



Geometry

Concepts and Applications

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STANDARDS	PAGE REFERENCES
GEOMETRY PERFORMANCE STANDARDS	
G:1 Number Sense	
.1 Validate numerical solutions for application problems.	<p>Student Edition: 263-264, 479, 481 #24-#25, 482 #26-#27, 483-485, 486 #24-#25, 487 #26-#38, 506-508, 548-553, 557 #15, 558 #16-#17, 563 #17-#19</p> <p><i>Check for Understanding</i> 265 #4-#6, #7-#11, 552 #15, 557 #6, 562 #6</p> <p><i>Real World Example</i> 264, 508, 551, 555, 561</p> <p>Teacher Wraparound Edition: A 553; F 483, 554; ICE 484, 507, 508, 549, 550, 551, 555; ML 548; TT 479, 480, 506, 549</p>
.2 Describe the number "Pi" and its relationship to a circle.	<p>Student Edition: 479-482, 483-487</p> <p><i>Check for Understanding</i> 480 #1-#9, 485 #1-#2, #486 #3-#7</p> <p><i>Real World Example</i> 480, 484</p> <p><i>Study Guide and Assessment</i> 490 #29-#34, #35-#38</p> <p><i>Test</i> 491 #13-#15, #16-#18</p> <p><i>Theorem 11-8</i> 483</p> <p><i>Theorem 11-9</i> 485</p> <p><i>Quiz</i> 482 #4</p> <p>Teacher Wraparound Edition: A 482, 487; F 483; ICE 479, 480, 483, 484, 485; TT 479, 480, 484</p>

STANDARDS	PAGE REFERENCES
<p>.3 Determine the circumference and area of circles and the surface area and volume of cylinders and spheres.</p>	<p>Student Edition: 479-482, 483-487, 506, 509 #13-#15, #17, #20, 514 #14-#16, #18, #22-24, 528-533 <i>Check for Understanding</i> 480 #1-#9, 485 #1-#2, #486 #3-#7, 508 #2, #5-#6, 513 #5, #9, 531 #1-#6 <i>Real World Example</i> 480, 484, 508, 512, 530 <i>Study Guide and Assessment</i> 490 #29-#34, #35-#38 <i>Test</i> 491 #13-#15, #16-#18 <i>Theorem</i> 11-8 483 <i>Theorem</i> 11-9 485 <i>Theorem</i> 12-4 507 <i>Theorem</i> 12-6 512 <i>Theorem</i> 12-13, 12-14 529 <i>Quiz</i> 482 #4, 515 #4, #7-#9 Teacher Wraparound Edition: A 482, 487; F 483, 510, 534; ICE 479, 480, 483, 484, 485, 507, 508, 512, 529, 530; TT 479, 480, 484, 529</p>
<p>.4 Sketch diagrams that represent given information about measures of segments and angles.</p>	<p>Student Edition: 56-61, 96-101, 100 #23-#28, 148-153, 240-243, 276-281 <i>Check for Understanding</i> 59 #4-#10, 100 #1-#2, #8-#9, 151 #1-#2, 152 #3-#12, 242 #1-#2, 280 #1-#3 <i>Hands-On Geometry</i> 99, 149 <i>Real World Example</i> 277, 278, 279 <i>Study Guide and Assessment</i> 135 #15-#18 <i>Theorem</i> 4-1, 4-2, 4-3 150 <i>Theorem</i> 7-1, 7-2 277 Teacher Wraparound Edition: A 61, 101, 153, 243, 281; F 156, 246; HOG 99, 149; ICE 57, 58, 97, 98, 149, 150, 151, 241, 278, 279; ML 240; TT 97, 240, 278, 279</p>

STANDARDS	PAGE REFERENCES
<p>.5 Explain restrictions on variables representing angles and lengths.</p>	<p>Student Edition: 62-67, 67 #21, 116-121 <i>Algebra Link</i> 64 Example 3 <i>Check For Understanding</i> 66 #3-#7, 120 #11-#12 <i>Study Guide and Assessment</i> 83 #17-#22, 135 #25-#28, 136 #29-#32 <i>Test</i> 85 #3-#5, #6-#8, 137 #11-#13</p> <p>Teacher Wraparound Edition: A 67, 121; F 68, 122; ICE 64, 118, 119; ML 116; TT 116, 117</p>
G:2 Computation	
<p>.1 Simplify expressions involving radicals and exponents.</p>	<p>Student Edition: 263-267, 548-553, <i>Check for Understanding</i> 265 #1-#10, 552 #4-#15, 556 #3, 557 #4-#6, 562 #3-#6 <i>Hands-On Geometry</i> 262, 554, 559 <i>Real-World Example</i> 561 <i>Study Guide and Assessment</i> 270 #31-#34, 578 #11-#16, 579 #17-#20, #21-#24 <i>Technology Tip</i> 549 <i>Test</i> 271 #19, 581 #3-#6, #7-#9, #10-#12 <i>Theorem 6-11</i> 263 <i>Theorem 13-1</i> 555 <i>Theorem 13-2</i> 560 <i>Quiz 1</i> 558</p> <p>Teacher Wraparound Edition: A 553, 558; F 554, 559; HOG 263, 555, 560; ICE 263, 264, 549, 550, 551; TT 263, 264, 549</p>
<p>.2 Simplify complex fractions.</p>	<p>Student Edition: <i>Algebra Review</i> 718 Example 2, #18 <i>Preparing for Standardized Tests</i> 492 Example 2</p>

