



# Pre-Algebra

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STANDARDS	PAGE REFERENCES
<p><b>Process Standard A: Students will develop their ability to solve problems by engaging in developmentally appropriate opportunities where there is a need to use various approaches to investigate and understand mathematical concepts in order to:</b></p>	
<ul style="list-style-type: none"> <li>• Formulate their own problems</li> <li>• Find solutions to problems from everyday situations</li> <li>• Develop and apply strategies to solve a variety of problems</li> <li>• Integrate mathematical reasoning, communication and connections</li> </ul>	
<ul style="list-style-type: none"> <li>• Generalize solutions and apply previous knowledge to new problem solving situations</li> </ul>	<p><b>Student Edition:</b> 26-30, 70, 207 #52, 296 #49 <i>Cross-Curricular Project</i> 23, 177 <i>Smart Start</i> 6, 7</p> <p><b>Teacher Wraparound Edition:</b> FMC 27; PAP 83</p>
<ul style="list-style-type: none"> <li>• Determine an efficient strategy, verify, interpret, and evaluate the results with respect to the original problem</li> </ul>	<p><b>Student Edition:</b> 26-30, 53 #33, 70, 97 #60 <i>Cross-Curricular Project</i> 23, 177 <i>Graphing Calculator Lab</i> 67-68 <i>Smart Start</i> 2-13</p> <p><b>Teacher Wraparound Edition:</b> FMC 27</p>

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<ul style="list-style-type: none"> <li>Apply problem solving strategies until a solution is found or it is clear that no solution exists</li> </ul>	<p><b>Student Edition:</b>  26-30, 53 #33, 70, 97 #60, 207 #52  <i>Cross-Curricular Project</i> 23, 177  <i>Smart Start</i> 2-13</p> <p><b>Teacher Wraparound Edition:</b>  FMC 27</p>
<ul style="list-style-type: none"> <li>Interpret and solve a variety of mathematical problems by paraphrasing</li> </ul>	<p><b>Student Edition:</b>  35 #38-#39, #47, 296 #49  <i>Cross-Curricular Project</i> 177  <i>Smart Start</i> 6, 7</p> <p><b>Teacher Wraparound Edition:</b>  AE 34</p>
<ul style="list-style-type: none"> <li>Identify necessary and extraneous information</li> </ul>	<p><b>Student Edition:</b>  26-30, 207 #52  <i>Cross-Curricular Project</i> 23, 177  <i>Standardized Test Practice</i> 120 #7, 175 #13</p> <p><b>Teacher Wraparound Edition:</b>  FMC 24E</p>
<ul style="list-style-type: none"> <li>Check the reasonableness of a solution</li> </ul>	<p><b>Student Edition:</b>  26-30, 89 #41, 296 #49, 405 #8  <i>Cross-Curricular Project</i> 23, 177  <i>Standardized Test Practice</i> 74 #2, 175 #14  <i>Study Tip</i> 322</p> <p><b>Teacher Wraparound Edition:</b>  FMC 24E, 27</p>
<ul style="list-style-type: none"> <li>Apply technology as a tool in problem solving situations</li> </ul>	<p><b>Student Edition:</b>  26-30, 184 #66, 655 #18  <i>Cross-Curricular Project</i> 23, 177  <i>Graphing Calculator Lab</i> 67-68, 632  <i>Smart Start</i> 10-11, 12-13</p> <p><b>Teacher Wraparound Edition:</b>  FMC 24E</p>

