



# Pre-Algebra

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STANDARDS		PAGE REFERENCES
<b>GRADES 6-8</b>		
Number & Operation		
Read, write, represent and compare positive rational numbers expressed as fractions, decimals, percents and ratios; write positive integers as products of factors; use these representations in real-world and mathematical situations.		
6.1.1.1		
Locate positive rational numbers on a number line and plot pairs of positive rational numbers on a coordinate grid.	<b>Student Edition:</b> 54-59, 78-83, 87, 111-115, 118, 230-231, 238 #56, 327, 470 <i>Practice Test</i> 73 #11-#13, 119 #29-#32 <i>Standardized Test Practice</i> 75 #12 <b>Teacher Wraparound Edition:</b> AE 55, 79; DI 80; FMC 76E, 226E; PA 83	
6.1.1.2		
Compare positive rational numbers represented in various forms. Use the symbols $<$ and $>$ .	<b>Student Edition:</b> 78, 79, 117, 216, 230-232, 237 #42-#47, 258, 259, 272 #55-#58, 315, 742, 770 <i>Mid-Chapter Quiz</i> 98 #6, #7 <i>Practice Test</i> 119 <i>Standardized Test Practice</i> 415 #9 <b>Teacher Wraparound Edition:</b> COI 79; CON 216; FMC 226E, 231	

STANDARDS	PAGE REFERENCES
<p>6.1.1.3</p> <p>Understand that percent represents parts out of 100 and ratios to 100.</p>	<p><b>Student Edition:</b> 313, 322 <i>Algebra Lab</i> 320-321</p> <p><b>Teacher Wraparound Edition:</b> FMC 323; PC 290H</p>
<p>6.1.1.4</p> <p>Determine equivalences among fractions, decimals and percents; select among these representations to solve problems.</p>	<p><b>Student Edition:</b> 228-233, 234-238, 282, 313-318, 326, 327, 350, 770, 774 <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; PC 290H</p>
<p>6.1.1.5</p> <p>Factor whole numbers; express a whole number as a product of prime factors with exponents.</p>	<p><b>Student Edition:</b> 186-190, 200 #49-#52, 220, 257, 740-741 <i>Mid-Chapter Quiz</i> 202 #5-#7</p> <p><b>Teacher Wraparound Edition:</b> AE 187</p>
<p>6.1.1.6</p> <p>Determine greatest common factors and least common multiples. Use common factors and common multiples to do arithmetic with fractions and find equivalent fractions.</p>	<p><b>Student Edition:</b> 191-195, 221, 227, 257-261, 267 #46-#49, 283 <i>Algebra Lab</i> 262 <i>Mid-Chapter Quiz</i> 202 #5-#7 <i>Reading Math</i> 255</p> <p><b>Teacher Wraparound Edition:</b> AE 192, 258; TNT 197</p>
<p>6.1.1.7</p> <p>Convert between equivalent representations of positive rational numbers.</p>	<p><b>Student Edition:</b> 228-233, 234-238, 282, 313-318, 326, 327, 350, 770, 774 <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; PC 290H</p>

STANDARDS	PAGE REFERENCES
<p>Understand the concept of ratio and its relationship to fractions and to the multiplication and division of whole numbers. Use ratios to solve real-world and mathematical problems.</p>	
<p>6.1.2.1</p>	
<p>Identify and use ratios to compare quantities; understand that comparing quantities using ratios is not the same as comparing quantities using subtraction.</p>	<p><b>Student Edition:</b> 292-296, 312 #20, #21, 349 <i>Mid-Chapter Quiz</i> 319 <i>Reading Math</i> 301</p> <p><b>Teacher Wraparound Edition:</b> A 301; AE 294; T 301</p>
<p>6.1.2.2</p>	
<p>Apply the relationship between ratios, equivalent fractions and percents to solve problems in various contexts, including those involving mixtures and concentrations.</p>	<p><b>Student Edition:</b> 292-296, 297-300, 313-318, 349, 350 <i>Mid-Chapter Quiz</i> 319 #15 <i>Practice Test</i> 353</p> <p><b>Teacher Wraparound Edition:</b> A 318; AE 293</p>
<p>6.1.2.3</p>	
<p>Determine the rate for ratios of quantities with different units</p>	<p><b>Student Edition:</b> 292-296, 306 #42, #43, 349, 799 #1 <i>Mid-Chapter Quiz</i> 319 <i>Practice Test</i> 353</p> <p><b>Teacher Wraparound Edition:</b> AE 294; FMC 293; PAP 296</p>
<p>6.1.2.4</p>	
<p>Use reasoning about multiplication and division to solve ratio and rate problems.</p>	<p><b>Student Edition:</b> 241 #6, 292-296, 297-300, 302-306, 309, 312 #20, #21, 334 #5, 335 #24 <i>Mid-Chapter Quiz</i> 319</p> <p><b>Teacher Wraparound Edition:</b> AE 298, 303; FMC 241</p>

STANDARDS	PAGE REFERENCES
<p>Multiply and divide decimals, fractions and mixed numbers; solve real-world and mathematical problems using arithmetic with positive rational numbers</p>	
<p>6.1.3.1</p>	
<p>Multiply and divide decimals and fractions, using efficient and generalizable procedures, including standard algorithms.</p>	<p><b>Student Edition:</b>            239-244, 245-249, 282, 283, 747-750, 752  <i>Mid-Chapter Quiz</i> 256  <i>Practice Test</i> 285  <i>Spreadsheet Lab</i> 337  <i>Standardized Test Practice</i> 121 #11, 174 #5, 286 #1  <b>Teacher Wraparound Edition:</b>            AE 240; DI 241; PAP 244; PC 226H</p>
<p>6.1.3.2</p>	
<p>Use the meanings of fractions, multiplication, division and the inverse relationship between multiplication and division to make sense of procedures for multiplying and dividing fractions.</p>	<p><b>Student Edition:</b>            239-244, 245-249, 254 #59-#66, 268-272, 282, 283  <i>Mid-Chapter Quiz</i> 256 #13-#16  <i>Practice Test</i> 285 #8-#11  <b>Teacher Wraparound Edition:</b>            AE 246; FMC 241, 247; PAP 244; TNT 269</p>
<p>6.1.3.3</p>	
<p>Calculate the percent of a number and determine what percent one number is of another number to solve problems in various contexts.</p>	<p><b>Student Edition:</b>            322-326, 327-331, 332-336, 350, 351, 775, 799  <i>Algebra Lab</i> 320-321  <i>Practice Test</i> 353  <b>Teacher Wraparound Edition:</b>            AE 323, 333</p>
<p>6.1.3.4</p>	
<p>Solve real-world and mathematical problems requiring arithmetic with decimals, fractions and mixed numbers.</p>	<p><b>Student Edition:</b>            230 #4, 240 #4, 241 #6, 247 #5, 253 #41, 282-284  <i>Cross-Curricular Project</i> 177  <i>Mid-Chapter Quiz</i> 256  <b>Teacher Wraparound Edition:</b>            AE 240, 247; PAP 254</p>

