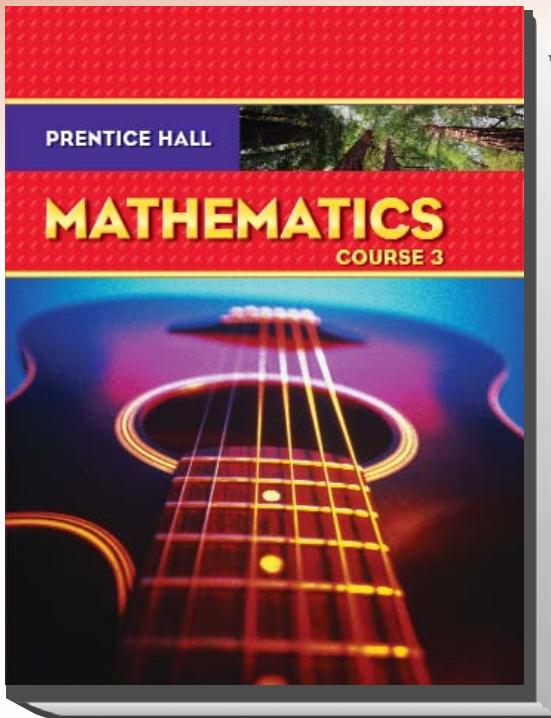


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C O R R E L A T E D T O

Hawaii HCSP III Benchmarks

Grade 8

PEARSON

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Correlated to:
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(Grade 8)

HAWAII HCSP III BENCHMARKS	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Content Area: Math	
Grade/Course: 8	
Strand: Numbers and Operations	
Standard 1: Numbers and Operations: NUMBER SENSE: Understand numbers, ways of representing numbers, relationships among numbers, and number systems	
Topic: Numbers and Number Systems	
Benchmark	
MA.8.1.1 Identify situations represented by square roots and cube roots	SE/TE: 106-107, 109 (#32-34), 110 (#47), 113 (Example 2), 114 (#13), 115 (#15, 20-21, 25), 117 (#3, 6), 118-119, 120 (#13-14), 121 (#18, 20, 22), 123 (#9), 153 (#17), 154 (#17), 163 (#31)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 3-1, 3-2, 3-3; Vocabulary and Study Skills Worksheets (English and Spanish): 3-1, 3-3; Checkpoint Quiz: 3-3
MA.8.1.2 Compare and order rational numbers and square roots	SE/TE: 2 (#1-4), 11 (Example 2), 12 (#10-14, 20), 13 (#32), 45 (#15-19), 46 (#25-28), 50C (Skills Trace 2-3 and 2-4), 50 (#5-8), 62-65, 69 (#42, 44-46), 70 (#5), 107 (Example 2), 109 (#14-21), 121 (#23, 25-28), 123 (#1), 144, (#31), 212, 213 (#35), 227 (#29-31), 254 (#1-4), 629
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 2-3; Vocabulary and Study Skills Worksheets (English and Spanish): 2-3
MA.8.1.3 Use ratios and proportions to represent the relationship between two quantities	SE/TE: 161-164, 166-206, 208 (#12-17), 218-222, 238 (#28-31), 246-250, 253, 254 (#13-17), 255 (#2), 352 (#7-10), 398-401, 406 (#24), 410 (#10-13), 451 (Example 2 Step 2), 452 (#8-10)
SE = Student Edition - TE = Teacher Edition - TR = Teaching Resources	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 4-1, 4-2, 4-3, 4-4, 4-5, 4-6, 4-7, 5-3, 5-8, 8-9; Vocabulary and Study Skills Worksheets (English and Spanish): 4-1, 4-3, 4-4, 4-5, 4-7, 5-3, 5-8, 8-9; Checkpoint Quiz: 4-2, 4-4

