

Prentice Hall Mathematics, Course 2 © 2008  
 Correlated to:  
 CSAP Mathematics Assessment Frameworks for Grade 7  
 (June 2006 version)

COLORADO CSAP MATHEMATICS ASSESSMENT FRAMEWORKS	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
<b>Standard 1</b> Students develop number sense* and use numbers and number relationships in problem-solving situations* and communicate the reasoning used in solving these problems.	
<b>Benchmark 1</b> Demonstrate meanings for integers*, rational numbers*, percents, exponents*, square roots* and pi ( $\pi$ ) using physical materials and technology in problem-solving situations*.	
Assessment Objectives	
a Recognize and use equivalent representations of positive rational numbers*.	<b>SE/TE:</b> 95, 96-100, 101, 113 (#27-34), 114 (#43-50), 116-117, 272 (#5-9), 278, 279-283, 284-287, 288, 316-317 (#6-11), 318 (#1-13), 401, 578 (#13-22), 580-583, 586-589, 604-605, 632-633 (#29-37, 49-53), 640-641 (#1-18)
	<b>TE:</b> Additional Examples 97, 281, 285
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
	<b>TECH:</b> 72, 97, 98 & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, <a href="http://www.PHSchool.com">www.PHSchool.com</a> web code are-0206
b Use models* to represent integers.	<b>SE/TE:</b> 31-34, 36-40, 43-47, 51, 62 (#41), 64-65, 102-105, 106-110, 113, 118, 630-631
	<b>TE:</b> Additional Examples 45, 103, 107
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide

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c Use exponents* to indicate how many times a base is used as a factor for positive integers.	<b>SE/TE:</b> 68-7174-79, 110, 112, 114, 115, 434, 484, 632
	<b>TE:</b> Error Prevention, Additional Examples 69, 76
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Benchmark 2</b> Read, write and order integers, rational numbers* and common irrational numbers* such as $\sqrt{2}$ , $\sqrt{5}$ , and $\pi$ .	
Assessment Objectives	
a Read, write, order and compare positive rational numbers* and integers.	<b>SE/TE:</b> 31-35, 42, 53-57, 60, 62 (#23-26, 31), 64-65, 86-94, 95-101, 102-105, 113 (#16-34), 114 (#20-30), 116-117, 166 (#15-18), 206-207, 210-212, 279-287, 316 (#6-11), 321, 322, 530, 632, 640
	<b>TE:</b> Additional Examples 88, 97, 103, 206, 281, 285

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b Locate positive rational numbers* and integers on a number line.	<b>SE/TE:</b> 12, 31-34, 36-42, 43-47, 51, 53, 58, 62 (#29-30), 64-65, 87-90, 91, 102-105, 106-110, 113, 116-117, 118, 281, 287, 318, 484 (#1-4), 630-631
	<b>TE:</b> Additional Examples 39, 40, Error Prevention 103, 107, Additional Examples 45, 103, 107
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Benchmark 3</b> Apply number theory concepts (for example, primes*, factors, multiples) to represent numbers in various ways.	
Assessment Objectives	
a Describe numbers by their characteristics (for example, even, odd, prime*, composite, divisibility, square).	<b>SE/TE:</b> 63 (#5-8),73, 74-79, 80-81, 82-85, 86, 87-90, 118 (#9-12), 114 (#14-17, 24-27),126-129, 130-134, 632-633
	<b>TE:</b> Error Prevention 75, 127, Additional Examples 76, 83, 85, 127, 131
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Benchmark 4</b> Use the relationships among fractions, decimals, and percents, including the concepts of ratio and proportion, in problem-solving situations*.	
Assessment Objectives	
a Use the relationships among fractions, decimals and percents. including the concepts of ratio and proportion, in problem-solving situations*.	<b>SE/TE:</b> 274-277, 284-287, 290-297, 298-303, 304-309, 309-314, 316-317 (#12-33), 318 (#19-37), 354-357, 369, 398, 477, 580-583, 585, 586-589, 640-641
	<b>TE:</b> Error Prevention 280, 285, 385, 581, 587, 599
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide

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<b>Benchmark 5</b> Develop, test, and explain conjectures* about properties of integers and rational numbers*.	
Assessment Objectives	
<i>No objectives assessed at this level.</i>	
<b>Benchmark 6</b> Use number sense* to estimate and justify the reasonableness of solutions to problems involving integers, rational numbers*, and common irrational numbers* such as $\sqrt{2}$ , $\sqrt{5}$ , and $\pi$ .	
Assessment Objectives	
a Estimate, solve and justify the reasonableness of solutions to problems involving positive rational numbers* or integers.	<b>SE/TE:</b> 11, 19, 30-33, 66-67 (# 4), 102-106, 126-127 (# 2b), 160-163, 182-183 (# 1c), 193, 197, 203, 208, 218-201 (#4-7), 236-237 (# 2, 3), 252-255, 286-287, 297, 306, 318-321, 374-377, 455-458, 495, 500, 503-506, 544-548, 568-569 (# 4), 592-595, 624-625 (# 2), 643-646, 676-677 (# 3e)
	<b>TE:</b> 237, 456
	<b>TR:</b> : Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Standard 2</b> Students use algebraic methods* to explore, model*, and describe patterns* and functions* involving numbers, shapes, data, and graphs in problem-solving situations* and communicate the reasoning used in solving these problems.	
<b>Benchmark 1</b> Represent, describe, and analyze patterns* and relationships using tables, graphs, verbal rules, and standard algebraic notation.	
Assessment Objectives	
a Represent, describe, and analyze numeric or geometric patterns* involving common positive rational numbers* or integers* using tables, graphs, rules, or symbols.	<b>SE/TE:</b> 419, 441, 442-445, 446-449, 450(#4-9), 466-467, 478 (#9-12), 480 (#1-8), 517 (#33-35), 527 (# 1), 628, 646-647(#4-6, 22)
	<b>TE:</b> Error Prevention 467
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Benchmark 2</b> Describe patterns* using variables*, expressions, equations, and inequalities in problem-solving situations*.	
Assessment Objectives	
a Solve problems by representing and analyzing patterns* involving positive rational numbers* or integers* using tables, graphs, or rules.	<b>SE/TE:</b> 439-440, 441 (#4), 446-449, 451, 452-455, 456-459, 460, 464, 465, 468-470, 471 (# 23, 26), 478-479 (# 8, 14-15), 480 (#8-13, 21-22), 482-483, 491-494, 495-497, 504-507, 527 (#1), 528-529, 565 (#21-28), 628, 646-647(#1-10)
	<b>TE:</b> Error Prevention 457, 497, Additional Examples 457

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<b>Benchmark 3</b> Analyze functional relationships to explain how a change in one quantity results in a change in another (for example, how the area of a circle changes as the radius increases, or how a person's height changes over time).	
Assessment Objectives	
a Predict and describe how a change in one quantity results in a change in another quantity in a linear relationship.	<b>SE/TE:</b> 168-172, 173, 443-445, 446-449, 468-471 (Examples 1,2), 477, 478 (# 9-15), 480 (# 8-10, 20), 564, 625, 628, 636-637, 626, 628, 646-647
	<b>TE:</b> Error Prevention 173
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
	<b>TECH:</b> 460, 502 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com

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<b>Benchmark 4</b> Distinguish between linear and nonlinear functions* through informal investigations.	
Assessment Objectives	
<i>No objectives assessed at this level.</i>	
<b>Benchmark 5</b> Solve simple linear equations in problem-solving situations* using a variety of methods (informal, formal, and graphical) and a variety of tools (physical materials, calculators, and computers).	
Assessment Objectives	
a Solve simple linear equations in problem-solving situations* using a variety of methods (informal, formal, or graphic).	<b>SE/TE:</b> 174-177, 178, 179, 180-184, 185, 186-190, 192-193, 194-198, 199, 200-204, 219, 220-221 (# 14-31), 304-307, 472-475, 476, 479(# 22-24), 636-637, 646-647
	<b>TE:</b> Error Prevention 181, 187, 193, Additional Examples 175, 181, 187, 195, 201
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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b Translate written words to algebraic expressions/equations and conversely, algebraic expressions/equations to words.	<b>SE/TE:</b> 174-177, 178, 179 (#8-20), 180-184, 185, 186-190, 192-193, 194-198, 199, 200-204, 219, 220-221 (# 14-31), 222, (# 14-31), 304-307, 315, 318 (# 8), 468-471, 472-475, 476, 477, 478 (# 22-24), 480 (#15-18, 26-31), 564, 625, 626, 636-637, 646-647
	<b>TE:</b> Error Prevention 181, 187, 193