STANDARDS	PAGE REFERENCES
<p>6.1.3.5</p> <p>Estimate solutions to problems with whole numbers, fractions and decimals and use the estimations to assess the reasonableness of computations and of results in the context of the problem.</p>	<p><b>Student Edition:</b>  28 #3, 36 #61-#63, 41 #58, 47 #60, 88 #5, 89 #41, 154 #3, 166 #37, #38, 215 #3, 265 #4, 405 #7-#9, 467 #29, #30, 794 #2  <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>
<p>Algebra</p>	
<p>Recognize and represent relationships between varying quantities; translate from one representation to another; use patterns, tables, graphs and rules to solve real-world and mathematical problems.</p>	
<p>6.2.1.1</p> <p>Understand that a variable can be used to represent a quantity that can change, often in relationship to another changing quantity. Use variables in various contexts.</p>	<p><b>Student Edition:</b>  37-41, 49-53, 71 #22-#27, 109 #30, #31, #33, 130 #3, 138 #4, 142 #2, 162-167, 198 #4, 206 #45-#48, 470-471 #4, 474 #59, 485 #1, 492-496  <i>Mid-Chapter Quiz</i> 146 #8, #15  <i>Practice Test</i> 173 #21, #22  <i>Reading Math</i> 153  <i>Spreadsheet Lab</i> 168  <i>Standardized Test Practice</i> 286 #1</p> <p><b>Teacher Wraparound Edition:</b>  A 167; AA 73; AE 51, 131, 148, 163;  FMC 24E, 24F, 38, 164, 493; PA 41, 53, 110, 356H</p>
<p>6.2.1.2</p> <p>Represent the relationship between two varying quantities with function rules, graphs and tables; translate between any two of these representations.</p>	<p><b>Student Edition:</b>  56 #4, 103 #56, 158-161, 359-363, 365-369, 409, 800  <i>Algebra Lab</i> 358  <i>Graphing Calculator Lab</i> 68, 364  <i>Practice Test</i> 73 #10, 173 #23  <i>Reading Math</i> 370  <i>Standardized Test Practice</i> 74 #3, 175 #9, 224 #8, 414 #1, 456 #4</p> <p><b>Teacher Wraparound Edition:</b>  AE 159, 360-361; PA 59, 369</p>

STANDARDS	PAGE REFERENCES
<p>Use properties of arithmetic to generate equivalent numerical expressions and evaluate expressions involving positive rational numbers.</p>	
<p>6.2.2.1</p>	
<p>Apply the associative, commutative and distributive properties and order of operations to generate equivalent expressions and to solve problems involving positive rational numbers.</p>	<p><b>Student Edition:</b>            32-36, 43-47, 71 #28-#34, 88 #6, 90 #50-#51, 102 #4, 124-128, 130 #2, 155 #4, 170, 181, 424-428, 716 #1, 762  <i>Algebra Lab</i> 85  <i>Mid-Chapter Quiz</i> 48 #5-#10  <i>Practice Test</i> 73 #5-#7  <i>Standardized Test Practice</i> 75 #9, 286 #1</p> <p><b>Teacher Wraparound Edition:</b>            A 41; AA 119; AE 44, 125, 126; DI 425;            FMC 24E, 24F, 33, 45, 126; PA 30, 128</p>
<p>Understand and interpret equations and inequalities involving variables and positive rational numbers. Use equations and inequalities to represent real-world and mathematical problems; use the idea of maintaining equality to solve equations. Interpret solutions in the original context.</p>	
<p>6.2.3.1</p>	
<p>Represent real-world or mathematical situations using equations and inequalities involving variables and positive rational numbers.</p>	<p><b>Student Edition:</b>            51, 52, 138 #4, 142 #2, 144 #43, 148 #2, 150 #47, #48, 153-157, 268-272, 284, 421 #3, 423 #37, 425 #2, 430-434, 438 #35-#37, 445 #48, 453 #29, #30  <i>Algebra Lab</i> 134-135, 418-419  <i>Mid-Chapter Quiz</i> 146 #10, #15, 440 #11  <i>Practice Test</i> 455 #13, #25  <i>Standardized Test Practice</i> 76 #10, 174 #14, 175 #14, 457 #14</p> <p><b>Teacher Wraparound Edition:</b>            AE 51, 138154, 421, 431; DI 154; FF 53; FMC 155; PAP 157</p>
<p>6.2.3.2</p>	
<p>Solve equations involving positive rational numbers using number sense, properties of arithmetic and the idea of maintaining equality on both sides of the equation. Interpret a solution in the original context and assess the reasonableness of results.</p>	<p><b>Student Edition:</b>            49-53, 66 #35, #36, 71, 136-140, 141-145, 147-151, 170, 171, 420-423, 473 #53, 796, 801  <i>Algebra Lab</i> 134-135, 418-419  <i>Mid-Chapter Quiz</i> 146 #16, 440 #8-#10  <i>Practice Test</i> 73 #9  <i>Standardized Test Practice</i> 75 #10, 175 #14</p> <p><b>Teacher Wraparound Edition:</b>            AA 119; AE 50, 138, 142, 148, 421;            FMC 122E, 122F, 137, 148, 155; PA 53; PC 416H</p>

STANDARDS	PAGE REFERENCES
Geometry & Measurement	
Calculate perimeter, area, surface area and volume of two- and three-dimensional figures to solve real-world and mathematical problems.	
6.3.1.1	
<p>Calculate the surface area and volume of prisms and use appropriate units, such as <math>\text{cm}^2</math> and <math>\text{cm}^3</math>. Justify the formulas used. Justification may involve decomposition, nets or other models.</p>	<p><b>Student Edition:</b>            583-588, 594 #43, 597-601, 603, 616, 617, 804  <i>Cross-Curricular Project</i> 459  <i>Geometry Lab</i> 582, 596  <i>Mid-Chapter Quiz</i> 595 #7  <i>Practice Test</i> 619 #9  <i>Standardized Test Practice</i> 621 #11</p> <p><b>Teacher Wraparound Edition:</b>            A 601; AA 619; AE 585, 598; DI 584; FMC 585;            PAP 588; PC 572H</p>
6.3.1.2	
<p>Calculate the area of quadrilaterals. Quadrilaterals include squares, rectangles, rhombuses, parallelograms, trapezoids and kites. When formulas are used, be able to explain why they are valid.</p>	<p><b>Student Edition:</b>            163-167, 172, 184 #63, #64, 238 #67, #68, 272 #60, 317 #55, #56, 545-550, 558-562, 567, 803 #6  <i>Cross-Curricular Project</i> 459  <i>Practice Test</i> 173 #25, 569 #12  <i>Spreadsheet Lab</i> 168, 563  <i>Standardized Test Practice</i> 571 #9</p> <p><b>Teacher Wraparound Edition:</b>            A 167; AE 164, 546, 547; DI 546</p>
6.3.1.3	
<p>Estimate the perimeter and area of irregular figures on a grid when they cannot be decomposed into common figures and use correct units, such as <math>\text{cm}</math> and <math>\text{cm}^2</math>.</p>	<p><b>Student Edition:</b>            581 #35</p> <p><b>Teacher Wraparound Edition:</b>            AA 569</p>
Understand and use relationships between angles in geometric figures.	
6.3.2.1	
<p>Solve problems using the relationships between the angles formed by intersecting lines.</p>	<p><b>Student Edition:</b>            512-517, 565, 687 #42-#47, 783</p> <p><b>Teacher Wraparound Edition:</b>            AE 515; DI 514; FMC 513</p>