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HAWAII HCSP III BENCHMARKS	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Strand: Numbers and Operations	
Standard 2: Numbers and Operations: OPERATION SENSE: Understand the meaning of operations and how they relate to each other	
Topic: Operations	
Benchmark	
MA.8.2.1 Apply the order of operations when calculating with rational numbers	SE/TE: 5 (Key Concepts), 6, 7 (#12-14), 8 (#30), 44 (#9-11), 46, 86 (Key Concepts), 87, 88 (#25-32), 89 (#33-38, 44), 91 (Checkpoint Quiz #5-8, 10-11), 99 (#31-33), 100, (#35-44, 56-57)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 1-1, 2-7; Vocabulary and Study Skills Worksheets (English and Spanish): 1-1; Checkpoint Quiz: 2-7
MA.8.2.2 Demonstrate the inverse relationship between square numbers and square roots, and cubes and cubed roots	SE/TE: 106-110, 116-117, 152 (Lesson 3-1), 154 (#1-6)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 3-1; Vocabulary and Study Skills Worksheets (English and Spanish): 3-1
Strand: Numbers and Operations	
Standard 3: Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation	
Topic: Computational Fluency	
Benchmark	
MA.8.3.1 Add, subtract, multiply, and divide numbers with whole number exponents	SE/TE: 86-90, 91 (Checkpoint Quiz #5-8, 11), 99 (#31-33), 100 (#35-44), 571-573, 580 (#1, 4-6), 581-585, 591, 592 (#13, 15, 17, 23-27)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 2-7, 12-3, 12-5; Vocabulary and Study Skills Worksheets (English and Spanish): 12-3, 12-5; Checkpoint Quiz: 2-7

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HAWAII HCSP III BENCHMARKS	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Topic: Estimation	
Benchmark	
MA.8.3.2 Estimate a reasonable range (i.e., upper and lower limit) for the solution to a problem	SE/TE: 24 (Is the answer reasonable?), 34 (Example 2), 35 (#29), 68 (#29), 73 (Example 3), 80, 116 (Is the answer reasonable?), 161 (Example 3), 167 (Example 2), 175 (Example 2), 179 (#1), 198 (Example 2), 220 (Example 4), 224, (Example 1), 230 (Example 1), 272 (Example 2), 279 (Is the answer reasonable?), 289 (Example 1), 370 (Example 3), 381 (Example 2), 385 (Is the answer reasonable?), 394 (Example 2), 454 (Is the answer reasonable?)
Strand: Measurement	
Standard 4: Measurement: FLUENCY WITH MEASUREMENT: Understand attributes, units, and systems of units in measurement; and develop and use techniques, tools, and formulas for measuring	
Topic: Measurement Attributes and Units	
Benchmark	
MA.8.4.1 Select and use appropriate units to measure the surface area and volume of solids	SE/TE: 368-372, 373 (Checkpoint Quiz #5) 374-378, 380-384, 386 (#3), 388-401, 403, 405, 461
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 8-4, 8-5, 8-6, 8-7, 8-8, 8-9; Vocabulary and Study Skills Worksheets (English and Spanish): 8-5, 8-7, 8-9; Checkpoint Quiz: 8-4, 8-7
Topic: Measurement Tools and Techniques	
Benchmark	
MA.8.4.2 Express rates of change as a ratio of two different measures, where units are included in the ratio, and use the derived rate to solve problems	SE/TE: 527, 530 (Example 3), 531 (#10)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 11-4; Vocabulary and Study Skills Worksheets (English and Spanish): 11-4

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HAWAII HCSP III BENCHMARKS	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Topic: Measurement Formulas	
Benchmark	
MA.8.4.3 Use ratios and proportions to solve measurement problems	SE/TE: 160-164, 166-171, 175, 177 (#21-26, 31), 178 (#35, 41), 181-186, 192-206, 397-401, 405 (#22-24)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 4-1, 4-2, 4-3, 4-6, 4-7, 8-9; Vocabulary and Study Skills Worksheets (English and Spanish): 4-1, 4-3, 4-7; Checkpoint Quiz: 4-2
MA.8.4.4 Use formulas to determine the surface area and volume of selected prisms, cylinders, and pyramids	SE/TE: 352C, 352D, 368-378, 380-384, 392, 405 (#15-20)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 8-4, 8-5; Vocabulary and Study Skills Worksheets (English and Spanish): 8-5; Checkpoint Quiz: 8-4
Strand: Geometry and Spatial Sense	
Standard 5: Geometry and Spatial Sense: PROPERTIES AND RELATIONSHIPS: Analyze properties of objects and relationships among the properties	
Topic: Geometric Shapes and Their Properties and Relationships	
Benchmark	
MA.8.5.1 Apply the Pythagorean theorem to solve problems involving right triangles	SE/TE: 111, 112-115, 117 (#3, 6), 118-123, 126 (#23-24), 153 (#14-17), 154 (#13-17), 155 (#3, 5), 158 (#16-18)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 3-2, 3-3; Vocabulary and Study Skills Worksheets (English and Spanish): 3-3; Checkpoint Quiz: 3-3