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<b>Standard 3</b> Students use data collection and analysis, statistics*, and probability* in problem-solving situations* and communicate the reasoning used in solving these problems.	
<b>Benchmark 1</b> Read and construct displays of data using appropriate techniques (for example, line graphs, circle graphs, scatter plots*, box plots*, stem-and-leaf plots*) and appropriate technology.	
Assessment Objectives	
a Construct a histogram or stem and leaf from a set of given data.	<b>SE/TE:</b> 532-536, 538-542, 544-549, 560-565, 572-573, 576-577, 629, 650-651
	<b>TE:</b> Error Prevention 533, Additional Examples 534, 545
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide

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	<b>TECH:</b> 543 & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: are-1053, are-1153
b Read, interpret and draw conclusions from histograms, circle graphs, stem and leaf plots, and scatter plots*.	<b>SE/TE:</b> 209, 354-358, 359-360, 368 (# 32), 528-529, 532-536, 537, 538-542, 543, 544-547, 548, 553 (# 23), 557, 560-566, 567-571, 572-573, 576-577, 629, 650-651
	<b>TE:</b> Error Prevention 360, 533, Additional Examples 355, 533, 562, 568
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Benchmark 2</b> Display and use measures of central tendency*, such as mean, median and mode and measures of variability*, such as range and quartiles.	
Assessment Objectives	
a Given a display of data (for example, line plot, stem and leaf plot, list of data), determine the mean, mode, median and range.	<b>SE/TE:</b> 53-57, 218 (#52, 53), 473, 530 (#3-6), 545-546, 558-559, 561-565, 571

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<b>Benchmark 3</b> Evaluate arguments that are based on statistical claims.	
Assessment Objectives	
a Evaluate arguments that are based on measures of central tendency* or data displays.	<b>SE/TE:</b> 53-57, 218 (#52, 53), 473, 530 (#3-6), 545-546, 558-559, 561-565, 571
	<b>TE:</b> Error Prevention 54, Additional Examples 55, 473
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Benchmark 4</b> Formulate hypotheses, drawing conclusions, and making convincing arguments based on data analysis.	
Assessment Objectives	
a Analyze data and draw conclusions to predict outcomes based on data displays such as histograms and stem and leaf plots.	<b>SE/TE:</b> 209, 289, 309, 532-536, 539-542, 543, 544-547, 548-549, 561-565, 566 (#3), 567-570, 571-573 (#10-13), 577, 629
	<b>TE:</b> Error Prevention 533, Additional Examples 533-534, 561-562
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Benchmark 5</b> Determine probabilities* through experiments or simulations.	
Assessment Objectives	
<i>No objectives assessed at this level.</i>	
<b>Benchmark 6</b> Make predictions and compare results using both experimental and theoretical probability* drawn from real-world problems*.	
Assessment Objectives	
a Report the probability* of an event in fraction, decimal and percent form.	<b>SE/TE:</b> 580-583, 585, 586-589, 598-602, 603, 604-605, 616-617, 618, 629, 652-653
	<b>TE:</b> Error Prevention 581, 587, 599, Additional Examples 599

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b Determine the probability* of simple independent events (for example, tossing a coin and rolling a die).	<b>SE/TE:</b> 585, 587-589, 596, 597, 605, 616-617, 618, 623-624
	<b>TE:</b> Error Prevention 587, Additional Examples 599
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c Make predictions based on theoretical probability*.	<b>SE/TE:</b> 580-583, 585, 591-597, 598-602, 603, 604-605, 616-617, 618, 629, 652-653