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<p><b>Process Standard B: Students will develop their ability to communicate mathematically by solving problems where there is a need to obtain information from the real world through reading, listening, and observing in order to:</b></p>	
<ul style="list-style-type: none"> <li>• Translate information into mathematical language and symbols</li> <li>• Process information mathematically</li> <li>• Present results in written, oral, and visual formats</li> <li>• Discuss and exchange ideas about mathematics as a part of learning</li> <li>• Read a variety of fiction and nonfiction texts to learn about mathematics</li> <li>• Use mathematical notation to communicate and explain problems</li> </ul>	
<ul style="list-style-type: none"> <li>• Use formulas, algorithms, inquiry, and other techniques to solve mathematical problems</li> </ul>	<p><b>Student Edition:</b>            26-30, 70, 96 #48, #49, 109 #30, #31, #33,            162-167, 363 #37, 423 #37, 473 #52, #53, 481 #62  <i>Algebra Lab</i> 273, 307  <i>Cross-Curricular Project</i> 23, 177, 459  <i>Spreadsheet Lab</i> 168  <i>Standardized Test Practice</i> 287 #10</p> <p><b>Teacher Wraparound Edition:</b>            A 30; AA 119, 353; DI 235; FFU 53; FMC 164;            PC 178H, 226H, 572H</p>
<ul style="list-style-type: none"> <li>• Evaluate written and oral presentations in mathematics</li> </ul>	<p><b>Student Edition:</b>            32, 35 #49, 36 #52, 51 #8-#9, 213 #75, #76,            363 #37, 655 #19  <i>Algebra Lab</i> 273  <i>Cross-Curricular Project</i> 23, 177, 459  <i>Standardized Test Practice</i> 75 #13  <i>Study Tip</i> 196</p> <p><b>Teacher Wraparound Edition:</b>            AA 285, 455; DI 181; FMC 33</p>
<ul style="list-style-type: none"> <li>• Identify and translate key words and phrases that imply mathematical operations</li> </ul>	<p><b>Student Edition:</b>            51 #8-#9, 162-167  <i>Algebra Lab</i> 273, 383  <i>Cross-Curricular Project</i> 23, 177, 459  <i>Glossary</i> R1-R22  <i>Reading Math</i> 31, 91, 152, 301, 429, 614</p> <p><b>Teacher Wraparound Edition:</b>            AA 119, 285, 455; DI 210, 436</p>

STANDARDS	PAGE REFERENCES
<ul style="list-style-type: none"> <li>Model and explain mathematical relationships using oral, written, graphic, and algebraic methods</li> </ul>	<p><b>Student Edition:</b>            51 #8-#9, 58 #49-#53, 83 #75, 190 #55-#57, 213 #76, 249 #54, 308-312  <i>Algebra Lab</i> 134-135  <i>Cross-Curricular Project</i> 23, 177, 459  <i>Geometry Lab</i> 582, 596  <i>Graphing Calculator Lab</i> 62  <i>Standardized Test Practice</i> 121 #12</p> <p><b>Teacher Wraparound Edition:</b>            A 99; AE 51; DI 235; PC 290H, 572H; RC 246</p>
<ul style="list-style-type: none"> <li>Use everyday language, both orally and in writing, to communicate strategies and solutions to mathematical problems</li> </ul>	<p><b>Student Edition:</b>            26-30, 47 #52, 70, 83 #75, 308-311, 445 #48  <i>Cross-Curricular Project</i> 23, 177, 459  <i>Reading Math</i> 31, 91, 152, 301</p> <p><b>Teacher Wraparound Edition:</b>            AA 119, 285, 455, 507; DI 436; I 142; PAP 83</p>
<p><b>Process Standard C:</b> Students will develop their ability to reason mathematically by solving problems where there is a need to investigate mathematical ideas and construct their own learning in all content areas in order to:</p>	
<ul style="list-style-type: none"> <li>Reinforce and extend their logical reasoning abilities</li> <li>Reflect on, clarify, and justify their thinking</li> <li>Ask questions to extend their thinking</li> <li>Use patterns and relationships to analyze mathematical situations</li> <li>Determine relevant, irrelevant, and/or sufficient information to solve mathematical problems</li> </ul>	
<ul style="list-style-type: none"> <li>Recognize and apply deductive and inductive reasoning</li> </ul>	<p><b>Student Edition:</b>            26-30, 45, 49, 70, 77 #6-#8, 94, 101, 133, 158-161, 203  <i>Standardized Test Practice</i> 75 #7, 174 #4</p> <p><b>Teacher Wraparound Edition:</b>            AE 159; FMC 24E</p>
<ul style="list-style-type: none"> <li>Review and refine the assumptions and steps used to derive conclusions in mathematical arguments</li> </ul>	<p><b>Student Edition:</b>            62 #2, 218 #45, 240 #53, 271 #43, 555 #29, 587 #33  <i>Graphing Calculator Lab</i> 68 #9  <i>Standardized Test Practice</i> 75 #13, 175 #14</p>