STANDARDS	PAGE REFERENCES
<p>.3 Evaluate formulas relevant to geometry including distance, midpoint, area, perimeter, volume, Pythagorean theorem, and quadratic formula.</p>	<p>Student Edition: 35-40, 55 #32-#34, 77-81, 94 #27, 179 #42, 256-261, 262-267, 419-424, 425-430, 483-487, <i>Check for Understanding</i> 38 #1-#5, 39 #6-#11, 79 #1-#3, 80 #4-#13, 259 #1-#13, 265 #1-#11, 422 #1-#6, 423 #7-#10, 426 #1-#5, 429 #6, 485 #1-#2, 486 #3-#7, <i>Graphing Calculator Exploration</i> 79 <i>Hands-On Geometry</i> 76, 262, 425 <i>Math In the Workplace</i> 41 <i>Preparing for Standardized Tests</i> 346 Example 2 <i>Real World Example</i> 37, 258, 264, 426 <i>Theorem</i> 2-5, 2-6 77 <i>Theorem</i> 6-9 256 <i>Theorem</i> 6-10 258 <i>Theorem</i> 6-11 263 <i>Theorem</i> 10-3 419 <i>Theorem</i> 10-4 421 <i>Theorem</i> 10-5 426 <i>Theorem</i> 11-8 483 <i>Theorem</i> 11-9 485</p> <p>Teacher Wraparound Edition: A 40, 81; F 50, 425; HOG 77, 263, 426; ICE 36, 37, 78, 257, 258, 263, 264, 420, 421, 426, 427, 483, 484, 485; ML 35, 76, 256; TT 37, 77, 257, 258, 263, 264, 426</p>
<p>.4 Set up and solve proportions involving similar figures.</p>	<p>Student Edition: 356-361, 534-539 <i>Check for Understanding</i> 359 #1-#8, 365 #1-#4, 366 #5, 537 #1-#6 <i>Hands-On Geometry</i> 362 <i>Real World Example</i> 358, 365, 537 <i>Study Guide and Assessment</i> 542 #26-#28 <i>Test</i> 543 #20 <i>Theorem</i> 9-1, 9-2, 9-3 363 <i>Theorem</i> 12-15 536 <i>Quiz</i> 361 #4-#5</p> <p>Teacher Wraparound Edition: A 361, 367, 539; F 362; ICE 357, 358, 364, 365, 535, 536, 537; ML 362; TT 356, 357, 363, 364, 535</p>

STANDARDS	PAGE REFERENCES
<p>.5 Compute measures of unknown parts of a right triangle using the sine, cosine, and tangent ratios</p>	<p>Student Edition: 564-569, 572-577 <i>Chapter 13 Investigation</i> 570-571 <i>Check for Understanding</i> 567 #3-#4, 568 #5-#7, 575 #2, #4-#11 <i>Graphing Calculator Exploration</i> 574 <i>Real-World Example</i> 565, 573 <i>Study Guide and Assessment</i> 579 #25-#27, 580 #28-#32 <i>Test</i> 581 #13-#15, #16-#20 <i>Theorem</i> 13-3 574 <i>Quiz</i> 569 #3-#5</p> <p>Teacher Wraparound Edition: A 569, 571, 577; F 572; ICE 565, 566, 567, 573, 574; ML 564, 570, 572; TT 565, 567, 571</p>
G:3 Measurement	
<p>.1 Model and measure basic geometric figures using a variety of methods including paper folding, compass, straight edge, protractor, and technology.</p>	<p>Student Edition: 67 #20, #22, 101 #33, 108-109 <i>Chapter 9 Investigation</i> 380 <i>Check for Understanding</i> 65 #1, 108 #7-#10 <i>Graphing Calculator Exploration</i> 32, 112, 170, 246 <i>Hands-On Geometry</i> 31, 65, 76, 99, 104, 107, 169, 228, 229, 420, 474</p> <p>Teacher Wraparound Edition: A 108, 381; GCE 32, 170, 247; HOG 31, 65, 76, 99, 105, 107, 169, 420, 475; M 381; P 380; RM 48c, 88c, 140c, 186c, 226c, 274c, 400c, 452c, 494c,</p>
<p>.2 Use compass and straight edge for basic constructions.</p>	<p>Student Edition: 31, 67 #20, #22, 100 #23-#28, 281 #37 <i>Chapter 6 Investigation</i> 244 <i>Check for Understanding</i> 65 #1, 100 #1-#2, #8-#9 <i>Hands-On Geometry</i> 65, 99, 107, 130, 162, 210, 234, 425, 560 <i>Real World Example</i> 561</p> <p>Teacher Wraparound Edition: A 245; HOG 65, 99, 107, 130, 163, 211, 235, 425, 560; M 245; P 244; TT 131</p>