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HAWAII HCSP III BENCHMARKS	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Strand: Geometry and Spatial Sense	
Standard 6: Geometry and Spatial Sense: TRANSFORMATIONS AND SYMMETRY: Use transformations and symmetry to analyze mathematical situations	
Topic: Transformation	
Benchmark	
MA.8.6.1 Perform a transformation (reflection, rotation, translation) when given a figure and necessary parameters	SE/TE: 136-139, 140 (#6-7), 141-149, 153 (#28-30), 154 (#29-35, 37), 155 (#4, 6)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 3-6, 3-7, 3-8; Vocabulary and Study Skills Worksheets (English and Spanish): 3-6, 3-8; Checkpoint Quiz: 3-6
MA.8.6.2 Describe the size, position, and orientation of shapes under transformations and compositions of transformations	SE/TE: 137-139, 140 (#7), 187-191, 203 (#28), 204 (#35)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 3-6, 4-5; Vocabulary and Study Skills Worksheets (English and Spanish): 3-6, 4-5; Checkpoint Quiz: 3-6
Strand: Geometry and Spatial Sense	
Standard 7: Geometry and Spatial Sense: VISUAL AND SPATIAL SENSE: Use visualization and spatial reasoning to solve problems both within and outside of mathematics	
Topic: Visualization and Spatial Reasoning	
Benchmark	
MA.8.7.1 Use two-dimensional representations of pyramids, prisms, and cylinders to solve problems involving these figures	SE/TE: 352C, 352D, 358-364, 373, 387, 404 (#9-14), 406 (#7-14), 461
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles; Activity Labs: 8-2

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HAWAII HCSP III BENCHMARKS	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Strand: Geometry and Spatial Sense	
Standard 8: Geometry and Spatial Sense: REPRESENTATIONAL SYSTEMS: Select and use different representational systems, including coordinate geometry	
Topic: Coordinate Geometry	
Benchmark	
MA.8.8.1 Use coordinate geometry to represent transformations in the coordinate plane	SE/TE: 136-139, 140-144, 147-149, 153
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 3-6, 3-7, 3-8; Vocabulary and Study Skills Worksheets (English and Spanish): 3-6, 3-8; Checkpoint Quiz: 3-6
Strand: Patterns, Functions, and Algebra	
Standard 9: Patterns, Functions, and Algebra: PATTERNS AND FUNCTIONAL RELATIONSHIPS: Understand various types of patterns and functional relationships	
Topic: Patterns	
Benchmark	
MA.8.9.1 Represent a variety of patterns (including recursive patterns) with tables, graphs (including graphing technology when available), words, and when possible, symbolic rules	SE/TE: 91 (2-8a Activity Lab #1-2), 130-134, 397 (#3-5), 443-448, 449 (#4), 460, 463 (#12), 512-517
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 3-5, 9-7, 11-1; Vocabulary and Study Skills Worksheets (English and Spanish): 9-7, 11-1; Checkpoint Quiz: 9-7
Topic: Functions	
Benchmark	
MA.8.9.2 Use linear relationships with two variables to solve problems	SE/TE: 131-134, 153 (#24-27), 534-538, 540-545, 553
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 3-5, 11-5; Vocabulary and Study Skills Worksheets (English and Spanish): 11-5; Checkpoint Quiz: 11-5

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HAWAII HCSP III BENCHMARKS	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Topic: Functions	
Benchmark	
MA.8.9.3 Identify functions as linear or nonlinear and contrast their properties from tables, graphs (including graphing technology when available), or equations	SE/TE: 523-526, 533-538, 540-549, 553
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 11-3, 11-6, 11-7; Vocabulary and Study Skills Worksheets (English and Spanish): 11-3, 11-7
Strand: Patterns, Functions, and Algebra	
Standard 10: Patterns, Functions, and Algebra: SYMBOLIC REPRESENTATION: Use symbolic forms to represent, model, and analyze mathematical situations	
Topic: Numeric and Algebraic Representations	
Benchmark	
MA.8.10.1 Translate among tables, graphs (including graphing technology when available), and equations involving linear relationships	SE/TE: 130-134, 153 (#24-27), 154 (#1-20), 523-527, 533-538, 540-545, 553
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 3-5, 11-3, 11-5, 11-6; Vocabulary and Study Skills Worksheets (English and Spanish): 11-3, 11-5; Checkpoint Quiz: 11-5
MA.8.10.2 Solve linear equations and inequalities with two variables using algebraic methods, manipulatives, or models	<i>Opportunities to address this standard can be found on the following pages:</i> SE/TE: 131-134, 153 (Lesson 3-5), 510 (#12-14)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 3-5
MA.8.10.3 Use tables and graphs to represent and compare linear relationships	SE/TE: 130-134, 527, 534-537, 544, 553 (#26-29)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 3-5, 11-5; Vocabulary and Study Skills Worksheets (English and Spanish): 11-5; Checkpoint Quiz: 11-5