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<ul style="list-style-type: none"> <li>Justify answers and the steps taken to solve problems with and without manipulatives and physical models</li> </ul>	<p><b>Student Edition:</b>            53 #33, 77 #60, 103 #58, 104 #60, 140 #40, 233 #60, 277 #4, 296 #49, 428 #39, 655 #18, 661 #2  <i>Algebra Lab</i> 273, 383  <i>Spreadsheet Lab</i> 168 #2, 657  <i>Standardized Test Practice</i> 509 #13</p> <p><b>Teacher Wraparound Edition:</b>            PC 178H</p>
<p><b>Process Standard D:</b> Students will develop the ability to make mathematical connections by solving problems where there is a need to view mathematics as an integrated whole in order to:</p> <ul style="list-style-type: none"> <li>Link new concepts to prior knowledge</li> <li>Identify relationships between content strands</li> <li>Integrate mathematics with other disciplines</li> <li>Allow the flexibility to approach problems in a variety of ways within and beyond the field of mathematics</li> </ul>	
<ul style="list-style-type: none"> <li>Use mathematical ideas from one area of mathematics to explain an idea from another area of mathematics</li> </ul>	<p><b>Student Edition:</b>            111-115, 158-161, 205 #10, 211 #35, #36, 295 #39, #40, 300 #22, 308-312, 471 #4  <i>Algebra Lab</i> 185  <i>Cross-Curricular Project</i> 23, 459, 623  <i>Geometry Lab</i> 544  <i>Real-World Link</i> 88, 192</p> <p><b>Teacher Wraparound Edition:</b>            AA 285, 507; DI 465; PAP 157; TT 23</p>
<ul style="list-style-type: none"> <li>Use manipulatives and physical models to explain the relationships between concepts and procedures</li> </ul>	<p><b>Student Edition:</b>            41 #49, 59 #57, 115 #58, 190 #55-#57, 213 #76, 514  <i>Algebra Lab</i> 60, 99, 262, 320-321  <i>Standardized Test Practice</i> 75 #13</p> <p><b>Teacher Wraparound Edition:</b>            DI 215, 235, 241, 251; FMC 62; PAP 296; PC 510H</p>
<ul style="list-style-type: none"> <li>Use the connections among mathematical topics to develop multiple approaches to problems</li> </ul>	<p><b>Student Edition:</b>            26-30, 115 #58, 139 #30, 331 #43, 644-649  <i>Graphing Calculator Lab</i> 650  <i>Spreadsheet Lab</i> 657</p> <p><b>Teacher Wraparound Edition:</b>            DI 44</p>