STANDARDS	PAGE REFERENCES
<p>.3 Use appropriate units to label solutions of application problems.</p>	<p>Student Edition: 35, 40 #29-#32, 161 #30, 354 #43-#45, 462-467, 466 #36, 467 #37, 477 #16-#20, 481 #24-#25, 482 #26-#27, 487 #26-#28, 514 #23-#25, 521 #15-#17, 526 #21-#23, 532 #17-#20, 533 #21-#22 <i>Check for Understanding</i> 39 #11, 353 #16, 466 #12, 476 #6, 481 #9, 486 #6, 513 #3, #10, 525 #7, 531 #6 <i>Math In the Workplace</i> 41 <i>Mixed Review</i> 482 #28-#30, 515 #26-#28 <i>Real World Example</i> 37, 352, 480, 484, 512, 530 <i>Study Guide and Assessment</i> 44 #33-#34 <i>Test</i> 45 #25 <i>Theorem 11-3</i> 464 <i>Theorem 11-6</i> 475 <i>Theorem 11-8</i> 483 <i>Theorem 11-9</i> 485 Teacher Wraparound Edition: A 477, 482; ICE 37, 352, 475, 480, 484, 485, 512, 530; ML 35; TT 475, 480, 511</p>
G:4 Theory	
<p>.1 Communicate both orally and in writing, using correct geometric vocabulary and notation.</p>	<p>Student Edition: 638-643, 644-648, 654-659 <i>Check for Understanding</i> 640 #1-#2, 641 #3-#8, 646 #1-#5, 656 #1-#2, 657 #3-#5 <i>Quiz</i> 648 #3-#5, 659 #1-#5 Teacher Wraparound Edition: A 202, 261, 267, 287, 338, 373, 515, 643, 648, 659; F 644; ICE 639, 640, 645, 655, 656; ML 638, 644, 654; TT 638, 640, 642, 645, 655, 656</p>
<p>.2 Explain the difference among definitions, postulates/axioms, and theorems.</p>	<p>Student Edition: 18, 62, 802-828, 818, 825 <i>Study Guide and Assessment</i> 42 #8, 82 #8 Teacher Wraparound Edition: A 22; TT 19</p>

STANDARDS	PAGE REFERENCES
<p>.3 Explain the importance of the Parallel Postulate in Euclidean geometry.</p>	<p>Student Edition: 162-167 <i>Check for Understanding</i> 165 #1-#7, 166 #8 <i>Hands-On Geometry</i> 162 <i>Postulate 4-2</i> 162 <i>Real-World Example</i> 163 <i>Study Guide and Assessment</i> 181 #30-#33 <i>Test</i> 183 #15-#17 <i>Theorem 4-5, 4-6</i> 163 <i>Theorem 4-7, 4-8</i> 164</p> <p>Teacher Wraparound Edition: A 167; F 168; HOG 163; ICE 163, 164; TT 164</p>
<p>.4 Classify problems as classical Euclidean geometry, coordinate geometry, or transformational geometry.</p>	<p>Student Edition: 198-202, 295 #30, 407 #42, 660-665 <i>Check for Understanding</i> 200 #1-#8, 663 #1-#9 <i>Hands-On Geometry</i> 660 <i>Quiz</i> 202 #5 <i>Real World Example</i> 200 <i>Study Guide and Assessment</i> 221 #16-#19 <i>Test</i> 223 #10-#12</p> <p>Teacher Wraparound Edition: A 202, 665; F 440; HOG 661; ICE 199, 200, 661, 662, 663; ML 198, 660; TT 199, 661</p>
<p>.5 Explain the difference between inductive and deductive reasoning.</p>	<p>Student Edition: 4-5, 458 #37, 638-643, 652 #6-#8, 653 #11, 657 #6-#9 <i>Check for Understanding</i> 7 #4-#7, #8-#11, 8 #12-#13, 640 #1-#2, 641 #3-#8, 657 #3-#4 <i>Quiz</i> 659 <i>Study Guide and Assessment</i> 42 #11-#13</p> <p>Teacher Wraparound Edition: A 9; F 644; ICE 4,5, 639, 640, 656; TT 638, 640</p>

