30-#33, 447 #28-#30 <i>Test Practice</i> 431</p> <p>Teacher Edition: AE 418, 428, 435, 446, 451; PA 418</p>
MA 8.3.2.b Represent a variety of quantitative relationships using algebraic expressions and two-step/one variable equations	<p>Student Edition: <i>Check Your Understanding</i> 424 #7, #11, 429 #4-#5, 435, 436 #7 <i>Example</i> 418, 428, 446, 451 <i>Get Ready</i> 422, 427, 434, 441, 449 <i>Mini Lab</i> <i>Practice and Problem Solving</i> 419 #40-#43, 420 #44-#45, #54-#57, #61, 425 #24-#25, #32-#33, #40-#41, 429 #10-#14, 430-431, 436 #22-#23, 437 #27, 443 #30-#33, 447 #28-#30 <i>Test Practice</i> 431</p> <p>Teacher Edition: AE 418, 428, 435, 446, 451; PA 418</p>

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MA 8.3.3 Procedures: Students will apply properties to solve equations and inequalities.	
<p>MA 8.3.3.a Explain the multiplicative inverse (e.g., $4 \cdot \frac{1}{4} = 1$)</p>	<p>Student Edition: 102-103 <i>Check Your Understanding</i> 105 #1-#3 <i>Example</i> 102-104 <i>Get Ready</i> 119 <i>Key Concept</i> 102 <i>Practice and Problem Solving</i> 105 #13-#18, 106 #43</p> <p>Teacher Edition: AE 103; FM 103; RC 126a</p>
<p>MA 8.3.3.b Evaluate numerical expressions containing whole number exponents (e.g., if $x = 4$, then $(x + 3)^2 + 5x = ?$)</p>	<p>Student Edition: 126-127 <i>Check Your Understanding</i> 128 #4-#9 <i>Example</i> 127 <i>Get Ready</i> 126 <i>Practice and Problem Solving</i> 128 #24-#27, #32-#40 <i>Spiral Review</i> 133 #39 <i>Study Guide and Review</i> 138 2-9</p> <p>Teacher Edition: AE 127; PA 129; RC 126a; T 126</p>
<p>MA 8.3.3.c Solve multi-step equations involving rational numbers</p>	<p>Student Edition: 422 <i>Algebra Lab</i> 432-433 <i>Check Your Understanding</i> 424, 436 <i>Example</i> 422-424, 428, 434-435 <i>Get Ready</i> 422, 427, 434 <i>Practice and Problem Solving</i> 425-426, 429 #10-#14, 430. 436-437 <i>Spiral Review</i> 431 #32-#35 <i>Test Practice</i> 426, 431 #31</p> <p>Teacher Edition: A 426; AE 423, 428, 435; FE 427a; PA 428, 435; T 422; TT 423; UM 422a</p>

STANDARDS	PAGE REFERENCES
MA 8.3.3.d Solve two-step inequalities involving rational numbers	<p>Student Edition: 441 <i>Check Your Understanding</i> 443 #3-#5, 447 #1-#3, 452 #1-#8 <i>Example</i> 442, 446, 449, 451 <i>Get Ready</i> 441 <i>Practice and Problem Solving</i> 443 #16-#21, 447 #6-#23, 452 <i>Test Practice</i> 453</p> <p>Teacher Edition: AE 443, 446; EC 441a</p>
MA 8.3.3.e Identify and explain the properties used in solving two-step inequalities and multi-step equations	<p>Student Edition: 31, 43, 66, 70, 71, 102-103 <i>Check Your Understanding</i> 32 #8-#9 <i>Example</i> 31, 43, 70, 102 <i>Key Concept</i> 43, 66, 70, 71, 102 <i>Practice and Problem Solving</i> 32 #25-#32 <i>Test Practice</i> 34</p> <p>Teacher Edition: AE 31; DI 164; FM 71, 103</p>
<p>MA 8.4 Students will communicate data analysis/probability concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.</p>	
<p>MA 8.4.1 Display and Analysis: Students will formulate questions that can be addressed with data, and then organize, display, and analyze the relevant data to answer their questions.</p>	
MA 8.4.1.a Represent data using circle graphs and box plots with and without the use of technology	<p>Student Edition: 582, 605 <i>Check Your Understanding</i> 585, 607 <i>Concept Summary</i> 618 <i>Example</i> 582-585, 605-607 <i>Get Ready</i> 605, 617 <i>Graphing Calculator Lab</i> 611 <i>Test Practice</i> 214 #35 <i>Practice and Problem Solving</i> 586-587, 608-610 <i>Spreadsheet Lab</i> 589-590 <i>Study Guide and Review</i> 624 <i>Test Practice</i> 588, 621</p> <p>Teacher Edition: A 588; AE 583, 584, 606, 607; CD 617a; GI 605a; T 582; TT 606</p>