STANDARDS	PAGE REFERENCES
<ul style="list-style-type: none"> <li>Apply mathematical thinking and modeling to solve problems that arise in other disciplines, such as rhythm in music and motion in science</li> </ul>	<p><b>Student Edition:</b> 63 #3, 131 #3, 167 #42, 199 #33-#35, 205 #10, 230 #4, 308-312, 565 #16 <i>Algebra Lab</i> 185 <i>Cross-Curricular Project</i> 177, 459, 623 <i>Real-World Link</i> 192</p> <p><b>Teacher Wraparound Edition:</b> DI 204</p>
<ul style="list-style-type: none"> <li>Identify, explain, and apply mathematics in everyday life</li> </ul>	<p><b>Student Edition:</b> 35 #47, 144 #43, 167 #42, 211 #35, #36, 213 #76, 230 #4, 305, 308-312, 333-335, 520 #3, 565 #16 <i>Cross-Curricular Project</i> 23, 177, 459, 623 <i>Real-World Link</i> 192 <i>Spreadsheet Lab</i> 337 <i>Standardized Test Practice</i> 508 #4</p> <p><b>Teacher Wraparound Edition:</b> AA 507; DI 309; PAP 157, 296</p>
<b>Grade 8</b>	
<b>1.0 Numbers, Number Sense, and Computation</b>	
<p><b>Content Standard 1.0</b> Students will accurately calculate and use estimation techniques, number relationships, operation rules, and algorithms; they will determine the reasonableness of answers and the accuracy of solutions to solve problems, communicate, reason, and make connections within and beyond the field of mathematics.</p> <p><b>At a minimum, students will maintain previous skills and attain the following:</b></p>	
<p>1.8.1 Represent numbers using scientific notation in mathematical and practical situations.</p>	<p><b>Student Edition:</b> 214-218, 222, 318 #73, 363 #40, 797 #10, #11 <i>Practice Test</i> 223 <i>Standardized Test Practice</i> 224 #2, #5, 225 #12, 286 #5, 287 #11, 355 #8, #11</p> <p><b>Teacher Wraparound Edition:</b> AE 215; DI 215</p>
<p>1.8.2 Translate among fractions, decimals, and percents, including percents greater than 100 and percents less than 1.</p>	<p><b>Student Edition:</b> 228-233, 234-238, 282, 313-318, 326, 327, 329, 350, 351, 770-774 <i>Algebra Lab</i> 320-321 <i>Mid-Chapter Quiz</i> 256 #7-#10, 319 #15 <i>Practice Test</i> 285 #1-#6, 353 #6-#11</p> <p><b>Teacher Wraparound Edition:</b> AE 219, 235; DI 229; FMC 231, 323; PC 290H</p>

STANDARDS	PAGE REFERENCES
<p>Explain and use the relationship among equivalent representations of rational numbers in mathematical and practical situations.</p>	<p><b>Student Edition:</b>            292-296, 297-300, 313-318, 338-342, 349, 350, 351, 352, 799  <i>Mid-Chapter Quiz</i> 319 #15  <i>Practice Test</i> 353  <i>Spreadsheet Lab</i> 337</p> <p><b>Teacher Wraparound Edition:</b>            A 318; AE 293</p>
<p>1.8.3            Compare and order real numbers, including powers of whole numbers in mathematical and practical situations.</p>	<p><b>Student Edition:</b>            78-79, 81, 180-184, 205 #10, 216, 230, 237 #42-#49, 258 #4, 272 #55-#58, 292-296, 302-306, 315 #6, 332-336, 338-342, 371-375, 376-381, 384-389, 465-468, 469-474, 742, 797  <i>Mid-Chapter Quiz</i> 98 #6, #7  <i>Practice Test</i> 119, 223  <i>Reading Math</i> 301, 315  <i>Spreadsheet Lab</i> 337  <i>Standardized Test Practice</i> 354, 419 #9</p> <p><b>Teacher Wraparound Edition:</b>            AE 79; COI 79; CON 216; DI 229; FMC 216, 231</p>
<p>1.8.5            Identify perfect squares to 225 and their corresponding square roots.</p>	<p><b>Student Edition:</b>            464-468, 482 #1, 587 #26-#28  <i>Algebra Lab</i> 462-463  <i>Standardized Test Practice</i> 508 #3  <i>Study Tip</i> 583</p> <p><b>Teacher Wraparound Edition:</b>            AE 465; PC 460H</p>
<p>1.8.6            Use estimation strategies to determine the reasonableness of an answer in mathematical and practical situations.</p>	<p><b>Student Edition:</b>            28 #3, 41 #58, 47 #60, 88 #5, 89 #41, 154 #3, 166 #37, #38, 215 #3, 217 #36, 237 #49, 265 #4, 304 #3, 331 #43, 401, 405, 467 #29, #30, 486 #3, 794 #2, 802 #2, 804 #4  <i>Algebra Lab</i> 307  <i>Mid-Chapter Quiz</i> 48 #3  <i>Practice Test</i> 173 #21  <i>Standardized Test Practice</i> 120 #4, 224 #9</p> <p><b>Teacher Wraparound Edition:</b>            AE 215; DI 328; FMC 27</p>