STANDARDS	PAGE REFERENCES
G:5 Deduction	
<p>.1 State the converse, inverse and contrapositive of a conditional statement and determine the validity of each.</p>	<p>Student Edition: 24-28, 34 #15-#17, 43 #24-#25, 121 #35-#36, 632-637 <i>Check for Understanding</i> 26 #1-#9, 636 #6-#13 <i>Real World Example</i> 26 <i>Quiz</i> 28 #5 Teacher Wraparound Edition: A 28, 637; ICE 25, 26, 632, 633, 635; ML 24, 632; TT 24, 25, 633, 634, 635</p>
<p>.2 Rewrite an "if and only if" statement into two conditional statements and vice versa.</p>	<p>Student Edition: 27 #28-#29, 56, 632-637, 638-643 <i>Check for Understanding</i> 636 #1-#2, #13, 641 #4-#8 Teacher Wraparound Edition: A 637, 643; F 638; ICE 632, 634, 639, 640; ML 632 638</p>
<p>.3 Prove conjectures related to geometric figures using paragraph proofs, indirect proofs, two-column proofs, and coordinate geometry proofs.</p>	<p>Student Edition: 644-648, 649-652, 654-659, 660-665, 686 #33, 702 #20 <i>Check for Understanding</i> 646 #1-#3, 651 #1-#5, 656 #1-#5, 663 #1-#9 <i>Hands-On Geometry</i> 660 Teacher Wraparound Edition: A 648, 653, 659, 665; F 649, 654, 660; HOG 661; ICE 645, 650, 651, 655, 656, 661, 662, 663; ML 644, 649, 654, 660; TT 645, 649, 650, 654, 655, 656, 658, 661</p>
<p>.4 Prove triangles are congruent using SSS, SAS, ASA, AAS, and HL.</p>	<p>Student Edition: 657 #3-#4, 657 #7-#9, 658 #10-#11, #15-#16 <i>Extra Practice</i> 735 Lesson 5-5 #1-#7, Lesson 5-6 #1-#3, 737 Lesson 6-5 #3, #6, 755 Lesson 15-4 #1, #4, Lesson 15-5 #4 <i>Quiz</i> 659 #5 Teacher Wraparound Edition: ICE 656</p>

STANDARDS	PAGE REFERENCES
<p>.5 Use definitions of terms related to triangles (i.e. altitude, median, angle bisector, isosceles, etc.) to deduce other properties of triangles.</p>	<p>Student Edition: 228-233, 234-239, 240-243, 246-250 <i>Check for Understanding</i> 231 #1-#7, 237 #1-#7, 242 #1-#6, 249 #1-#5 <i>Graphing Calculator Exploration</i> 246 <i>Hands-On Geometry</i> 228, 234 <i>Theorem 6-1</i> 230 <i>Theorem 6-2, 6-3</i> 247 <i>Theorem 6-4</i> 248 <i>Theorem 6-5</i> 249 Quiz 243</p> <p>Teacher Wraparound Edition: GCE 247; HOG 229, 235; ICE 229, 230, 235, 236, 241, 247, 248; ML 228, 234, 240, 246; TT 229, 230, 234, 235, 236, 240, 247</p>
<p>.6 Develop and explain the properties of trapezoids, parallelograms, rectangles, rhombuses, kites, and squares using the definitions of the various quadrilaterals.</p>	<p>Student Edition: 316-321, 322-326, 327-331, 333-338, <i>Chapter 8 Investigation</i> 340-341 <i>Check for Understanding</i> 319 #1-#9, 324, #1-#2, 325 #3-#6, 330 #1-#15, 336 #1-#7 <i>Graphing Calculator Exploration</i> 316 <i>Hands-On Geometry</i> 322, 328 <i>Math In the Workplace</i> 339 <i>Real World Example</i> 328, 333 Test 345 <i>Theorem 8-2, 8-3, 8-4</i> 317 <i>Theorem 8-5</i> 318 <i>Theorem 8-6</i> 319 <i>Theorem 8-7</i> 323 <i>Theorem 8-8, 8-9</i> 324 <i>Theorem 8-10, 8-11, 8-12</i> 329 <i>Theorem 8-13, 8-14</i> 334 Quiz 332 #1-#5</p> <p>Teacher Wraparound Edition: A 321, 326, 338, 341; F 322, 327, 333; GCE 317; HOG 323, 328; ICE 318, 323, 324, 328, 329, 333, 334, 335; ML 317, 327, 340; TT 317, 322, 323, 327, 333, 335, 341</p>