STANDARDS	PAGE REFERENCES
6.3.2.2	
<p>Determine missing angle measures in a triangle using the fact that the sum of the interior angles of a triangle is <math>180^\circ</math>. Use models of triangles to illustrate this fact.</p>	<p><b>Student Edition:</b> 476-481, 490 #48-#50, 518-523, 782 <i>Mid-Chapter Quiz</i> 482 #30</p> <p><b>Teacher Wraparound Edition:</b> AE 477</p>
6.3.2.3	
<p>Develop and use formulas for the sums of the interior angles of polygons by decomposing them into triangles.</p>	<p><b>Student Edition:</b> 540, 541, 542 #18-#23</p> <p><b>Teacher Wraparound Edition:</b> FMC 541; TNT 540</p>
<p>Choose appropriate units of measurement and use ratios to convert within measurement systems to solve real-world and mathematical problems.</p>	
6.3.3.1	
<p>Solve problems in various contexts involving conversion of weights, capacities, geometric measurements and times within measurement systems using appropriate units.</p>	<p><b>Student Edition:</b> 30 #24, 39 #11, #12, 51 #8-#9, 103 #54-#55, 162-167, 190 #55-#57, 217 #34-#36, 294 #4, 520 #3, 587 #26-#28</p> <p><i>Cross-Curricular Project</i> 177</p> <p><i>Mid-Chapter Quiz</i> 48 #19, 146 #7</p> <p><b>Teacher Wraparound Edition:</b> AA 507; AE 51; PAP 530, 588</p>
6.3.3.2	
<p>Estimate weights, capacities and geometric measurements using benchmarks in measurement systems with appropriate units.</p>	<p><b>Student Edition:</b> 41 #58, 47 #60, 144 #43, 166 #37, #38, 215 #3, 217 #34-#36, 587 #31</p> <p><i>Cross-Curricular Project</i> 177, 459</p> <p><i>Mid-Chapter Quiz</i> 48 #19</p> <p><b>Teacher Wraparound Edition:</b> AA 507</p>
Data Analysis & Probability	
<p>Use probabilities to solve real-world and mathematical problems; represent probabilities using fractions, decimals and percents</p>	
6.4.1.1	
<p>Determine the sample space (set of possible outcomes) for a given experiment and determine which members of the sample space are related to certain events. Sample space may be determined by the use of tree diagrams, tables or pictorial representations.</p>	<p><b>Student Edition:</b> 666-667, 670-674, 693</p> <p><i>Algebra Lab</i> 273, 307, 675</p> <p><i>Cross-Curriculum Project</i> 23, 167, 623</p> <p><b>Teacher Wraparound Edition:</b> AE 345, 671</p>

STANDARDS	PAGE REFERENCES
<p data-bbox="277 287 362 317">6.4.1.2</p> <p data-bbox="190 338 781 516">Determine the probability of an event using the ratio between the size of the event and the size of the sample space; represent probabilities as percents, fractions and decimals between 0 and 1 inclusive. Understand that probabilities measure likelihood.</p>	<p data-bbox="824 338 1029 367"><b>Student Edition:</b></p> <p data-bbox="824 375 1174 483">666, 667 #4, 671-672, 693 <i>Algebra Lab</i> 307, 675 <i>Cross-Curriculum Project</i> 623</p>
<p data-bbox="277 539 362 569">6.4.1.3</p> <p data-bbox="190 590 781 705">Perform experiments for situations in which the probabilities are known, compare the resulting relative frequencies with the known probabilities; know that there may be differences.</p>	<p data-bbox="824 590 1029 619"><b>Student Edition:</b></p> <p data-bbox="824 627 1068 726">665-669, 670-674 <i>Algebra Lab</i> 675 <i>Practice Test</i> 695 #9</p> <p data-bbox="824 737 1195 806"><b>Teacher Wraparound Edition:</b> AE 667</p>
<p data-bbox="277 827 362 856">6.4.1.4</p> <p data-bbox="190 877 781 1024">Calculate experimental probabilities from experiments; represent them as percents, fractions and decimals between 0 and 1 inclusive. Use experimental probabilities to make predictions when actual probabilities are unknown.</p>	<p data-bbox="824 877 1029 907"><b>Student Edition:</b></p> <p data-bbox="824 915 1162 1014">665-669, 682-687, 805 <i>Algebra Lab</i> 675, 688-689 <i>Graphing Calculator Lab</i> 681</p> <p data-bbox="824 1024 1195 1094"><b>Teacher Wraparound Edition:</b> PAP 669</p>
<p data-bbox="277 1115 521 1144">Number &amp; Operation</p>	
<p data-bbox="277 1167 1336 1224">Read, write, represent and compare positive and negative rational numbers, expressed as integers, fractions and decimals.</p>	
<p data-bbox="277 1247 362 1276">7.1.1.1</p> <p data-bbox="190 1297 781 1476">Know that every rational number can be written as the ratio of two integers or as a terminating or repeating decimal. Recognize that <math>\pi</math> is not rational, but that it can be approximated by rational numbers such as <math>\frac{22}{7}</math> and 3.14.</p>	<p data-bbox="824 1297 1029 1327"><b>Student Edition:</b></p> <p data-bbox="824 1335 1325 1434">106-110, 118, 228-233, 234-238, 245-249, 292-296, 349, 464-468, 469-474 <i>Algebra Lab</i> 462-463</p> <p data-bbox="824 1444 1409 1514"><b>Teacher Wraparound Edition:</b> AE 229, 235, 236, 293, 465; FMC 235, 460E, 465</p>
<p data-bbox="277 1535 362 1564">7.1.1.2</p> <p data-bbox="190 1585 781 1696">Understand that division of two integers will always result in a rational number. Use this information to interpret the decimal result of a division problem when using a calculator.</p>	<p data-bbox="824 1585 1029 1614"><b>Student Edition:</b></p> <p data-bbox="824 1623 1385 1677">106-110, 118, 228, 234-238, 245-249, 292-296, 749-750, 795</p>

STANDARDS	PAGE REFERENCES
<p><b>7.1.1.3</b></p> <p>Locate positive and negative rational numbers on the number line, understand the concept of opposites, and plot pairs of positive and negative rational numbers on a coordinate grid.</p>	<p><b>Student Edition:</b>            54-59, 72, 78-83, 111-115, 118, 230-231, 238 #56, 327, 430-434, 470  <i>Mid-Chapter Quiz</i> 98 #6  <i>Practice Test</i> 73 #11-#13, 119 #29-#32  <i>Standardized test Practice</i> 75 #12, 120 #5</p> <p><b>Teacher Wraparound Edition:</b>            AE 55, 79; DI 80; FMC 76E, 76F, 226E, 432; PAP 83, 428</p>
<p><b>7.1.1.4</b></p> <p>Compare positive and negative rational numbers expressed in various forms using the symbols <math>&lt;</math>, <math>&gt;</math>, <math>\leq</math>, <math>\geq</math>.</p>	<p><b>Student Edition:</b>            78-79, 81, 117, 216, 230-232, 237 #47, 258-259, 315  <i>Mid-Chapter Quiz</i> 98 #2-#5  <i>Practice Test</i> 119  <i>Reading Math</i> 429  <i>Standardized Test Practice</i> 415 #9</p> <p><b>Teacher Wraparound Edition:</b>            AE 79; COI 79; FMC 76E, 416E; TNT 218</p>
<p><b>7.1.1.5</b></p> <p>Recognize and generate equivalent representations of positive and negative rational numbers, including equivalent fractions</p>	<p><b>Student Edition:</b>            214-218, 228-233, 234-238, 313-318, 326, 327, 350, 450 #54, 464-468, 469-474, 482 #1-#4  <i>Mid-Chapter Quiz</i> 256 #7-#10, 319 #15  <i>Practice Test</i> 285 #1-#6, 353 #6-#11  <i>Standardized Test Practice</i> 225 #12, 286 #5, 287 #11</p> <p><b>Teacher Wraparound Edition:</b>            AE 229, 235, 315, 465; FMC 216, 226E, 230, 231; PAP 233</p>