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<p>1.8.7 Calculate with real numbers to solve mathematical and practical situations.</p>	<p><b>Student Edition:</b> 239-244, 245-249, 250-254, 263-267, 322-326, 327-331, 332-336, 350-351, 469-474, 504, 552 #2, 799, 802 <i>Algebra Lab</i> 320-321 <i>Practice Test</i> 353 <i>Standardized Test Practice</i> 286 #2, 456 #8, 621 #8, 697 #11</p> <p><b>Teacher Wraparound Edition:</b> AE 323, 333; DI 241</p>
<p>Use order of operations to solve equations in the real number system.</p>	<p><b>Student Edition:</b> 213 #70, 420-423, 452, 802 #2, #3 <i>Standardized Test Practice</i> 286 #1</p> <p><b>Teacher Wraparound Edition:</b> AA 119; AE 421; DI 204</p>
<p>1.8.8 Identify and apply the identity property, inverse property, and the absolute value of real numbers to solve problems.</p>	<p><b>Student Edition:</b> 44, 71, 78-80, 88, 97 #65, 117, 130 #2, 136-140, 245-249, 283, 420-423, 424-428, 464-468, 711, 719 #33 <i>Algebra Lab</i> 85 #12, 462-463 <i>Mid-Chapter Quiz</i> 482 #1, #11-#14 <i>Practice Test</i> 285, 455</p> <p><b>Teacher Wraparound Edition:</b> AA 173; AV 80; FMC 24F, 94, 137, 247, 259; PAP 244; PC 24H, 122H</p>
<p><b>2.0 Patterns, Functions, and Algebra</b></p>	
<p><b>Content Standard 2.0</b> Students will use various algebraic methods to analyze, illustrate, extend, and create numerous representations (words, numbers, tables, and graphs) of patterns, functions, and algebraic relations as modeled in practical situations to solve problems, communicate, reason, and make connections within and beyond the field of mathematics.</p> <p><b>At a minimum, students will maintain previous skills and attain the following:</b></p>	
<p>2.8.1 Find the missing term in a numerical sequence or a pictorial representation of a sequence.</p>	<p><b>Student Edition:</b> 26-30, 36, 53 #47, 70, 77, 157 #43-#45, 158-161, 167 #45, #46, 172, 184 #71, 357 <i>Mid-Chapter Quiz</i> 48 #1 <i>Practice Test</i> 173 #23 <i>Standardized Test Practice</i> 174 #4, 415 #11, 456 #4, 737 #9</p> <p><b>Teacher Wraparound Edition:</b> AE 159</p>

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<p>2.8.2</p> <p>Evaluate formulas and algebraic expressions using rational numbers (with and without technology).</p>	<p><b>Student Edition:</b>  37-41, 47 #55-#58, 51 #8-#9, 53 #48-#51, 59 #63-#66, 66 #38-#40, 71, 95 #4, 96 #48, #49, 102 #4, 103, 108, 109, 157 #39-#42, 162-167, 172, 215 #3, 242 #17, 423 #37</p> <p><i>Mid-Chapter Quiz</i> 48</p> <p><i>Practice Test</i> 73, 119 #24-#27</p> <p><b>Teacher Wraparound Edition:</b>  A 41; AE 163</p>
<p>Solve and graphically represent equations and inequalities in one variable, including absolute value.</p>	<p>See the following pages to cover the first half of the standard.</p> <p><b>Student Edition:</b>  136-140, 141-145, 147-151, 153-157, 171, 420-423, 424-428, 430-434, 435-439, 441-445, 446-450, 452-454</p> <p><i>Algebra Lab</i> 134-135, 418-419</p> <p><i>Mid-Chapter Quiz</i> 146, 440</p> <p><i>Practice Test</i> 173, 413 #4, #5, 455</p> <p><i>Standardized Test Practice</i> 457</p> <p><b>Teacher Wraparound Edition:</b>  AE 432, 436, 447; FMC 432</p> <p>Also see Glencoe's <i>Algebra 1</i> © 2008 to include absolute value.</p>
<p>2.8.3</p> <p>Add and subtract binomials.</p>	<p><b>Student Edition:</b>  706-709, 710-713, 719 #38-#41, 725 #38-#40, 733</p> <p><i>Mid-Chapter Quiz</i> 714 #7-#9, #14-#17</p> <p><i>Practice Test</i> 735</p> <p><b>Teacher Wraparound Edition:</b>  AE 711; FMC 707, 711</p>
<p>2.8.4</p> <p>Identify, model, describe, and evaluate functions (with and without technology).</p>	<p><b>Student Edition:</b>  359-363, 720-725, 726-730, 800 #7, 806</p> <p><i>Algebra Lab</i> 358</p> <p><i>Cross-Curricular Project</i> 289</p> <p><i>Practice Test</i> 413 #1-#3</p> <p><b>Teacher Wraparound Edition:</b>  AE 360, 361, 721; I 360; PAP 59; PC 356H</p>

