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correlated to

Wisconsin's

Model Academic Standards for

Mathematics

Grade 8



EDUCATION GROUP



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YOUR WISCONSIN GREAT SOURCE REPRESENTATIVE

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Wisconsin's Model Academic Standards for Mathematics Grade 8

Standard A: Mathematical Processes

Students in Wisconsin will draw on a broad body of mathematical knowledge and apply a variety of mathematical skills and strategies, including reasoning, oral and written communication, and the use of appropriate technology, when solving mathematical, real-world* and non-routine* problems.

Performance Standards, Grade 8	ACCESS Math
<p>By the end of grade eight, students will:</p> <p>A.8.1 Use reasoning abilities to</p> <ul style="list-style-type: none"> evaluate information: 	<p>Student Book: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p> <p>Teacher's Edition: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p>
<ul style="list-style-type: none"> perceive patterns 	<p>Student Book: 45, 46, 58-59, 207, 208, 209, 266</p> <p>Teacher's Edition: 45, 58, 59, 297, 209</p>
<ul style="list-style-type: none"> identify relationships 	<p>Student Book: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p> <p>Teacher's Edition: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p>
<ul style="list-style-type: none"> evaluate strategies 	<p>Student Book: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p> <p>Teacher's Edition: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p>

Performance Standards, Grade 8	ACCESS Math
<ul style="list-style-type: none"> justify statements 	<p>Student Book: 19, 24, 29, 34, 41, 46, 51, 56, 63, 68, 73, 78, 85, 90, 95, 100, 107, 112, 117, 122, 127, 132, 139, 144, 149, 154, 161, 166, 171, 176, 183, 188, 193, 198, 203, 208, 215, 220, 225, 230, 237, 242, 247, 252, 259, 264, 269, 274, 281, 282, 286</p> <p>Teacher's Edition: 282</p>
<ul style="list-style-type: none"> test reasonableness of results 	<p>Student Book: 36, 58, 80, 102, 134, 156, 178, 210, 232, 254, 276, 288</p> <p>Teacher's Edition: 36, 58, 80, 102, 134, 156, 178, 210, 232, 254, 276, 288</p>
<ul style="list-style-type: none"> defend work 	<p>Student Book: 19, 24, 29, 34, 41, 46, 51, 56, 63, 68, 73, 78, 85, 90, 95, 100, 107, 112, 117, 122, 127, 132, 139, 144, 149, 154, 161, 166, 171, 176, 183, 188, 193, 198, 203, 208, 215, 220, 225, 230, 237, 242, 247, 252, 259, 264, 269, 274, 281, 282, 286</p> <p>Teacher's Edition: 282</p>
<p>A.8.2 Communicate logical arguments clearly to show why a result makes sense</p>	<p>Student Book: 19, 24, 29, 34, 41, 46, 51, 56, 63, 68, 73, 78, 85, 90, 95, 100, 107, 112, 117, 122, 127, 132, 139, 144, 149, 154, 161, 166, 171, 176, 183, 188, 193, 198, 203, 208, 215, 220, 225, 230, 237, 242, 247, 252, 259, 264, 269, 274, 281, 282, 286</p> <p>Teacher's Edition: 282</p>
<p>A.8.3 Analyze non-routine problems by modeling, illustrating, guessing, simplifying, generalizing, shifting to another point of view, etc</p>	<p>Student Book: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p> <p>Teacher's Edition: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p>
<p>A.8.4 Develop effective oral and written presentations that include</p> <ul style="list-style-type: none"> the conventions of mathematical discourse (e.g., symbols, definitions, labeled drawings) 	<p>Student Book: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p> <p>Teacher's Edition: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p>

Performance Standards, Grade 8	ACCESS Math
<ul style="list-style-type: none"> mathematical language 	<p>Student Book: 19, 24, 29, 34, 41, 46, 51, 56, 63, 68, 73, 78, 85, 90, 95, 100, 107, 112, 117, 122, 127, 132, 139, 144, 149, 154, 161, 166, 171, 176, 183, 188, 193, 198, 203, 208, 215, 220, 225, 230, 237, 242, 247, 252, 259, 264, 269, 274, 281, 282, 286</p> <p>Teacher’s Edition: 17, 18, 22, 23, 27, 28, 32, 33, 40, 39, 40, 44, 45, 49, 50, 54, 55, 61, 62, 66, 67, 71, 72, 76, 77, 83, 84, 88, 89, 93, 94, 98, 99, 105, 106, 110, 111, 115, 116, 120, 121, 125, 126, 130, 131, 137, 138, 142, 143, 147, 148, 152, 153, 159, 160, 164, 165, 169, 170, 174, 175, 181, 182, 186, 187, 191, 192, 196, 197, 201, 202, 206, 207, 213, 214, 218, 219, 223, 224, 228, 229, 235, 236, 245, 246, 250, 251, 257, 258, 262, 263, 267, 268, 272, 273, 279, 280, 284, 285</p>
<ul style="list-style-type: none"> clear organization of ideas and procedures 	<p>Student Book: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p> <p>Teacher’s Edition: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p>
<p>A.8.5 Explain mathematical concepts, procedures, and ideas to others who may not be familiar with them</p>	<p>Student Book: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p> <p>Teacher’s Edition: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p>