STANDARDS	PAGE REFERENCES
<p>Calculate with positive and negative rational numbers, and rational numbers with whole number exponents, to solve real-world and mathematical problems.</p>	
<p>7.1.2.1</p>	
<p>Add, subtract, multiply and divide positive and negative rational numbers that are integers, fractions and terminating decimals; use efficient and generalizable procedures, including standard algorithms; raise positive rational numbers to whole-number exponents.</p>	<p><b>Student Edition:</b>  26-30, 32, 43-47, 86-90, 93-97, 100-104, 106-110, 181, 203-207, 214-218, 239-244, 245-249, 250-254, 263-267, 282-283, 745, 747-748, 749-750  <i>Algebra Lab</i> 84-85, 92, 99, 105  <i>Cross-Curricular Project</i> 177  <i>Mid-Chapter Quiz</i> 98, 256  <i>Practice Test</i> 119, 223, 285  <i>Standardized test Practice</i> 224-225</p> <p><b>Teacher Wraparound Edition:</b>  AA 119; DI 204; FMC 27, 45, 235; PAP 30, 83; PC 226H</p>
<p>7.1.2.2</p>	
<p>Use real-world contexts and the inverse relationship between addition and subtraction to explain why the procedures of arithmetic with negative rational numbers make sense.</p>	<p><b>Student Edition:</b>  88-89, 94-95, 117, 137 #2, 170 #29  <i>Mid-Chapter Quiz</i> 98  <i>Practice Test</i> 119, 173 #21</p> <p><b>Teacher Wraparound Edition:</b>  AE 94; AA 173; FMC 94, 137; PAP 140; SI 94</p>
<p>7.1.2.3</p>	
<p>Understand that calculators and other computing technologies often truncate or round numbers.</p>	<p><b>Student Edition:</b>  10-13, 184 #66, 215 #3, 228, 235 #3, 465 #2, 471 #3  <i>Algebra Lab</i> 273, 307, 462-463  <i>Cross-Curricular Project</i> 177  <i>Spreadsheet Lab</i> 337</p>

STANDARDS	PAGE REFERENCES
<p><b>7.1.2.4</b></p> <p>Solve problems in various contexts involving calculations with positive and negative rational numbers and positive integer exponents, including computing simple and compound interest.</p>	<p><b>Student Edition:</b>            26-30, 51 #8-#9, 53 #33, 82 #59-#60, 89 #41, 96 #48-#49, 109 #30, #31, 162-167, 205 #4, 215 #3, 240 #4, 247 #5, 253, 334 #5, 335 #23  <i>Algebra Lab</i> 208, 273  <i>Cross-Curricular Project</i> 23, 177  <i>Mid-Chapter Quiz</i> 48 #2, 98 #15, 256 #18  <i>Practice Test</i> 73 #2, 223 #29-#30  <i>Spreadsheet Lab</i> 337  <i>Standardized test Practice</i> 74 #2, 120 #3, 174 #3, 287 #12</p> <p><b>Teacher Wraparound Edition:</b>            AE 27, 101, 215; PAP 66, 104</p>
<p><b>7.1.2.5</b></p> <p>Use proportional reasoning to solve problems involving ratios in various contexts.</p>	<p><b>Student Edition:</b>            302-306, 308-312, 322-326, 349-350, 499  <i>Algebra Lab</i> 307  <i>Mid-Chapter Quiz</i> 319 #2  <i>Practice Test</i> 353  <i>Standardized test Practice</i> 354 #1</p> <p><b>Teacher Wraparound Edition:</b>            AA 507; AE 304, 309, 310, 499; DI 499; FMC 303, 309</p>
<p><b>7.1.2.6</b></p> <p>Demonstrate an understanding of the relationship between the absolute value of a rational number and distance on a number line. Use the symbol for absolute value.</p>	<p><b>Student Edition:</b>            78-83, 97 #65, 117  <i>Mid-Chapter Quiz</i> 98 #1-#6</p> <p><b>Teacher Wraparound Edition:</b>            AE 79; DI 80; PAP 83</p>
<p><b>Algebra</b></p>	
<p>Understand the concept of proportionality in real-world and mathematical situations, and distinguish between proportional and other relationships.</p>	
<p><b>7.2.1.1</b></p> <p>Understand that a relationship between two variables, <math>x</math> and <math>y</math>, is proportional if it can be expressed in the form <math>\frac{y}{x} = k</math> or <math>y = kx</math>. Distinguish proportional relationships from other relationships, including inversely proportional relationships (<math>xy = k</math> or <math>y = \frac{k}{x}</math>).</p>	<p><b>Student Edition:</b>            297-300, 306 #41, 318 #70, #71, 349, 365-369, 371-375, 376-381, 389 #35, 391, 722  <i>Algebra Lab</i> 383  <i>Mid-Chapter Quiz</i> 319 #6-#7, 382 #11, #15</p> <p><b>Teacher Wraparound Edition:</b>            AE 298, 377; FMC 378; PAP 369, 381</p>

STANDARDS	PAGE REFERENCES
<p>7.2.1.2</p> <p>Understand that the graph of a proportional relationship is a line through the origin whose slope is the unit rate (constant of proportionality). Know how to use graphing technology to examine what happens to a line when the unit rate is changed.</p>	<p><b>Student Edition:</b> 297-300, 371-375, 376-381 <i>Graphing Calculator Lab</i> 390 <i>Mid-Chapter Quiz</i> 382</p> <p><b>Teacher Wraparound Edition:</b> AE 377; FMC 378; PA 381</p>
<p>Recognize proportional relationships in real-world and mathematical situations; represent these and other relationships with tables, verbal descriptions, symbols and graphs; solve problems involving proportional relationships and explain results in the original context.</p>	
<p>7.2.2.1</p> <p>Represent proportional relationships with tables, verbal descriptions, symbols, equations and graphs; translate from one representation to another. Determine the unit rate (constant of proportionality or slope) given any of these representations.</p>	<p><b>Student Edition:</b> 297-300, 302-306, 308-312, 322-326, 349-350, 359-363, 371-375, 378 #2, 799, 800 <i>Algebra Lab</i> 307, 358 <i>Mid-Chapter Quiz</i> 319, 382 <i>Practice Test</i> 353 <i>Standardized Test Practice</i> 354 #1</p> <p><b>Teacher Wraparound Edition:</b> AA 413; AE 298, 361; DI 309; FMC 303, 309, 323</p>
<p>7.2.2.2</p>	
<p>Solve multi-step problems involving proportional relationships in numerous contexts.</p>	<p><b>Student Edition:</b> 162, 293-296, 305 #26, #27, #31, 308-312, 322-326, 329 #3, 333, 334, 338-342, 349, 350, 497-502, 506 <i>Algebra Lab</i> 307 <i>Mid-Chapter Quiz</i> 319 #6, #7 <i>Practice Test</i> 353 #5, 507 #20 <i>Standardized Test Practice</i> 354 #1, 508 #1, 571 #10</p> <p><b>Teacher Wraparound Edition:</b> AA 507; AE 309, 498; DI 499</p>
<p>7.2.2.3</p>	
<p>Use knowledge of proportions to assess the reasonableness of solutions.</p>	<p><b>Student Edition:</b> 309 #1, 324 #4, 325 #26, 329 #3 <i>Algebra Lab</i> 307</p>