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Topic: Rates of Change	
Benchmark	
MA.8.10.4 Use the slope of a line to describe a constant rate of change	SE/TE: 527-531, 534-539, 553 (#28-29)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 11-4, 11-5; Vocabulary and Study Skills Worksheets (English and Spanish): 11-4, 11-5; Checkpoint Quiz: 11-5
Strand: Data Analysis, Statistics, and Probability	
Standard 11: Data Analysis, Statistics, and Probability: FLUENCY WITH DATA: Pose questions and collect, organize, and represent data to answer those questions	
Topic: Data Collection and Representation	
Benchmark	
MA.8.11.1 Design a study that compares two samples, collect data, and select the appropriate representation (e.g., double bar graph, back-to-back stem and leaf plot, parallel box and whisker plots, scatter plot) to compare the sets of data	<i>Opportunities to address this standard can be found on the following pages:</i> SE/TE: 418-423, 433-449, 463 (#10-12), 480-483
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 9-2, 9-5, 9-6, 9-7, 10-3; Vocabulary and Study Skills Worksheets (English and Spanish): 9-5, 9-7, 10-3; Checkpoint Quiz: 9-7
Topic: Data Collection and Representation	
Benchmark	
MA.8.11.2 Judge the validity of data based on the data collection method	SE/TE: 480-483, 505 (Lesson 10-3)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 10-3; Vocabulary and Study Skills Worksheets (English and Spanish): 10-3

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Strand: Data Analysis, Statistics, and Probability	
Standard 12: Data Analysis, Statistics, and Probability: STATISTICS: Interpret data using methods of exploratory data analysis	
Topic: Data Interpretation	
Benchmark	
MA.8.12.1 Recognize situations appropriate for scatter plots	SE/TE: 443-448, 449 (#4), 456-460, 463 (#12-13), 464 (#15)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 9-7, 9-9; Vocabulary and Study Skills Worksheets (English and Spanish): 9-7, 9-9; Checkpoint Quiz: 9-7
Topic: Data Interpretation	
Benchmark	
MA.8.12.2 Analyze different representations of the same data to describe how representations can be used to skew a person's interpretation of the data	SE/TE: 223, 427, 428-432, 463 (#9)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 9-4; Checkpoint Quiz: 9-4
Strand: Data Analysis, Statistics, and Probability	
Standard 13: Data Analysis, Statistics, and Probability: DATA ANALYSIS: Develop and evaluate inferences, predictions, and arguments that are based on data	
Topic: Predictions and Inferences	
Benchmark	
MA.8.13.1 Make conjectures about possible relationships between two characteristics of a sample based on interpretations of scatter plots	SE/TE: 443-448, 449 (#4), 456-460, 463 (#12-13), 464 (#15)
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 9-7, 9-9; Vocabulary and Study Skills Worksheets (English and Spanish): 9-7, 9-9; Checkpoint Quiz: 9-7

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Strand: Data Analysis, Statistics, and Probability	
Standard 14: Data Analysis, Statistics, and Probability: PROBABILITY: Understand and apply basic notions of chance and probability	
Topic: Probability	
Benchmark	
MA.8.14.1 Judge the validity of conjectures that are based on experiments or simulations	<i>Opportunities to address this standard can be found on the following pages:</i> SE/TE: 470-479, 484, 504
	TR: Practice (English and Spanish), Adapted Practice, Guided Problem Solving, Reteaching, Enrichment, Daily Notetaking Guide, Adapted Daily Notetaking Guide, Daily Puzzles, Activity Labs: 10-1, 10-2; Vocabulary and Study Skills Worksheets (English and Spanish): 10-1; Checkpoint Quiz: 10-2