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Translate among verbal descriptions, graphic, tabular, and algebraic representations of mathematical situations (with and without technology).	<b>Student Edition:</b> 158-161, 180, 184 #68, 203, 209, 359-363, 365-369, 384-389, 397-401, 409, 410 <i>Practice Test</i> 413 #17-#18 <i>Standardized Test Practice</i> 414-415 <b>Teacher Wraparound Edition:</b> AE 159; FMC 399; PAP 369
2.8.5 Solve linear equations and represent the solution graphically.	<b>Student Edition:</b> 365-369, 375 #17-#19, 381 #24-#26, 409 <b>Teacher Wraparound Edition:</b> AE 367
Solve inequalities and represent the solution on a number line.	<b>Student Edition:</b> 432-434, 435-439, 441-445, 446-450, 453, 454 <i>Mid-Chapter Quiz</i> 440 #25 <i>Practice Test</i> 455 #19-#24 <i>Standardized Test Practice</i> 457 #14 <b>Teacher Wraparound Edition:</b> AE 436, 442, 443
2.8.6 Describe how changes in the value of one variable affect the values of the remaining variables in a relation.	<b>Student Edition:</b> 365-369, 371-375, 376-381, 384-389, 391-394, 409-411 <i>Graphing Calculator Lab</i> 390, 395-396 <i>Practice Test</i> 413 <i>Standardized Test Practice</i> 415
<b>3.0 Measurement</b>	
<b>Content Standard 3.0</b> Students will use appropriate tools and techniques of measurement to determine, estimate, record, and verify direct and indirect measurements to solve problems, communicate, reason, and make connections within and beyond the field of mathematics. <b>At a minimum, students will maintain previous skills and attain the following:</b>	
3.8.1 Estimate and convert unites of measure for mass and capacity within the same measurement system (customary and metric).	<b>Student Edition:</b> 243 #52, 380 #5, #6, 587 #29, #33 <b>Teacher Wraparound Edition:</b> PAP 588
3.8.2 Demonstrate an understanding of precision, error, and tolerance when using appropriate measurement tools.	<b>Student Edition:</b> 210, 211 #34, #35, 236 #4, 244 #76, 517 #44-#48 <i>Reading Math</i> 614 <b>Teacher Wraparound Edition:</b> T 614