STANDARDS	PAGE REFERENCES
<p>7.2.2.4</p> <p>Represent real-world or mathematical situations using equations and inequalities involving variables and positive and negative rational numbers.</p>	<p><b>Student Edition:</b>            51 #4, 52 #26-#30, 138 #4, 14, 150 #47, 154-155, 162-167, 271 #42, 332-336, 421-422, 433 #40, #41, 437 #4, 438 #44, 444 #19, 447 #3  <i>Cross-Curricular Project</i> 289  <i>Mid-Chapter Quiz</i> 146 #16, 440 #18  <i>Practice Test</i> 173 #25  <i>Standardized Test Practice</i> 175 #14, 457 #14</p> <p><b>Teacher Wraparound Edition:</b>            AE 154, 431; DI 431</p>
<p>Apply understanding of order of operations and algebraic properties to generate equivalent numerical and algebraic expressions containing positive and negative rational numbers and grouping symbols; evaluate such expressions.</p>	
<p>7.2.3.1</p> <p>Generate equivalent numerical and algebraic expressions containing rational numbers and whole number exponents. Properties of algebra include associative, commutative and distributive laws.</p>	<p><b>Student Edition:</b>            32-36, 37-41, 43-47, 70, 71, 90 #50, #51, 97 #66-#69, 123 #14, 124-128, 129-133, 140 #45-#50, 170, 180-184, 203-207, 209-213  <i>Mid-Chapter Quiz</i> 48, 73, 146  <i>Practice Test</i> 173 #1, 223 #15  <i>Reading Math</i> 32</p> <p><b>Teacher Wraparound Edition:</b>            A 46; AE 38-39, 44, 125, 131, 181, 210; DI 38, 181; PA 41</p>
<p>7.2.3.2</p> <p>Evaluate algebraic expressions containing rational numbers and whole number exponents at specified values of their variables.</p>	<p><b>Student Edition:</b>            37-41, 53 #43-#46, #48-#51, 59 #63-#66, 66 #38-#40, 71, 77 #1-#5, 90 #60-#63, 157 #39-#42  <i>Algebra Lab</i> 42  <i>Mid-Chapter Quiz</i> 48 #13-#18  <i>Practice Test</i> 73 #3-#4, #5-#7  <i>Spreadsheet Lab</i> 42</p> <p><b>Teacher Wraparound Edition:</b>            A 31, 41; AE 38; DI 38</p>

STANDARDS	PAGE REFERENCES
<p>7.2.3.3</p> <p>Apply understanding of order of operations and grouping symbols when using calculators and other technologies.</p>	<p><b>Student Edition:</b>            10-13, 53 #33, 184 #66  <i>Cross-Curricular Project</i> 167, 279  <i>Reading Math</i> 32  <i>Spreadsheet Lab</i> 42, 337</p>
<p>Represent real-world and mathematical situations using equations with variables. Solve equations symbolically, using the properties of equality. Also solve equations graphically and numerically. Interpret solutions in the original context.</p>	
<p>7.2.4.1</p> <p>Represent relationships in various contexts with equations involving variables and positive and negative rational numbers. Use the properties of equality to solve for the value of a variable. Interpret the solution in the original context.</p>	<p><b>Student Edition:</b>            49-53, 71, 109 #30-#31, #33, 136-140, 141, 142 #2, 144 #34, 150 #47, #48, 154 #3, 159 #3, 162-167, 170-172, 420-423  <i>Mid-Chapter Quiz</i> 146 #10  <i>Practice Test</i> 73 #9, 173  <i>Standardized Test Practice</i> 75 #10, 175 #14  <b>Teacher Wraparound Edition:</b>            AA 173; A 140; AE 51, 138, 148; FMC 122E, 155; PA 53</p>
<p>7.2.4.2</p> <p>Solve equations resulting from proportional relationships in various contexts.</p>	<p><b>Student Edition:</b>            297-300, 302-306, 308-312, 322-326, 349, 350, 378, 497-499, 506, 608-610, 618, 799, 802, 804  <i>Algebra Lab</i> 307  <i>Mid-Chapter Quiz</i> 319 #10  <i>Practice Test</i> 353 #5, #23, 507 #20  <i>Standardized Test Practice</i> 354 #1, 508 #1, 571 #10  <b>Teacher Wraparound Edition:</b>            AE 298, 323</p>
<p>Geometry &amp; Measurement</p>	
<p>Use reasoning with proportions and ratios to determine measurements, justify formulas and solve real-world and mathematical problems involving circles and related geometric figures</p>	
<p>7.3.1.1</p> <p>Demonstrate an understanding of the proportional relationship between the diameter and circumference of a circle and that the unit rate (constant of proportionality) is <math>\pi</math>. Calculate the circumference and area of circles and sectors of circles to solve problems in various contexts.</p>	<p><b>Student Edition:</b>            298, 551-556  <i>Practice Test</i> 569 #13, #14  <b>Teacher Wraparound Edition:</b>            AE 304; FMC 553</p>

STANDARDS	PAGE REFERENCES
<p>7.3.1.2</p> <p>Calculate the volume and surface area of cylinders and justify the formulas used.</p>	<p><b>Student Edition:</b> 583-588, 594 #41, #44, 597-601, 606 #31, 613 #36, 616, 617 <i>Practice Test</i> 619 #12</p> <p><b>Teacher Wraparound Edition:</b> AA 619; AE 586, 599; DI 584; FMC 598; PAP 588; PC 572H</p>
<p>Analyze the effect of change of scale, translations and reflections on the attributes of two-dimensional figures</p>	
<p>7.3.2.1</p> <p>Describe the properties of similarity, compare geometric figures for similarity, and determine scale factors.</p>	<p><b>Student Edition:</b> 308-312, 318 #66-#68, 350, 497-502, 506, 526, 607-613, 618 <i>Concept Summary</i> 527 <i>Cross-Curricular Project</i> 459 <i>Geometry Lab</i> 607 <i>Mid-Chapter Quiz</i> 319 #13 <i>Standardized Test Practice</i> 508 #1, 571 #9, 620 #4</p> <p><b>Teacher Wraparound Edition:</b> A 613; AA 507; AE 309, 520, 527; DI 309; FMC 460F, 498, 609; I 498; IM 499; PAP 312</p>
<p>7.3.2.2</p>	
<p>Apply scale factors, length ratios and area ratios to determine side lengths and areas of similar geometric figures.</p>	<p><b>Student Edition:</b> 295 #39, #40, 308-312, 497-502, 783 <i>Mid-Chapter Quiz</i> 319 #13, #14 <i>Standardized Test Practice</i> 508 #1</p> <p><b>Teacher Wraparound Edition:</b> AE 498, 527; PAP 312; T 497</p>
<p>7.3.2.3</p>	
<p>Use proportions and ratios to solve problems involving scale drawings and conversions of measurement units.</p>	<p><b>Student Edition:</b> 293 #2, 294 #4, 295 #31-#38, 304 #3, 308-312, 350, 499 #3, 799 <i>Mid-Chapter Quiz</i> 319 #14 <i>Standardized Test Practice</i> 354 #1</p> <p><b>Teacher Wraparound Edition:</b> AE 309</p>