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	<b>TE:</b> Error Prevention 581, 587, 599, Additional Examples 599
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
	<b>TECH:</b> Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: are-0775, are-1201, are-1202, are-1204
<b>Benchmark 7</b> Using counting strategies to determine all the possible outcomes from an experiment (for example, the number of ways students can line up to have their picture taken).	
Assessment Objectives	
a Determine the number of possible outcomes from a given event using a variety of strategies, such as: tree diagrams, or organized lists.	<b>SE/TE:</b> 591-595, 600-602, 606-609, 610-613, 615
	<b>TE:</b> 593, 607
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide

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	<b>TECH:</b> 607, 613 & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com
<b>Standard 4</b> Students use geometric concepts, properties, and relationships in problem-solving situations* and communicate the reasoning used in solving these problems.	
<b>Benchmark 1</b> Construct two-and three-dimensional models* using a variety of materials and tools.	
Assessment Objectives	
<i>No objectives assessed at this level.</i>	
<b>Benchmark 2</b> Describe, analyze and reason informally about the properties (for example, parallelism, perpendicularity, congruence*) of two- and three-dimensional figures.	
Assessment Objectives	
a Describe, analyze and reason informally about the attributes of two- and three-dimensional shapes (for example, angles, sides, edges, faces, vertices).	<b>SE/TE:</b> 327 (#24-28), 336-339, 340-345, 346-349, 361-364, 365, 367 (#22, 23), 370-371
	<b>TE:</b> 337, 341, 344
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Benchmark 3</b> Apply the concept of ratio, proportion and similarity* in problem-solving situations*	
Assessment Objectives	
a Identify and compare similar shapes using ratio, proportion, or scale factor.	<b>SE/TE:</b> 251, 252-257, 258, 259-263, 264, 267 (#25-28), 268 (#26, 33), 270-271, 319 (#15)
	<b>TE:</b> 262, 270
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Benchmark 4</b> Solve problems using coordinate geometry*.	
Assessment Objectives	
a Construct a coordinate graph and plot ordered integer* pairs in all four quadrants.	<b>SE/TE:</b> 486-490, 524, 530 (#11-14), 575
	<b>TE:</b> 488
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide



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<b>Benchmark 5</b> Solving problems involving perimeter and area in two dimensions, and involving surface area and volume* in three dimensions.	
Assessment Objectives	
a Solve problems involving the circumference of a circle (formulas not provided).	<b>SE/TE:</b> 393, 394-397, 427, 429 (#11-13), 430 (#7, 8), 644-645 (#11-14)
	<b>TE:</b> 395, 427
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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b Solve problems involving the areas of circles, triangles, and parallelograms (formulas not provided).	<b>SE/TE:</b> 374-378, 379, 380-383, 384-387, 388-393, 398-399, 427, 428-429 (#8-13), 430 (#1-8), 432-433, 623-624, 627, 644-645
	<b>TE:</b> 375, 385, 429

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	<b>TECH:</b> Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code are-0853, are-0801, 0802, 0803, 0804, 0805
c Solve problems involving the surface area of rectangular prisms (formulas not provided).	<b>SE/TE:</b> 409, 410-413, 414-418, 419, 420, 426, 429 (#19-21), 430 (#31, 32), 644 (#24-26, 36)
	<b>TE:</b> 415, 418, 419
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Benchmark 6</b> Transforming geometric figures using reflections*, translations*, and rotations* to explore congruence*.	
Assessment Objectives	
a Use reflections*, translations*, and/or rotations*, to determine congruence* between figures.	<b>SE/TE:</b> 509, 510-513, 514-517, 518, 519-522, 523, 524-525 (#19--24), 526 (#28-32), 527 (#7), 648-649
	<b>TE:</b> 511, 515, 520
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
	<b>TECH:</b> Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code 1005, 1006, 1007
<b>Standard 5</b> Students use a variety of tools and techniques to measure, apply the results in problem-solving situations*, and communicate the reasoning used in solving these problems.	
<b>Benchmark 1</b> Estimate, use and describe measures of distance, perimeter, area, volume*, capacity*, weight, mass, and angle comparison.	
Assessment Objectives	
a Estimate the area of irregular shapes, angle measurement, or weight of common objects.	<b>SE/TE:</b> 26-30, 148-153, 154-158, 159, 161, 236, 329, 330-334, 335, 336-339, 374-379, 383, 386-387, 389, 391, 392-393, 398-399, 667-669
	<b>TE:</b> 149, 152

