



Contemporary Mathematics in Context

A Unified Approach
Course 2
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STANDARDS	PAGE REFERENCES
1. NUMBER OPERATIONS AND CONCEPTS	
Students use numbers, number sense, and number relationships in a problem-solving situation.	
1. Students represent and apply real numbers in a variety of forms.	Student Edition: 13, 30, 40 #11, 43 #4-#6, 47 #3a, 238, 239 #1, 300-302, 305 #1, 306 #2, 308 #1
2. Students apply the structure and properties of the real number system.	Student Edition: 42 #3, 43 #5, 44 #7, 45, 50 #5c, 61 #5b, 278-280
3. Students explain their choice of estimation and problem-solving strategies and justify results of solutions in problem-solving situations involving real numbers.	Student Edition: 213 #d, 278 #1, 410 #5 <i>On Your Own</i> 191 Teacher's Guide: I T278
4. Students use proportional reasoning to solve problems.	Student Edition: 250-252, 256-258, 259-264
2. GEOMETRY	
Students apply geometric concepts, properties, and relationships in a problem-solving situation	
1. Students use transformations, congruency, symmetry, similarity, perpendicularity, parallelism, and the Pythagorean Theorem to solve problems.	Student Edition: 109-110, 111-116, 120-125, 126-129, 133-137, 138-141, 144-148, 149, 150-154, 157-164

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2. Students communicate, using mathematical language, to: <ul style="list-style-type: none"> • Interpret, represent, or create geometric figures; • Draw or build figures from a mathematical description; • Analyze properties and determine attributes of 2- and 3-dimensional objects. 	Student Edition: 81-84, 89 #4, 99-100, 122 #2, 123 #5, 124 #1-#2, 129 #6, 152-153 #6, 164 #5 <i>Think About This Situation</i> 149 Teacher’s Guide: I T81
3. Students communicate the reasoning used in identifying geometric relationships in problem-solving situations.	Student Edition: 22 #3, 56 #3, 71 #3, 72 #2, 98 #3, 108 #4, 121 #4, 126 #1c, 127 #3, 395 #1, 410 #5
4. Students solve problems involving the coordinate plane such as the distance between two points, the midpoint, and slope.	Student Edition: 81-84, 89 #4, 91 #2-#3, 92 #5, 94 #4-#5, 96 #3, 97-101, 102 #2, 108 #3 <i>Checkpoint</i> 90
5. Students connect geometry with other mathematical topics.	Student Edition: 429 #4 <i>On Your Own</i> 238
3. MEASUREMENT	
Students use a variety of tools and techniques of measurement in a problem-solving situation.	
1. Students apply estimation and measurement using the appropriate methods and units to solve problems involving length, weight/mass, area, surface area, volume, and angle measure.	Student Edition: 213, 410 #2, 429 #4 <i>On Your Own</i> 238
2. Students demonstrate an understanding of both metric and U.S. customary systems. Students are able to convert within each system.	This standard can be met in Glencoe’s <i>Contemporary Mathematics Course 3</i> © 2003. Student Edition: 489-490
3. Students identify and apply scale, ratios, and proportions in solving measurement problems.	Student Edition: 395-399, 400-404, 406-411, 419-423 Teacher’s Guide: CMT T399
4. Students solve problems of angle measure including those involving polygons or parallel lines cut by a transversal.	Student Edition: 419-423, 428 #3, 430 #4
5. Students solve indirect measurement problems.	Student Edition: 395-399, 400-404, 406-411, 419-423 Teacher’s Guide: CMT T399

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4. ALGEBRA	
Students use algebraic methods to investigate, model, and interpret patterns and functions involving numbers, shapes, data, and graphs in a problem-solving situation.	
1. Students use algebraic concepts, symbols, and skills to represent and solve real-world problems.	Student Edition: 59-62, 63-65, 66 #1, 67 #2-#3, 71 #2-#3, 73 #3, 77 #3, 99, 100 #9 <i>Checkpoint 10</i>
2. Students write, model, and evaluate expressions, functions, equations, and inequalities.	Student Edition: 59-62, 63-65, 66 #1, 71 #2, 73 #3, 92 #6, 95 #4, 103 #4, 179 #1, 184 #1
3. Students graph linear equations and interpret the results in solving algebraic problems.	Student Edition: 82 #1d, 89 #4, 91 #2, 97-101, 102-108, 246 #2
4. Students solve, graph, or interpret systems of linear equations.	Student Edition: 59-62, 63-65, 66 #1, 67 #2-#3, 71 #2-#3, 73 #3, 77 #3, 99, 100 #9 <i>Checkpoint 10</i>
5. Students connect algebra with other mathematical topics.	Student Edition: 429 #4 <i>On Your Own 238</i>
5. DATA ANALYSIS AND PROBABILITY	
Students use data analysis and probability to analyze given situations and the results of experiments.	
1. Students apply knowledge of mean, median, mode, and range to interpret and evaluate information and data.	Student Edition: 109, 462 #1a
2. Students draw reasonable inferences from statistical data and/or correlation/best fit line to predict outcomes.	Student Edition: 256, 261 #3, 286 #5, 379 #1
3. Students communicate about the likelihood of events using concepts from probability. <ul style="list-style-type: none"> • sample space • evaluate simple probabilities • evaluate experimental vs. theoretical 	Student Edition: 463, 472-476, 485-488
4. Students determine, collect, organize, and analyze relevant data needed to make conclusions.	Student Edition: 457-459, 460-461, 462-464, 466 #2, 468 #1, 469 #3, 511 #2c, 516 #1d, 519 #2