STANDARDS	PAGE REFERENCES
<p>7.3.2.4</p> <p>Graph and describe translations and reflections of figures on a coordinate grid and determine the coordinates of the vertices of the figure after the transformation.</p>	<p><b>Student Edition:</b> 524-530, 566, 803 #4 <i>Mid-Chapter Quiz</i> 537 #8</p> <p><b>Teacher Wraparound Edition:</b> AE 525, 526</p>
<p>Data Analysis &amp; Probability</p>	
<p>Use mean, median and range to draw conclusions about data and make predictions.</p>	
<p>7.4.1.1</p>	
<p>Determine mean, median and range for quantitative data and from data represented in a display. Use these quantities to draw conclusions about the data, compare different data sets, and make predictions.</p>	<p><b>Student Edition:</b> 274-279, 284, 296 #54, 625 #3, 629 #15, 630 #20, #27-#29, 633-637, 638-639, 798 #13, 805 #2</p> <p><i>Cross-Curricular Project</i> 289 <i>Graphing Calculator Lab</i> 280 <i>Practice Test</i> 285 #24 <i>Standardized Test Practice</i> 286 #6, 287 #13</p> <p><b>Teacher Wraparound Edition:</b> AE 275, 276, 634, 635</p>
<p>7.4.1.2</p>	
<p>Describe the impact that inserting or deleting a data point has on the mean and the median of a data set. Know how to create data displays using a spreadsheet to examine this impact.</p>	<p><b>Student Edition:</b> <i>Cross-Curricular Project</i> 289 <i>Graphing Calculator Lab</i> 280</p>
<p>Display and interpret data in a variety of ways, including circle graphs and histograms.</p>	
<p>7.4.2.1</p>	
<p>Use reasoning with proportions to display and interpret data in circle graphs (pie charts) and histograms. Choose the appropriate data display and know how to create the display using a spreadsheet or other graphing technology.</p>	<p><b>Student Edition:</b> 651-656, 667 #4, 797 #6</p> <p><i>Spreadsheet Lab</i> 557</p> <p><b>Teacher Wraparound Edition:</b> AA 695; AE 652; DI 652; FMC 653; TNT 654</p>
<p>Calculate probabilities and reason about probabilities using proportions to solve real-world and mathematical problems.</p>	
<p>7.4.3.1</p>	
<p>Use random numbers generated by a calculator or a spreadsheet or taken from a table to simulate situations involving randomness, make a histogram to display the results, and compare the results to known probabilities.</p>	<p><b>Student Edition:</b> 644-649</p> <p><i>Graphing Calculator Lab</i> 650</p> <p><b>Teacher Wraparound Edition:</b> A 650; AE 645; DI 652; PAP 649</p>

STANDARDS	PAGE REFERENCES
7.4.3.2	
<p>Calculate probability as a fraction of sample space or as a fraction of area. Express probabilities as percents, decimals and fractions.</p>	<p><b>Student Edition:</b> 666-669</p> <p><b>Teacher Wraparound Edition:</b> AE 666; PAP 669</p>
Number & Operation	
Read, write, compare, classify and represent real numbers, and use them to solve problems in various contexts.	
8.1.1.1	
<p>Classify real numbers as rational or irrational. Know that when a square root of a positive integer is not an integer, then it is irrational. Know that the sum of a rational number and an irrational number is irrational, and the product of a non-zero rational number and an irrational number is irrational.</p>	<p><b>Student Edition:</b> 464-468, 469-474, 490 #51, #54 <i>Algebra Lab</i> 462-463 <i>Mid-Chapter Quiz</i> 482 #11-#14</p> <p><b>Teacher Wraparound Edition:</b> FMC 460E, 471</p>
8.1.1.2	
<p>Compare real numbers; locate real numbers on a number line. Identify the square root of a positive integer as an integer, or if it is not an integer, locate it as a real number between two consecutive positive integers.</p>	<p><b>Student Edition:</b> 469-474 <i>Algebra Lab</i> 462-463, 491</p> <p><b>Teacher Wraparound Edition:</b> FMC 471</p>
8.1.1.3	
<p>Determine rational approximations for solutions to problems involving real numbers.</p>	<p><b>Student Edition:</b> 466 #4, 467 #29-#30, 468 #43</p> <p><b>Teacher Wraparound Edition:</b> DI 465</p>
8.1.1.4	
<p>Know and apply the properties of positive and negative integer exponents to generate equivalent numerical expressions.</p>	<p><b>Student Edition:</b> 180-184, 190 #53, 203-207, 209-213, 220</p> <p><b>Teacher Wraparound Edition:</b> A 213; AE 181</p>
8.1.1.5	
<p>Express approximations of very large and very small numbers using scientific notation; understand how calculators display numbers in scientific notation. Multiply and divide numbers expressed in scientific notation, express the answer in scientific notation, using the correct number of significant digits when physical measurements are involved.</p>	<p><b>Student Edition:</b> 214-218, 222, 318 #73, 363 #40, 797 <i>Practice Test</i> 223 #25-#30 <i>Standardized Test Practice</i> 224 #2, #5, 268 #5, 355 #8, #11</p> <p><b>Teacher Wraparound Edition:</b> AA 223; AE 215; DI 215</p>

STANDARDS	PAGE REFERENCES
Algebra	
Understand the concept of function in real-world and mathematical situations, and distinguish between linear and non-linear functions.	
8.2.1.1	
Understand that a function is a relationship between an independent variable and a dependent variable in which the value of the independent variable determines the value of the dependent variable. Use functional notation, such as $f(x)$ , to represent such relationships.	<p><b>Student Edition:</b>  <i>Reading Math</i> 370  Also see <i>Glencoe Algebra 1</i> © 2008 for the following references.</p> <p><b>Student Edition:</b>  53-58, 149-154, 155-161  <i>Algebra Lab</i> 59</p> <p><b>Teacher Wraparound Edition:</b>  F 151; I 54; TNT 151</p>
8.2.1.2	
Use linear functions to represent relationships in which changing the input variable by some amount leads to a change in the output variable that is a constant times that amount.	<p><b>Student Edition:</b>  365-367, 376-381  <i>Algebra Lab</i> 358  <i>Standardized Test Practice</i> 224 #8</p>
8.2.1.3	
Understand that a function is linear if it can be expressed in the form $f(x)=mx+b$ or if its graph is a straight line.	<p><b>Student Edition:</b>  376, 391-394, 397-402  <i>Graphing Calculator Lab</i> 395-396</p> <p><b>Teacher Wraparound Edition:</b>  AE 392; FMC 399</p>
8.2.1.4	
Understand that an arithmetic sequence is a linear function that can be expressed in the form $f(x)=mx+b$ , where $x = 0, 1, 2, 3, \dots$	<p>These terms are introduced on the following pages.</p> <p><b>Student Edition:</b>  158-161  Also see <i>Glencoe Algebra 1</i> © 2008 for the following references.</p> <p><b>Student Edition:</b>  165-170, 187-195, 204-209  <i>Algebra Lab</i> 186, 210-211</p>