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<b>Benchmark 2</b> Estimate, make, and use direct and indirect measurements to describe and make comparisons.	
Assessment Objectives	
a Estimate, make and use direct and indirect measurements to describe and make comparisons.	<b>SE/TE:</b> 154-157, 161-162, 259-263, 264, 267 (#27, 28), 268 (#33), 270-271, 319 (#15), 329-334, 337-339, 372, 397, 427, 484, 624
	<b>TE:</b> 329
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Benchmark 3</b> Read and interpret various scales including those based on number lines, graphs, and maps.	
Assessment Objectives	
a Read and interpret scales on number lines, graphs and maps (for example, given a map and a scale, determine the distance between two points on the map).	<b>SE/TE:</b> 259-263, 264, 267 (#27, 28), 268 (#33), 270-271, 319 (#15)
	<b>TE:</b> 262, 270
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
	<b>TECH:</b> Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com
b Select the appropriate scale for a given problem (for example, using the appropriate scale when setting up a graph or intervals on a histogram).	<b>SE/TE:</b> 259-263, 264, 267 (#27, 28), 268 (#33), 270-271, 319 (#15), 533-536, 538-543, 560-564
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide

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<b>Benchmark 4</b> Develop and use formulas and procedures to solve problems involving measurement.	
Assessment Objectives	
a Develop and use procedures or formulas to solve problems involving area of polygons (for example, trapezoids, regular hexagons, regular octagons).	<b>SE/TE:</b> 374-378, 379, 380-383, 384-387, 388-393, 398-399, 427, 428-429 (#8-13), 430 (#1-8)
	<b>TE:</b> 376, 385, 429
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Benchmark 5</b> Describe how a change in an object's linear dimensions affects its perimeter, area, and volume*.	
Assessment Objectives	
a Describe how a change in an object's linear dimensions affects its perimeter and area (for example, how a change in the radius or diameter will affect the circumference and area of a circle).	<b>SE/TE:</b> 383 (#23), 387 (#27), 394-397, 645 (#29)

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<b>Benchmark 6</b> Select and use appropriate units and tools to measure to the degree of accuracy required in a particular problem-solving situation*.	
Assessment Objectives	
a Select and use appropriate units and tools to measure to the degree of accuracy required in a particular problemsolving situation* (for example, reconstruct a replica of a given figure).	<b>SE/TE:</b> 154-157, 161-162, 260, 262, 263, 329-334, 337-339, 372, 397, 427, 484, 624
	<b>TE:</b> 329
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Standard 6</b> Students link concepts and procedures as they develop and use computational techniques, including estimation, mental arithmetic*, paper-and-pencil, calculators, and computers, in problem-solving situations* and communicate the reasoning used in solving these problems.	
<b>Benchmark 1</b> Use models* to explain how ratios, proportions, and percents can be used to solve real-world problems*.	
Assessment Objectives	
a Use concrete materials or pictures to explain how ratios, proportion, and percents can be used to solve real world problems*.	<b>SE/TE:</b> 259-263, 264, 267 (#27, 28), 268 (#33), 270-271, 274-277, 284-287, 290-297, 298-303, 304-309, 309-314, 316-317 (#12-33), 318 (#19-37), 319 (#15), 354-357, 369, 398, 477, 640-641
	<b>TE:</b> 262, 270, 280, 385
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Benchmark 2</b> Construct, use and explain procedures to compute and estimate with whole numbers, fractions, decimals, and integers*.	
Assessment Objectives	
a Apply order of operations (including exponents* with positive rational numbers*.	<b>SE/TE:</b> 48-51, 52, 60-61 (#27-30), 62 (#17-18), 68-71, 112-113 (#), 114 (#6-9), 166 (#9-14), 169-172, 434 (#1-8), 630-631 (#37- 44)
	<b>TE:</b> Error Prevention 49