STANDARDS	PAGE REFERENCES
<p>.7 Prove two triangles are similar and write a valid proportion showing the relationship between the corresponding sides.</p>	<p>Student Edition: 362-367, 368-373, 382-387 <i>Check for Understanding</i> 365 #1-#4, 366 #5, 372 #1-#8, 376 #1-#9, 384 #1-#8 <i>Graphing Calculator Exploration</i> 371 <i>Hands-On Geometry</i> 362, 370, 382 <i>Math In the Workplace</i> 379 <i>Postulate</i> 9-1, 9-2, 9-3 363 <i>Real World Example</i> 365 <i>Theorem</i> 9-4 368 <i>Theorem</i> 9-5 370 <i>Theorem</i> 9-6 374 <i>Theorem</i> 9-7 375 <i>Theorem</i> 9-8 383 <i>Theorem</i> 9-9 384 <i>Quiz</i> 387 #1-#5</p> <p>Teacher Wraparound Edition: A 367, 373, 386; F 368, 382; GCE 371; HOG 363, 370, 383; ICE 364, 365, 369, 371, 375, 376, 383; ; ML 362, 368, 374, 383; TT 363, 364, 368, 369, 374, 375, 383</p>
<p>.8 Prove conjectures related to angles, parallel lines, and planes.</p>	<p>Student Edition: 642 #13, 645, 646 #7, 647 #11, 652 #8, 658 #10, 661 <i>Check for Understanding</i> 641 #4, 646 #3-#5, 651 #4, 657 #4, 663 #8-#9 <i>Study Guide and Assessment</i> 670 #23-#24, #25-#26, #27-#28 <i>Test</i> 671 #7-#8, #9-#11, #12-#13, #14-#16 <i>Quiz</i> 648 #5, 659 #1-#5</p> <p>Teacher Wraparound Edition: ICE 639, 640, 645, 650, 655, 662, 663; TT 640</p>
G:6 Diagrams and Models	
<p>.1 Select appropriate theorems to prove or disprove conjectures related to geometric figures.</p>	<p>Student Edition: 645, 646 #6-#7, 647 #8-#10, 647 #12-#14, 657 #6-#9, 658 #10-#11, 658 #12-#14 <i>Check for Understanding</i> 646 #3-#5, 657 #3-5 <i>Study Guide and Assessment</i> 670 #23-#24 <i>Test</i> 671 #12-#13</p> <p>Teacher Wraparound Edition: F 649, 654; ICE 645, 655, 656; TT 656</p>

STANDARDS	PAGE REFERENCES
<p>.2 Identify, classify, and draw two-dimensional and three-dimensional figures.</p>	<p>Student Edition: 402-407, 496-501, 516, 521 #17, #19 <i>Check for Understanding</i> 404 #1, 405 #4-#5, 498 #1-#3, 499 #4-#13, 520 #2 <i>Real World Example</i> 498 Teacher Wraparound Edition: A 407, 501; ICE 403, 404, 496, 498; ML 402, 496, 517; TT 402, 404, 497, 517, 518</p>
<p>.3 Draw and label triangles illustrating the congruency relationships of SSS, SAS, ASA, AAS, and HL.</p>	<p>Student Edition: 210-214, 215-219, 233 #24-#25, 239 #25, 251-255, 315 #42-#43 <i>Check for Understanding</i> 212 #3-#4, 213 #5-#7, 217 #3-#5, 218 #6-#10, 253, #1-#5, 254 #6 <i>Hands-On Geometry</i> 210 <i>Postulate 5-1</i> 211 <i>Postulate 5-2</i> 212 <i>Postulate 5-3</i> 215 <i>Postulate 5-4</i> 216 <i>Postulate 6-1</i> 252 <i>Study Guide and Assessment</i> 222 #24-#25 <i>Test</i> 223 #13-#15, #17-#19 <i>Theorem 6-6</i> 251 <i>Theorem 6-7, 6-8</i> 252 Teacher Wraparound Edition: A 214, 219, 255; F 215; HOG 211; ICE 211, 212, 216, 253; ML 210, 215, 251; TT 211, 216, 251, 252</p>
<p>.4 Identify and label corresponding parts of overlapping triangles.</p>	<p>Student Edition: 325 #13, 368-373 <i>Check for Understanding</i> 372 #1-#8 <i>Graphing Calculator Exploration</i> 371 <i>Hands-On Geometry</i> 370 <i>Theorem 9-4</i> 368 <i>Theorem 9-5</i> 370 Teacher Wraparound Edition: A 373; GCE 371; HOG 370; ICE 369, 371; TT 325, 368, 369</p>