Standard B: Number Operations and Relationships

Students in Wisconsin will use numbers effectively for various purposes, such as counting, measuring, estimating, and problem solving.

Performance Standards, Grade 8	ACCESS Math
<p>By the end of grade eight, students will:</p> <p>B.8.1 Read, represent, and interpret various rational numbers (whole numbers, integers, decimals, fractions, and percents) with verbal descriptions, geometric models, and mathematical notation (e.g., expanded, scientific, exponential)</p>	<p>Student Book: 16, 17, 19, 20, 26, 27, 28, 29, 60, 61, 62, 63, 64, 104, 105, 106, 107, 141, 142, 143, 144, 256, 257, 258, 259, 291</p> <p>Teacher’s Edition: 16, 17, 20, 26, 27, 29, 60, 61, 62, 64, 104, 105, 106, 141, 142, 143, 256, 257, 258, T32</p>

Performance Standards, Grade 8	ACCESS Math
B.8.2 Perform and explain operations on rational numbers (add, subtract, multiply, divide, raise to a power, extract a root, take opposites and reciprocals, determine absolute value)	Student Book: 26, 27, 28, 40, 71, 72, 76, 77, 89, 119, 120, 121, 124, 125, 126, 130, 131, 257, 261, 262, 263, 266, 267, 268 Teacher's Edition: 26, 27, 28, 40, 71, 72, 76, 77, 89, 119, 120, 121, 124, 125, 126, 130, 131, 257, 261, 262, 263, 266, 267, 268
B.8.3 Generate and explain equivalencies among fractions, decimals, and percents	Student Book: 141, 142, 143, 144, 145, 148, 149, 150 Teacher's Edition: 141, 142, 143, 145, 148, 150
B.8.5 Apply proportional thinking in a variety of problem situations that include, but are not limited to <ul style="list-style-type: none"> • percents, including those greater than 100 and less than one (e.g., discounts, rate of increase or decrease, sales tax) 	Student Book: 138, 139, 140, 142, 143, 144, 145, 147, 148, 149, 150, 151, 152, 153, 154, 155 Teacher's Edition: 138, 140, 142, 143, 145, 147, 148, 150, 151, 152, 153, 155
B.8.6 Model and solve problems involving number-theory concepts such as <ul style="list-style-type: none"> • prime and composite numbers 	Student Book: 87, 88, 89, 90, 91 Teacher's Edition: 87, 88, 89, 91
<ul style="list-style-type: none"> • divisibility and remainders 	Student Book: 82, 83, 84, 85, 86 Teacher's Edition: 82, 83, 84, 86
<ul style="list-style-type: none"> • greatest common factors 	Student Book: 92, 93, 94, 95, 96 Teacher's Edition: 92, 93, 94, 96
<ul style="list-style-type: none"> • least common multiples 	Student Book: 97, 98, 99, 100, 101 Teacher's Edition: 97, 98, 99, 101
B.8.7 In problem-solving situations, select and use appropriate computational procedures with rational numbers such as <ul style="list-style-type: none"> • calculating mentally 	Student Book: 31, 32, 33, 34, 35 Teacher's Edition: 31, 32, 33, 35
<ul style="list-style-type: none"> • estimating 	Student Book: 21, 22, 23, 24, 25 Teacher's Edition: 21, 22, 23, 25

Performance Standards, Grade 8	ACCESS Math
<ul style="list-style-type: none"> creating, using, and explaining algorithms 	<p>Student Book: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p> <p>Teacher's Edition: 20, 25, 30, 42, 47, 35, 52, 64, 69, 74, 79, 86, 91, 96, 108, 118, 123, 128, 140, 145, 150, 155, 162, 167, 172, 177, 184, 194, 204, 209, 216, 221, 226, 231, 238, 248, 253, 260, 270, 287</p>
<ul style="list-style-type: none"> using technology (e.g., scientific calculators, spreadsheets) 	<p>Student Book: 28, 118, 133, 231</p> <p>Teacher's Edition: 28, 118, 133, 231</p>

Standard C: Geometry

Students in Wisconsin will be able to use geometric concepts, relationships and procedures to interpret, represent, and solve problems.