STANDARDS	PAGE REFERENCES
<p>8.2.1.5</p> <p>Understand that a geometric sequence is a non-linear function that can be expressed in the form <math>f(x)=ab^x</math>, where <math>x = 0, 1, 2, 3, \dots</math></p>	<p>This concept can be found in <i>Glencoe Algebra 1</i> © 2008 on the following pages.</p> <p><b>Student Edition:</b>  <i>Reading Mathematics</i> 171</p> <p>Also see the additional references in <i>Glencoe Algebra 1 Chapter Resource Masters</i> on the following page.  <i>Chapter 4 Resource Masters</i> 18</p>
<p>Recognize linear functions in real-world and mathematical situations; represent linear functions and other functions with tables, verbal descriptions, symbols and graphs; solve problems involving these functions and explain results in the original context.</p>	
<p>8.2.2.1</p> <p>Represent linear functions with tables, verbal descriptions, symbols, equations and graphs; translate from one representation to another.</p>	<p><b>Student Edition:</b>  359-363, 365-369, 371-375, 397-402  <i>Algebra Lab</i> 358  <i>Graphing Calculator Lab</i> 364</p> <p><b>Teacher Wraparound Edition:</b>  A 375; AE 361, 367, 373; DI 398; PA 363, 402</p>
<p>8.2.2.2</p> <p>Identify graphical properties of linear functions including slopes and intercepts. Know that the slope equals the rate of change, and that the <math>y</math>-intercept is zero when the function represents a proportional relationship.</p>	<p><b>Student Edition:</b>  371-375, 376-379, 384-389, 391-394, 410, 411  <i>Algebra Lab</i> 383  <i>Graphing Calculator Lab</i> 390  <i>Mid-Chapter Quiz</i> 382  <i>Practice Test</i> 413</p> <p><b>Teacher Wraparound Edition:</b>  AA 413; AE 392; FMC 356E, 378; PA 389</p>
<p>8.2.2.3</p> <p>Identify how coefficient changes in the equation <math>f(x) = mx + b</math> affect the graphs of linear functions. Know how to use graphing technology to examine these effects.</p>	<p><b>Student Edition:</b>  362 #29, 391-394  <i>Algebra Lab</i> 358  <i>Graphing Calculator Lab</i> 395-396  <i>Mid-Chapter Quiz</i> 382</p> <p><b>Teacher Wraparound Edition:</b>  PA 363</p>

STANDARDS	PAGE REFERENCES
<p><b>8.2.2.4</b></p> <p>Represent arithmetic sequences using equations, tables, graphs and verbal descriptions, and use them to solve problems.</p>	<p><b>Student Edition:</b> 158-161, 167 #45-#46, 172, 184 #71, 190 #55-#57 <i>Practice Test</i> 173 #23 <i>Standardized Test Practice</i> 174 #4</p> <p><b>Teacher Wraparound Edition:</b> AE 159</p>
<p><b>8.2.2.5</b></p> <p>Represent geometric sequences using equations, tables, graphs and verbal descriptions, and use them to solve problems.</p>	<p>See <i>Glencoe Algebra 1</i> © 2008 for the following references.</p> <p><b>Student Edition:</b> <i>Reading Mathematics</i> 171</p> <p>Also see the additional references in <i>Glencoe Algebra 1 Chapter Resource Masters</i> on the following page. <i>Chapter 4 Resource Masters</i> 18</p>
<p>Generate equivalent numerical and algebraic expressions and use algebraic properties to evaluate expressions.</p>	
<p><b>8.2.3.1</b></p> <p>Evaluate algebraic expressions, including expressions containing radicals and absolute values, at specified values of their variables.</p>	<p><b>Student Edition:</b> 37-41, 53 #48-#51, 59 #63-#66, 66 #38-#40, 71, 90 #60-#63, 97 #65, 464-468 <i>Mid-Chapter Quiz</i> 48 <i>Practice Test</i> 73 #3-#4</p> <p><b>Teacher Wraparound Edition:</b> AE 465; DI 38; PA 468</p>
<p><b>8.2.3.2</b></p> <p>Justify steps in generating equivalent expressions by identifying the properties used, including the properties of algebra. Properties include the associative, commutative and distributive laws, and the order of operations, including grouping symbols.</p>	<p><b>Student Edition:</b> 32-36, 43-47, 71, 90 #50-#51, 124-128, 130-131, 170, 181, 200 #56-#61, 213 #71-#74 <i>Practice Test</i> 73 #5-#8, 173 #3-#6 <i>Reading Math</i> 32</p> <p><b>Teacher Wraparound Edition:</b> AE 38, 44, 125</p>

STANDARDS	PAGE REFERENCES
<p>Represent real-world and mathematical situations using equations and inequalities involving linear expressions. Solve equations and inequalities symbolically and graphically. Interpret solutions in the original context.</p>	
<p>8.2.4.1</p>	
<p>Use linear equations to represent situations involving a constant rate of change, including proportional and non-proportional relationships</p>	<p><b>Student Edition:</b>            297-300, 349, 365-369, 371-375, 376-381, 389 #35, 391-394  <i>Graphing Calculator Lab</i> 390  <i>Mid-Chapter Quiz</i> 382 #15, #16  <i>Standardized Test Practice</i> 354 #1  <b>Teacher Wraparound Edition:</b>            A 375, 377; AE 298, 367; FMC 367, 378; PA 369</p>
<p>8.2.4.2</p>	
<p>Solve multi-step equations in one variable. Solve for one variable in a multi-variable equation in terms of the other variables. Justify the steps by identifying the properties of equalities used.</p>	<p><b>Student Edition:</b>            136-137, 147-151, 155 #4, 161 #44-#46, 417 #1-#7, 420-423, 424-428, 434 #50  <b>Teacher Wraparound Edition:</b>            A 151; AE 148, 421, 425; DI 425</p>
<p>8.2.4.3</p>	
<p>Express linear equations in slope-intercept, point-slope and standard forms, and convert between these forms. Given sufficient information, find an equation of a line.</p>	<p><b>Student Edition:</b>            365-369, 391-394, 397-402, 409, 411, 800  <i>Practice Test</i> 413  <i>Standardized Test Practice</i> 414 #1  <b>Teacher Wraparound Edition:</b>            AE 367, 398, 399; FMC 399; PA 369</p>
<p>8.2.4.4</p>	
<p>Use linear inequalities to represent relationships in various contexts.</p>	<p><b>Student Edition:</b>            430-434, 435-439, 441-445, 446-450, 453, 454, 801  <i>Mid-Chapter Quiz</i> 440  <i>Standardized Test Practice</i> 457 #14  <b>Teacher Wraparound Edition:</b>            AE 431, 447</p>
<p>8.2.4.5</p>	
<p>Solve linear inequalities using properties of inequalities. Graph the solutions on a number line.</p>	<p><b>Student Edition:</b>            435-439, 441-445, 446-450  <i>Mid-Chapter Quiz</i> 440 #25  <b>Teacher Wraparound Edition:</b>            AE 436, 442; TNT 436</p>