STANDARDS	PAGE REFERENCES
<p>.5 Identify and label congruent non-coplanar triangles in a three-dimensional diagram.</p>	<p>Student Edition: 504-509, 509 #10-#12, 513 #12 <i>Check for Understanding</i> 508 #4, 513 #4, #8 <i>Study Guide and Assessment</i> 541 #19 <i>Test</i> 543 #9, #14 <i>Theorem</i> 12-1, 12-2 504 <i>Theorem</i> 12-5 511 <i>Quiz</i> 515 #6</p> <p>Teacher Wraparound Edition: F 510, 516; ICE 506, 511; TT 511</p>
<p>.6 Draw and label similar figures showing the correct relationship between corresponding parts.</p>	<p>Student Edition: 356-361, 362-367, 439 #33 <i>Check for Understanding</i> 359 #1-#8, 365 #1-#4, 366 #5 <i>Hands-On Geometry</i> 362 <i>Postulate</i> 9-1 363 <i>Real World Example</i> 358, 365 <i>Theorem</i> 9-2, 9-3 363</p> <p>Teacher Wraparound Edition: A 361, 367; F 362, 368; HOG 363; ICE 357, 358, 364, 365; ML 362; TT 356, 357, 363, 364</p>
<p>.7 Solve problems involving triangles, quadrilaterals, and other polygons using appropriate terminology and properties.</p>	<p>Student Edition: 356-361, 402-407, 434-439, 474-477, <i>Chapter 14 Investigation</i> 598 <i>Check for Understanding</i> 359 #1-#8, 404 #1-#3, 405 #4-#11, 436, #1-#12, 476 #1-#6 <i>Hands-On Geometry</i> 408, 474 <i>Real World Example</i> 403, 409 <i>Theorem</i> 10-1 409 <i>Theorem</i> 10-2 410 <i>Theorem</i> 11-6 475 <i>Quiz</i> 439 #9-#10</p> <p>Teacher Wraparound Edition: A 412, 477, 599; F 362, 408, 413; HOG 409, 475; ICE 357, 358, 403, 404, 409, 410, 434, 435, 475; ML 356, 402, 408, 434; TT 356, 357, 402, 404, 408, 409, 410, 435, 436, 475, 599</p>

STANDARDS	PAGE REFERENCES
<p>.8 Identify and label angles, segments, and lines as they relate to circles, and use the properties to solve problems.</p>	<p>Student Edition: 454-458, 462-467, 468-473 <i>Check for Understanding</i> 456 #1-#6, 457 #7-#12, 465 #1-#6, 466 #7-#12, 471 #1-#6, 472 #7-#8 <i>Hands-On Geometry</i> 469 <i>Postulate</i> 11-1 463 <i>Theorem</i> 11-1, 11-2 455 <i>Theorem</i> 11-4 468 <i>Theorem</i> 11-5 469 <i>Quiz</i> 467</p> <p>Teacher Wraparound Edition: A 458, 467, 473; F 462, 468, 474; HOG 469; ICE 455, 456, 463, 464, 465, 468, 470, 471; ML 454, 462, 468; TT 454, 456, 462, 463, 468, 469, 470</p>
<p>.9 Explain the difference among alternate interior angles, alternate exterior angles, corresponding angles, supplementary angles, and vertical angles formed by two lines and a transversal.</p>	<p>Student Edition: 148-153, 156-161 <i>Check for Understanding</i> 151 #1-#2, 152 #3-#12, 158 #1-#3, 159 #4-#12 <i>Hands-On Geometry</i> 149 <i>Postulate</i> 4-1 156 <i>Study Guide and Assessment</i> 181 #17-#20, #21-#24, #25-#27, #28-#29 <i>Test</i> 183 #1-#5, #12-#14, #15-#17 <i>Theorem</i> 4-1, 4-2, 4-3 150 <i>Theorem</i> 4-4 158 <i>Quiz</i> 161</p> <p>Teacher Wraparound Edition: A 153, 161; F 156, 162; HOG 149; ICE 149, 150, 151, 157, 158; ML 148, 156; TT 148, 149, 156</p>
<p>.10 Model and explain parallel, perpendicular, skew, and oblique lines.</p>	<p>Student Edition: 128-133, 142-147, 815, 816 <i>Check for Understanding</i> 131 #1-#2, 132 #3-#7, 144 #1-#11 <i>Hands-On Geometry</i> 130 <i>Study Guide and Assessment</i> 136, #33-#37, 180 #11-#13, #14-#16 <i>Test</i> 137 #14-#18, 181 #6-#11 <i>Theorem</i> 3-8 129 <i>Theorem</i> 3-9 131</p> <p>Teacher Wraparound Edition: A 133, 147; F 142, 156; HOG 130; ICE 129, 130, 143; ML 128, 142; TT 128, 130, 131, 143</p>