Performance Standards, Grade 8	ACCESS Math
<p>By the end of grade eight, students will:</p> <p>C.8.1 Describe special and complex two- and three-dimensional figures (e.g., rhombus, polyhedron, cylinder) and their component parts (e.g., base, altitude, and slant height) by</p> <ul style="list-style-type: none"> naming, defining, and giving examples 	<p>Student Book: 187, 188, 189, 190, 191, 192, 193, 194, 210, 222, 223, 224, 225, 226</p> <p>Teacher's Edition: 187, 189, 190, 191, 192, 194, 210, 222, 223, 224, 226</p>
<ul style="list-style-type: none"> comparing, sorting, and classifying them 	<p>Student Book: 187, 188, 189, 190, 191, 192, 193, 194, 210, 222, 223, 224, 225, 226</p> <p>Teacher's Edition: 187, 189, 190, 191, 192, 194, 210, 222, 223, 224, 226</p>
<ul style="list-style-type: none"> identifying and contrasting their properties (e.g., symmetrical, isosceles, regular) 	<p>Student Book: 187, 188, 189, 190, 191, 192, 193, 194, 210, 222, 223, 224, 225, 226</p> <p>Teacher's Edition: 187, 189, 190, 191, 192, 194, 210, 222, 223, 224, 226</p>
<ul style="list-style-type: none"> drawing and constructing physical models to specifications 	<p>Student Book: 187, 188, 189, 190, 191, 192, 193, 194, 210, 222, 223, 224, 225, 226</p> <p>Teacher's Edition: 187, 189, 190, 191, 192, 194, 210, 222, 223, 224, 226</p>

Performance Standards, Grade 8	ACCESS Math
<ul style="list-style-type: none"> explaining how these figures are related to objects in the environment 	<p>Student Book: 187, 188, 189, 190, 191, 192, 193, 194, 210, 222, 223, 224, 225, 226</p> <p>Teacher's Edition: 187, 189, 190, 191, 192, 194, 210, 222, 223, 224, 226</p>
<p>C.8.2 Identify and use relationships among the component parts of special and complex two- and three-dimensional figures (e.g., parallel sides, congruent faces).</p>	<p>Student Book: 187, 188, 189, 190, 191, 192, 193, 194, 210, 222, 223, 224, 225, 226</p> <p>Teacher's Edition: 187, 189, 190, 191, 192, 194, 210, 222, 223, 224, 226</p>
<p>C.8.3 Identify three-dimensional shapes from two-dimensional perspectives and draw two-dimensional sketches of three-dimensional objects preserving their significant features</p>	<p>Student Book: 223, 224, 226</p> <p>Teacher's Edition: 223, 224, 226</p>
<p>C.8.4 Perform transformations on two-dimensional figures and describe and analyze the effects of the transformations on the figures</p>	<p>Student Book: 205, 206, 207, 208, 209</p> <p>Teacher's Edition: 205, 206, 207, 209</p>

S t a n d a r d D : M e a s u r e m e n t

Students in Wisconsin will select and use appropriate tools (including technology) and techniques to measure things to a specified degree of accuracy. They will use measurements in problem-solving situations.

Performance Standards, Grade 8	ACCESS Math
<p>By the end of grade eight, students will:</p> <p>D.8.1 Identify and describe attributes in situations where they are not directly or easily measurable (e.g., distance, area of an irregular figure, likelihood of occurrence)</p>	<p>Student Book: 214, 215, 234, 236, 237, 238</p> <p>Teacher's Edition: 214, 215, 234, 236, 238</p>
<p>D.8.2 Demonstrate understanding of basic measurement facts, principles, and techniques including the following</p> <ul style="list-style-type: none"> approximate comparisons between metric and US Customary units (e.g., a liter and a quart are about the same; a kilometer is about six-tenths of a mile) 	<p>Student Book: 293</p> <p>Teacher's Edition: T32</p>
<p>D.8.3 Determine measurement directly using standard units (metric and US Customary) with these suggested degrees of accuracy</p> <ul style="list-style-type: none"> angles to the nearest degree 	<p>Student Book: 182, 184</p> <p>Teacher's Edition: 182, 184</p>