STANDARDS	PAGE REFERENCES
<p><b>8.2.4.6</b></p> <p>Represent relationships in various contexts with equations and inequalities involving the absolute value of a linear expression. Solve such equations and inequalities and graph the solutions on a number line.</p>	<p>See <i>Glencoe Algebra 1</i> © 2008 for the following references.</p> <p><b>Student Edition:</b> 322-327, 329-333 <i>Graphing Calculator Lab</i> 328</p>
<p><b>8.2.4.7</b></p> <p>Represent relationships in various contexts using systems of linear equations. Solve systems of linear equations in two variables symbolically, graphically and numerically.</p>	<p><b>Student Edition:</b> 395</p> <p>Also see <i>Glencoe Algebra 1</i> © 2008 for the following references.</p> <p><b>Student Edition:</b> 253-258, 260-265, 266-270, 272-278, 280-284 <i>Algebra Lab</i> 260 <i>Graphing Calculator Lab</i> 259 <i>Spreadsheet Lab</i> 252</p>
<p><b>8.2.4.8</b></p> <p>Understand that a system of linear equations may have no solution, one solution, or an infinite number of solutions. Relate the number of solutions to pairs of lines that are intersecting, parallel or identical. Check whether a pair of numbers satisfies a system of two linear equations in two unknowns by substituting the numbers into both equations.</p>	<p>See <i>Glencoe Algebra 1</i> © 2008 for the following references.</p> <p><b>Student Edition:</b> 253-258, 260-265, 266-270, 272-278, 280-284 <i>Algebra Lab</i> 260 <i>Graphing Calculator Lab</i> 259 <i>Spreadsheet Lab</i> 252</p>
<p><b>8.2.4.9</b></p> <p>Use the relationship between square roots and squares of a number to solve problems.</p>	<p><b>Student Edition:</b> 464-468, 486, 493 <i>Algebra Lab</i> 462-463</p> <p><b>Teacher Wraparound Edition:</b> AE 465</p>
<p><b>Geometry &amp; Measurement</b></p>	
<p>Solve problems involving right triangles using the Pythagorean Theorem and its converse.</p>	
<p><b>8.3.1.1</b></p> <p>Use the Pythagorean Theorem to solve problems involving right triangles.</p>	<p><b>Student Edition:</b> 485-490, 496 #29-#31, 502 #34-#36, 505, 802 <i>Algebra Lab</i> 482-483 <i>Practice Test</i> 507</p> <p><b>Teacher Wraparound Edition:</b> A 484; AE 487; PAP 490</p>

STANDARDS	PAGE REFERENCES
<p data-bbox="277 287 362 315">8.3.1.2</p> <p data-bbox="188 338 786 457">Determine the distance between two points on a horizontal or vertical line in a coordinate system. Use the Pythagorean Theorem to find the distance between any two points in a coordinate system.</p>	<p data-bbox="824 338 1029 443"><b>Student Edition:</b> 489 #35-#37 <i>Algebra Lab</i> 491</p>
<p data-bbox="277 476 362 504">8.3.1.3</p> <p data-bbox="188 527 786 674">Understand and apply the relationships between the slopes of parallel lines and between the slopes of perpendicular lines. Dynamic graphing software may be used to examine the relationships between lines and their equations.</p>	<p data-bbox="824 527 1219 632"><b>Student Edition:</b> Limited to: <i>Graphing Calculator Lab</i> 395-396</p>
<p data-bbox="277 697 362 724">8.3.2.2</p> <p data-bbox="188 747 786 804">Analyze polygons on a coordinate system by determining the slopes of their sides.</p>	<p data-bbox="824 747 1390 804">See <i>Glencoe Geometry</i> © 2008 for the following references.</p> <p data-bbox="824 814 1357 972"><b>Student Edition:</b> 142-147, 149-154, 329 #31-#33, 336 ex 5, 343 ex 4, 344 #6, 345 #30-#31, 347 #12-#13, 350 ex 3, 354 #45-#46, 357 ex 3, 359 #3-#4, 360 #13-#16, 361 #25-#26, 364 ex 3</p> <p data-bbox="824 982 1195 1050"><b>Teacher Wraparound Edition:</b> AE 336, 343, 350, 357, 364</p>
<p data-bbox="277 1068 362 1096">8.3.2.3</p> <p data-bbox="188 1119 786 1266">Given a line on a coordinate system and the coordinates of a point not on the line, find lines through that point that are parallel and perpendicular to the given line, symbolically and graphically.</p>	<p data-bbox="824 1119 1036 1186"><b>Student Edition:</b> 142-147, 149-154</p> <p data-bbox="824 1197 1195 1264"><b>Teacher Wraparound Edition:</b> A 147; AE 143, 144; PA 147</p>
<p data-bbox="277 1289 597 1316">Data Analysis &amp; Probability</p>	
<p data-bbox="277 1337 1365 1394">Interpret data using scatterplots and approximate lines of best fit. Use lines of best fit to draw conclusions about data.</p>	
<p data-bbox="277 1415 362 1442">8.4.1.1</p> <p data-bbox="188 1465 786 1675">Collect, display and interpret data using scatterplots. Use the shape of the scatterplot to informally estimate a line of best fit and determine an equation for the line. Use appropriate titles, labels and units. Know how to use graphing technology to display scatterplots and corresponding lines of best fit.</p>	<p data-bbox="824 1465 1425 1713"><b>Student Edition:</b> 61-65, 72, 83 #79, #80, 90 #56, #57, 403-407, 412, 800 #14, #15 <i>Algebra Lab</i> 60 <i>Graphing Calculator Lab</i> 67-68 <i>Practice Test</i> 73 #16, 413 #19, #20 <i>Standardized Test Practice</i> 75 #13</p> <p data-bbox="824 1724 1414 1822"><b>Teacher Wraparound Edition:</b> AE 62, 63, 64, 404, 405; DI 404; FF 66; FMC 405; PAP 407</p>

STANDARDS	PAGE REFERENCES
<p>8.4.1.2</p> <p>Use a line of best fit to make statements about approximate rate of change and to make predictions about values not in the original data set.</p>	<p><b>Student Edition:</b>            Limited Use on pages            403-407, 412, 428 #47</p>
<p>8.4.1.3</p> <p>Assess the reasonableness of predictions using scatterplots by interpreting them in the original context.</p>	<p><b>Student Edition:</b>            61-65, 405 #7, #8  <i>Algebra Lab</i> 60  <i>Graphing Calculator Lab</i> 67-68  <i>Practice Test</i> 73 #16</p> <p><b>Teacher Wraparound Edition:</b>            AE 64; PAP 66; T 61</p>