STANDARDS	PAGE REFERENCES
.11 Describe the relationships of planes in space.	<p>Student Edition: 14, 16 #19, #23, #30, 34 #18, 64, 142-147, 202 #30, #32, 533 #22, 233 #29, <i>Check for Understanding</i> 144 #3, #7, #10 <i>Hands-On Geometry</i> 15 <i>Study Guide and Assessment</i> 180 #14 <i>Test</i> 183 #7, #9</p> <p>Teacher Wraparound Edition: HOG 14; ICE 143; ML 142; TT 14, 143</p>
.12 Find interior and exterior angle measures of regular polygons.	<p>Student Edition: 408-412, 418 #26 <i>Check for Understanding</i> 411 #1-#7 <i>Hands-On Geometry</i> 408 <i>Study Guide and Assessment</i> 447 #15-#18 <i>Theorem 10-1</i> 409 <i>Theorem 10-2</i> 410 <i>Test</i> 449 #5-#7 <i>Quiz</i> 418 #3-#4</p> <p>Teacher Wraparound Edition: A 412; F 413; HOG 408; ICE 409; ML 408; TT 408, 409, 410</p>
.13 Confirm the validity of conjectures or provide a counter example using appropriate technology.	<p>Student Edition: 478, 494c, 546c, 584c, 674c <i>Graphing Calculator Exploration</i> 506, 574, 608, 700 <i>Math In the Workplace</i> 691 <i>Real World Example</i> 677, 678</p> <p>Teacher Wraparound Edition: GCE 479, 506, 574, 608, 699</p>
G:7 Probability	
.1 Construct a sample space and list all possible outcomes of a particular event.	<p>This concept is reinforced throughout the book. The below references are key examples.</p> <p>Student Edition: 139 #10, 185 #7, #10, 347 #10, 545 #5, 629 #2</p>
.2 Use probability to solve problems presented as geometric models.	<p>Student Edition: 438 #29, 486 #24-#25, 487 #28 <i>Check for Understanding</i> 486 #7 <i>Real World Example</i> 484</p> <p>Teacher Wraparound Edition: ICE 484; TT 484</p>

STANDARDS	PAGE REFERENCES
G:8 Patterns	
<p>.1 Solve problems using the inequality relationships between the sides and angles of a triangle.</p>	<p>Student Edition: 291-295, 296-300 <i>Check for Understanding</i> 292 #1-#2, 293 #3-#8, 298 #1-#3, 299 #4-#8 <i>Graphing Calculator Exploration</i> 290 <i>Real World Example</i> 292 <i>Study Guide and Assessment</i> 303 #27-#30, 304 #31-#33, #34-#36 <i>Test</i> 305 #16-#22 <i>Theorem 7-6, 7-7</i> 291 <i>Theorem 7-8</i> 296 <i>Quiz</i> 295 #1-#5</p> <p>Teacher Wraparound Edition: A 295, 300; F 296; GCE 291; ICE 291, 292, 297, 298; ML 290, 296; TT 291, 297, 298, 299</p>
<p>.2 Identify and use patterns from right triangles, including 30°-60°-90°, 45°-45°-90°, and Pythagorean triples to solve application problems.</p>	<p>Student Edition: 256-261, 260 #29-#34, 554-558, 559-563 <i>Check for Understanding</i> 260 #14-#15, 556 #1-#3, 557 #4-#6, 562 #1-#6 <i>Hands-On Geometry</i> 554, 559 <i>Real World Example</i> 555, 561 <i>Study Guide and Assessment</i> 270 #29-#30, 579 #17-#20, 579 #21-#24 <i>Test</i> 271 #18, 581 #7-#12 <i>Theorem 6-9</i> 256 <i>Theorem 13-1</i> 555 <i>Theorem 13-2</i> 560</p> <p>Teacher Wraparound Edition: A 558, 563; F 559; HOG 555, 559; ICE 258, 555, 556, 560, 561; ML 554, 559; TT 555, 560, 561</p>

STANDARDS	PAGE REFERENCES
<p>.3 Identify and describe patterns that emerge from two-dimensional and three-dimensional geometric figures and use the patterns to solve problems.</p>	<p>Student Edition: 9 #38, 17 #38, 440-444, 702 #15-#16 <i>Chapter 1 Investigation</i> 10-11 <i>Chapter 16 Investigation</i> 708-709 <i>Check for Understanding</i> 441 #1-#3, 442 #4-#6 <i>Math In the Workplace</i> 445 <i>Real World Example</i> 698 <i>Study Guide and Assessment</i> 448 #31, #32-#33 <i>Test</i> 449 #18-#19 <i>Quiz</i> 702 #5</p> <p>Teacher Wraparound Edition: A 11, 444, 709; ICE 441; ML 10, 440, 708; TT 11, 440, 709</p>
<p>.4 Identify, explain, and transform geometric figures using reflections, rotations, and translations on geometric figures.</p>	<p>Student Edition: 198-202, 687-690, 697-702 <i>Check for Understanding</i> 200 #1-#8, 688 #1-#2, 689 #3-#6, 694 #1-#6, 700 #2-#3, 701 #4-#7 <i>Graphing Calculator Exploration</i> 700 <i>Hands-On Geometry</i> 692 <i>Math In the Workplace</i> 691 <i>Real World Example</i> 200, 698 <i>Quiz</i> 202 #5</p> <p>Teacher Wraparound Edition: A 202, 690, 696, 702; F 203, 692, 697, 703; GCE 699; HOG 693; ICE 199, 200, 688, 693, 698, 699; ML 198, 687, 692; TT 199, 687, 688, 692, 693, 697, 698, 699</p>