STANDARDS	PAGE REFERENCES
MA 8.4.1.b Compare characteristics between sets of data or within a given set of data	<p>Student Edition: 612 <i>Check Your Understanding</i> 619 <i>Example</i> 617-618 <i>Get Ready</i> 617 <i>Graphing Calculator Lab</i> 581 <i>Practice and Problem Solving</i> 619-620 <i>Spreadsheet Lab</i> 589-590, 597 <i>Study Guide and Review</i> 626 11-8 <i>Test Practice</i> 621</p> <p>Teacher Edition: AE 618</p>
MA 8.4.1.c Find, interpret, and compare measures of central tendency (mean, median, mode) and the quartiles for sets of data	<p>Student Edition: 599 <i>Check Your Understanding</i> 594, 601 <i>Concept Summary</i> 591 <i>Example</i> 591-593, 600-601 <i>Get Ready</i> 591, 599 <i>Practice and Problem Solving</i> 594-596, 602-604 <i>Spreadsheet Lab</i> 597 <i>Test Practice</i> 596, 604</p> <p>Teacher Edition: AE 592, 593, 600, 601; CB 591a; PA 593; PS 591a; SQ 591</p>
MA 8.4.1.d Select the most appropriate unit of central tendency for sets of data	<p>Student Edition: <i>Check Your Understanding</i> 594 <i>Concept Summary</i> 591, 593 <i>Example</i> 591-593 <i>Get Ready</i> 591 <i>Practice and Problem Solving</i> 594-596 <i>Spreadsheet Lab</i> 597</p> <p>Teacher Edition: AE 592, 593; CB 591a; FM 592; PS 591a; SQ 591</p>
MA 8.4.1.e Identify misrepresentation and misinterpretation of data represented in circle graphs and box plots	<p>Student Edition: <i>Concepts and Skills Bank</i> 752-753</p> <p>Teacher Edition: AE 609; TT 655</p>

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MA 8.4.2 Predictions and Inferences: Students will evaluate predictions and make inferences based on data.	
MA 8.4.2.a Evaluate predictions to formulate new questions and plan new studies	<p>Student Edition: 653-654 <i>Check Your Understanding</i> 655 <i>Concept Summary</i> 653, 654 <i>Example</i> 654-655 <i>Get Ready</i> 653 <i>Practice and Problem Solving</i> 656-657 <i>Study Guide and Review</i> 662 12-5 <i>Test Practice</i> 658</p> <p>Teacher Edition: AE 655; T 653</p>
MA 8.4.2.b Compare and contrast two sets of data to make inferences	<p>Student Edition: 653-654 <i>Check Your Understanding</i> 655 <i>Concept Summary</i> 653, 654 <i>Example</i> 654-655 <i>Get Ready</i> 653 <i>Practice and Problem Solving</i> 656-657 <i>Probability Lab</i> 648-649 #6-#7 <i>Study Guide and Review</i> 662 12-5 <i>Test Practice</i> 658</p> <p>Teacher Edition: AE 655; T 653</p>
MA 8.4.3 Probability: Students will apply and interpret basic concepts of probability.	
MA 8.4.3.a Identify complementary events and calculate their probabilities	<p>Student Edition: <i>Example</i> 643 <i>Mini Lab</i> 643 <i>Practice and Problem Solving</i> 646 #19 <i>Test Practice</i> 647 #24</p> <p>Teacher Edition: RC 637a</p>

STANDARDS	PAGE REFERENCES
MA 8.4.3.b Compute probabilities for independent compound events	<p>Student Edition: 637 <i>Check Your Understanding</i> 639, 645-646 <i>Example</i> 637, 643-644 <i>Get Ready</i> 637 <i>Mini Lab</i> 643 <i>Practice and Problem Solving</i> 640-642, 646 <i>Probability Lab</i> 648-649 <i>Study Guide and Review</i> 660 12-2, 661 <i>Test Practice</i> 642, 646</p> <p>Teacher Edition: AE 638, 639, 644; PA 639; T 637</p>