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b Add, subtract, multiply, and divide positive rational numbers* or integers*.*	<b>SE/TE:</b> 36-37, 38-42, 43, 44-47, 48-51, 52, 60-61, 62, 64-65, 66 (#11-17), 68-71, 118 (#5-8), 166 (#5-14)630-631
	<b>TE:</b> Error Prevention 49, Additional Examples 39, 45, 49, 69
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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c Explain strategies to add, subtract and multiply positive rational numbers*.	<b>SE/TE:</b> 36-37 (#13), 38-42 (#37), 43, 44-47 (#34, 36), 48-50(Check Understanding # 3), 51 (#33), 57 (#31), 62 (#40), 63 (#5-8),64-65, 66 (#11-17), 68-71, 118 (#5-8), 166 (#5-14)630-631
	<b>TE:</b> Error Prevention 49, Additional Examples 39, 49
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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<b>Benchmark 3</b> Develop, apply and explain a variety of different estimation strategies in problem-solving situations*, and explain why an estimate may be acceptable in place of an exact answer.	
Assessment Objectives	
a Explain why an estimate may be acceptable in place of an exact answer.	<b>SE/TE:</b> 11, 19, 30-33, 66-67 (# 4), 126-127 (# 2b), 160-163, 182-183 (# 1c), 193, 197, 203, 208, 236-237 (# 2, 3), 252-255, 286-287, 495, 500, 503-506, 544-548, 568-569 (# 4), 592-595, 624-625 (# 2), 643-646, 676-677 (# 3e)
	<b>TE:</b> 237, 456
	<b>TR:</b> : Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide

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b Solve problems using estimation and justify choice of techniques.	<b>SE/TE:</b> 11, 19, 30-33, 66-67 (# 4), 102-106, 126-127 (# 2b), 160-163, 182-183 (# 1c), 193, 197, 203, 208, 218-201 (#4-7), 236-237 (# 2, 3), 252-255, 286-287, 297, 306, 318-321, 374-377, 455-458, 495, 500, 503-506, 544-548, 568-569 (# 4), 592-595, 624-625 (# 2), 643-646, 676-677 (# 3e)
	<b>TE:</b> 237, 456
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<b>Benchmark 4</b> Select and use appropriate algorithms* for computing with commonly used fractions and decimals, percents, and integers* in problem-solving situations* and determining whether the results are reasonable.	
Assessment Objectives	
a Determine what information is necessary or missing in a problem-solving situation*.	<b>SE/TE:</b> xxxiv-xl, 22, 70, 128, 138, 189, 230, 240, 300, 348, 356, 363, 439, 444, 458, 563, 569, 588, 601, 608

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	<b>TE:</b> 164-165, 270-271, 432-433
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
	<b>TECH:</b> Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com
b Solve problems involving positive rational numbers* and/or integers*.	<b>SE/TE:</b> 4-12, 13-18, 19-25, 27-30, 36-42, 48-52, 60-66, 118, 125-129, 130-134, 135-139, 140-147, 160-166, 199-204, 239, 322
	<b>TE:</b> Error Prevention 25, 147, 193, 250, 303, 360, 399, 467, 497
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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c Create a situation that matches a given number sentence involving positive rational numbers* or integers*, excluding division of fractions and decimals.	<b>SE/TE:</b> 174-177, 178, 180-184, 186-190, 191, 192-193, 194-198, 200-204, 219, 222 (#7-24)
	<b>TE:</b> Error Prevention 181, 187, 193, Additional Examples 175, 181, 187, 195, 201
	<b>TR:</b> Practice, Adapted Practice, Reteaching, Enrichment, Checkpoint Quizzes, Alternative Assessment, Chapter Projects, Chapter Tests, Cumulative Review, Assessment Resources, Guided Problem Solving, Activity Labs, Daily Puzzles, Vocabulary and Study Skills Worksheet, Daily Notetaking Guide
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d Justify the reasonableness of a solution in a problem-solving situation*.	<b>SE/TE:</b> 4-9, 14, 21, 24-29, 63-65, 92, 116-117, 121-123, 130-131, 137, 146-147, 158, 164-165, 178, 192-193, 201, 224-225, 233, 243, 264, 270-272, 277, 280-289, 293, 299, 302-306, 329, 369, 374-377, 423, 428, 446, 462, 528-529, 554-556, 576-577, 628-629, 644-645
	<b>TE:</b> Error Prevention 158, 193, 233, 280, 299, 555, Additional Examples 21, 92, 121, 131, 137, 201, 233, 423, 555
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