STANDARDS	PAGE REFERENCES
G:9 Algebra	
<p>.1 Write and solve equations that model geometric relationships.</p>	<p>Student Edition: 98, 101 #31, 116-121, 122-127, 132-133, 228-233, 240-243, 246-250, 368-373, 382-387, 472-467, 612-617 <i>Check for Understanding</i> 119 #4-#7, 120 #10-#12, 125 #4-#8, 132 #3-#7, 231 #4-#7, 242 #3-#6, 372 #3-#8, 384 #1-2, 385 #3-#8, 466 #7-#12, 615 #3-#7 <i>Graphing Calculator Exploration</i> 371 <i>Hands-On Geometry</i> 228, 370, 382 <i>Theorem 6-1</i> 230 <i>Quiz</i> 243 #1-#5, 617 #1-#5</p> <p>Teacher Wraparound Edition: F 122, 246, 249; GCE 371; HOG 370, 382; ICE 98, 117, 118, 119, 123, 130, 229, 230, 241, 247, 248, 383, 463, 464, 465, 613, 614; TT 117, 247, 383, 463</p>

STANDARDS	PAGE REFERENCES
<p>.2 Simplify and solve equations that result from formulas.</p>	<p>Student Edition: 76-81, 101 #34, 174-179, 193-197, 408-412, 416 #9-#11, 417 #12-#17, 423 #11- #21, 429 #7-#14, 481 #10-#12, #13-#15, #16-#20, #21-#23, 486 #8-#18, #19-#23, 513 #11-#13, 514 #14-#19, #20-#22, 520 #7-#12, 521 #14, 531 #7-#12</p> <p><i>Check for Understanding</i> 79 #1-#3, 80 #4-#13, 177 #3-#11, 196 #1-#7, 259 #4-#13, 411 #1-#7, 428 #4-#5, 481 #3-#8, 486 #3-#6, 513 #4-#10, 531 #1-#6</p> <p><i>Graphing Calculator Exploration</i> 193, 478</p> <p><i>Hands-On Geometry</i> 408, 425</p> <p><i>Theorem 2-5, 2-6</i> 77</p> <p><i>Theorem 5-1</i> 193</p> <p><i>Theorem 5-2, 5-3</i> 195</p> <p><i>Theorem 6-9</i> 256</p> <p><i>Theorem 10-1</i> 409</p> <p><i>Theorem 10-2</i> 410</p> <p><i>Theorem 10-3</i> 419</p> <p><i>Theorem 10-4</i> 421</p> <p><i>Theorem 10-5</i> 426</p> <p><i>Theorem 11-7</i> 479</p> <p><i>Theorem 11-8</i> 483</p> <p><i>Theorem 11-9</i> 485</p> <p><i>Theorem 12-5</i> 511</p> <p><i>Theorem 12-6</i> 512</p> <p><i>Theorem 12-7, 12-8</i> 517</p> <p><i>Theorem 12-9, 12-10</i> 519</p> <p><i>Theorem 12-13, 12-14</i> 529</p> <p>Teacher Wraparound Edition: F 193, 425; GCE 193, 479; HOG 409, 425; ICE 77, 78, 175, 176, 194, 195, 257, 258, 409, 410; ML 174, 193; TT 77, 175, 176, 194, 195, 257, 258, 409, 410</p>

STANDARDS	PAGE REFERENCES
<p>.3 Solve application problems using the appropriate formula or relationships.</p>	<p>Student Edition: 81 #33-#34, 178 #35, 179 #36-#39, 197 #21-#22, 412 #18-#19, 417 #23-#24, 424 #22-#24, 430 #16-#17, 481 #24-#25, 482 #26-#27, 486 #24-#25, 487 #26-#28, 514 #22-#24, 521 #15-#16, 532 #17-#20, 533 #21-#22 <i>Check for Understanding</i> 79 #3, 177 #12, 411 #3, #7, 416 #8, 423 #10, 429 #6, 486 #7, 513 #3, #10, 531 #6 <i>Math In the Workplace</i> 431 <i>Real World Example</i> 414, 421, 512, 530 <i>Quiz</i> 515 #10 Teacher Wraparound Edition: A 179; ICE 414, 484, 530; ML 408, 413, 483; TT 175, 409, 415, 484</p>