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<p>3.8.3 Identify how changes in a dimension of a figure effect changes in its perimeter, area, and volume.</p>	<p><b>Student Edition:</b> 295 #40, 501 #22-#23, 520 #3, 523 #29 <i>Graphing Geometric Relationships</i> 807-808 <i>Practice Test</i> 569 #7, #8 <i>Spreadsheet Lab</i> 563</p>
<p>3.8.4 Calculate percents in monetary problems.</p>	<p><b>Student Edition:</b> 305 #26, #27, 329 #3, #9, 330 #33, #34, 333 #4, 334-335, 339-340 <i>Mid-Chapter Quiz</i> 319 <i>Spreadsheet Lab</i> 337 <i>Standardized Test Practice</i> 415 #7, 508 #4 <b>Teacher Wraparound Edition:</b> AE 334; PAP 319, 331, 342</p>
<p>3.8.5 Apply ratios and proportions to calculate rates and solve mathematical and practical problems using indirect measure.</p>	<p><b>Student Edition:</b> 292-296, 297-300, 302-306, 349, 497-502, 506, 802 <i>Algebra Lab</i> 273, 307 <i>Practice Test</i> 353, 507(16) <i>Standardized Test Practice</i> 354 <b>Teacher Wraparound Edition:</b> AA 507; AE 294, 499; DI 499; FMC 293</p>
<p><b>4.0 Spatial Relationships, Geometry, and Logic</b></p>	
<p><b>Content Standard 4.0</b> Students will identify, represent, verify, and apply spatial relationships and geometric properties to solve problems, communicate, and make connections within and beyond the field of mathematics.</p>	
<p><b>At a minimum, students will maintain previous skills and attain the following:</b></p>	
<p>4.8.1 Find and use the sum of the measures of interior angles of polygons.</p>	<p><b>Student Edition:</b> 512, 540, 541 #5, 556 #44-#46 <b>Teacher Wraparound Edition:</b> FMC 541</p>
<p>4.8.2 Apply the properties of equality and proportionality to congruent or similar shapes.</p>	<p><b>Student Edition:</b> 497-502, 506, 518-523, 608-613 <i>Geometry Lab</i> 607 <i>Practice Test</i> 507 #20 <i>Spreadsheet Lab</i> 563 <b>Teacher Wraparound Edition:</b> AE 519</p>

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<p>4.8.3 Demonstrate dilation using coordinate geometry and models.</p>	<p><b>Student Edition:</b> 524-530 <i>Spreadsheet Lab</i> 563 <i>Standardized Test Practice</i> 736 #4 <b>Teacher Wraparound Edition:</b> AE 527</p>
<p>Describe the relationship between an original figure and its transformation or dilation.</p>	<p><b>Student Edition:</b> 524-530 <i>Standardized Test Practice</i> 736 #4 <b>Teacher Wraparound Edition:</b> AE 527</p>
<p>4.8.5 Calculate slope, midpoint, and distance using equations and formulas (with and without technology).</p>	<p><b>Student Edition:</b> 162, 384-389, 410, 492-496 <i>Algebra Lab</i> 383 <i>Practice Test</i> 413 <b>Teacher Wraparound Edition:</b> AE 385; DI 385, 493; PAP 496</p>
<p>Determine the x- and y-intercepts of a line.</p>	<p><b>Student Edition:</b> 391-394, 397, 400, 411 <i>Practice Test</i> 413 <b>Teacher Wraparound Edition:</b> A 393; AA 413; AE 392, 398; PAP 402</p>
<p>4.8.6 Form generalizations and validate conclusions about geometric figures and their properties.</p>	<p><b>Student Edition:</b> 497-502, 506, 532-536, 539-543, 567 <i>Graphing Geometric Relationships</i> 807-808 <i>Standardized Test Practice</i> 121 #12 <b>Teacher Wraparound Edition:</b> A 481, 536; AA 507, 619; AE 498; FMC 510F, 541; I 498; PAP 502; PC 510H</p>
<p>4.8.7 Verify and explain the Pythagorean Theorem using a variety of methods.</p>	<p><b>Student Edition:</b> 485-490 <i>Algebra Lab</i> 491 <b>Teacher Wraparound Edition:</b> DI 486; FMC 493; PAP 490</p>
<p>Determine the measure of the missing side of a right triangle.</p>	<p><b>Student Edition:</b> 485-490, 505, 508 #1 <b>Teacher Wraparound Edition:</b> PAP 490</p>

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<p>4.8.8 Construct geometric figures using a variety of tools.</p>	<p><b>Student Edition:</b> 517 #44-#48, 535 #25, #26, 577, 578, 579 #17, 597, 598, 602, 603 <i>Geometry Lab</i> 574 <i>Graphing Geometric Relationships</i> 807-808 <b>Teacher Wraparound Edition:</b> A 481; FMC 513</p>
<p>4.8.9 Represent logical relationships using conditional statements.</p>	<p><b>Student Edition:</b> 487 <i>Key Concept</i> 545, 546, 547 <b>Teacher Wraparound Edition:</b> FMC 487</p>
<p><b>5.0 Data Analysis</b></p>	
<p><b>Content Standard 5.0</b> Students will collect, organize, display, interpret, and analyze data to determine statistical relationships and probability projections to solve problems, communicate, reason, and make connections within and beyond the field of mathematics. <b>At a minimum, students will maintain previous skills and attain the following:</b></p>	
<p>5.8.1 Formulate questions and design a study that guides the collection of data.</p>	<p><b>Student Edition:</b> 648 #23, 651-656 <b>Teacher Wraparound Edition:</b> DI 652; FMC 653</p>
<p>Organize, display, and read data including box and whisker plots (with and without technology).</p>	<p><b>Student Edition:</b> 61-66, 213 #75, #76, 403-407, 626-631, 638-642, 644-649, 660 <i>Algebra Lab</i> 60, 273 <i>Cross-Curricular Project</i> 23, 167, 623 <i>Graphing Calculator Lab</i> 67-68, 632, 643 <i>Practice Test</i> 73 #16, 413 #19 <i>Standardized Test Practice</i> 75 #13 <b>Teacher Wraparound Edition:</b> AE 62; DI 652</p>
<p>5.8.2 Select and apply appropriate measures of data distribution, using interquartile range and central tendency.</p>	<p><b>Student Edition:</b> 274-279, 284, 296 #54, 300 #28, #29, 631 #47-#49, 633-637, 638-639 #1, 691, 798 #13, 805 #2 <i>Graphing Calculator Lab</i> 280 <i>Practice Test</i> 285 #25 <i>Standardized Test Practice</i> 286 #6, 287 #13 <b>Teacher Wraparound Edition:</b> AA 285; AE 276, 634, 635; PAP 279</p>

STANDARDS	PAGE REFERENCES
<p>5.8.3 Evaluate statistical arguments that are based on data analysis for accuracy and validity.</p>	<p><b>Student Edition:</b> 61-66, 213 #75-#76, 628-631, 638-642, 644-648, 651-656, 691-693, 805 <i>Graphing Calculator Lab</i> 67-68, 643 <i>Spreadsheet Lab</i> 657 <i>Standardized Test Practice</i> 75 #13 <b>Teacher Wraparound Edition:</b> AE 627; DI 652; FMC 653</p>
<p>5.8.4 Find the number of combinations possible in mathematical and practical situations.</p>	<p><b>Student Edition:</b> 677-680, 687 #39, 694 <b>Teacher Wraparound Edition:</b> UC 678</p>
<p>Distinguish between permutations and combinations.</p>	<p><b>Student Edition:</b> 676-680, 694 <b>Teacher Wraparound Edition:</b> A 680; AE 678</p>
<p>5.8.5 Differentiate between the probability of an event and the odds of an event.</p>	<p><b>Student Edition:</b> 665-669, 670-674, 680 #33, #34, 687 #41, 693, 694 <i>Algebra Lab</i> 675 <b>Teacher Wraparound Edition:</b> A 674; AE 671</p>
<p>5.8.6 Formulate reasonable inferences and predictions through interpolation and extrapolation of data to solve practical problems.</p>	<p>After providing the definition of terms, the following examples could be used to meet this standard. <b>Student Edition:</b> 61-66, 213 #75, #76, 403-407, 626-631, 638-642, 644-649, 660 <i>Algebra Lab</i> 60, 273 <i>Cross-Curricular Project</i> 23, 167, 623 <i>Graphing Calculator Lab</i> 67-68, 632, 643 <i>Practice Test</i> 73 #16, 413 #19 <i>Standardized Test Practice</i> 75 #13 <b>Teacher Wraparound Edition:</b> AE 62; DI 652</p>