Performance Standards, Grade 8	ACCESS Math
D.8.4 Determine measurements indirectly using <ul style="list-style-type: none"> conversion of units within a system (e.g., quarts to cups, millimeters to centimeters) 	Student Book: 293 Teacher's Edition: T32
<ul style="list-style-type: none"> geometric formulas to derive lengths, areas, volumes of common figures (e.g., perimeter, circumference, surface area) 	Student Book: 197, 198, 200, 201, 202, 203, 212, 213, 214, 215, 216, 218, 219, 220, 221, 223, 224, 225, 226, 227, 228, 229, 230, 231 Teacher's Edition: 197, 200, 201, 202, 212, 213, 214, 216, 218, 219, 221, 223, 224, 226, 227, 228, 229, 231
<ul style="list-style-type: none"> geometric relationships and properties for angle size (e.g., parallel lines and transversals; sum of angles of a triangle; vertical angles) 	Student Book: 185, 186, 187, 188, 189 Teacher's Edition: 185, 186, 187, 189

Standard E: Statistics and Probability
 Students in Wisconsin will use data collection and analysis, statistics and probability in problem-solving situations, employing technology where appropriate.

Performance Standards, Grade 8	ACCESS Math
By the end of grade eight, students will:	Student Book: 158, 159, 161, 162, 167 Teacher's Edition: 158, 159, 162, 167
E.8.1 Work with data in the context of real-world situations by <ul style="list-style-type: none"> designing and conducting a statistical investigation 	Student Book: 158, 159, 161, 168, 169, 170, 171, 172, 173, 174, 176, 177 Teacher's Edition: 158, 159, 168, 169, 170, 172, 173, 174, 177
E.8.2 Organize and display data from statistical investigations using <ul style="list-style-type: none"> appropriate tables, graphs, and/or charts (e.g., circle, bar or line for multiple sets of data) 	Student Book: 160, 161, 162, 163, 164, 166, 167 Teacher's Edition: 160, 162, 163, 164, 167
<ul style="list-style-type: none"> appropriate plots (e.g., line, stem-and-leaf, box, scatter) 	Student Book: 158, 159, 161, 162, 165, 166, 167 Teacher's Edition: 158, 159, 162, 165, 167
E.8.3 Extract, interpret, and analyze information from organized and displayed data by using <ul style="list-style-type: none"> frequency and distribution, including mode and range 	Student Book: 158, 159, 161, 162, 165, 166, 167 Teacher's Edition: 158, 159, 162, 165, 167

Performance Standards, Grade 8	ACCESS Math
<ul style="list-style-type: none"> central tendencies of data (mean and median) 	<p>Student Book: 165, 166, 167</p> <p>Teacher’s Edition: 165, 167</p>
<p>E.8.4 Use the results of data analysis to</p> <ul style="list-style-type: none"> make predictions 	<p>Student Book: 171, 172, 239, 240, 241, 242, 243</p> <p>Teacher’s Edition: 172, 239, 240, 241, 243</p>
<ul style="list-style-type: none"> develop convincing arguments 	<p>Student Book: 162, 163, 167</p> <p>Teacher’s Edition: 162, 163, 167</p>
<ul style="list-style-type: none"> draw conclusions 	<p>Student Book: 162, 166, 167</p> <p>Teacher’s Edition: 162, 167</p>
<p>E.8.5 Compare several sets of data to generate, test, and, as the data dictate, confirm or deny hypotheses</p>	<p>Student Book: 173, 174, 175, 176, 177</p> <p>Teacher’s Edition: 173, 174, 175, 177</p>
<p>E.8.6 Evaluate presentations and statistical analyses from a variety of sources for</p> <ul style="list-style-type: none"> techniques of collection, organization, and presentation of data 	<p>Student Book: 175, 176, 777</p> <p>Teacher’s Edition: 175, 177</p>
<p>E.8.7 Determine the likelihood of occurrence of simple events by</p> <ul style="list-style-type: none"> using a variety of strategies to identify possible outcomes (e.g., lists, tables, tree diagrams) 	<p>Student Book: 244, 245, 247, 248, 250, 251, 253, 254</p> <p>Teacher’s Edition: 244, 245, 248, 250, 251, 253, 254</p>
<ul style="list-style-type: none"> conducting an experiment 	<p>Student Book: 238, 240, 242, 243</p> <p>Teacher’s Edition: 238, 240, 243</p>
<ul style="list-style-type: none"> applying theoretical notions of probability (e.g., that four equally likely events have a 25% chance of happening) 	<p>Student Book: 234, 235, 236, 237, 238, 239, 240, 241, 242, 243</p> <p>Teacher’s Edition: 234, 235, 236, 238, 239, 240, 241, 243</p>

Standard F: Algebraic Relationships

Students in Wisconsin will discover, describe, and generalize simple and complex patterns and relationships. In the context of real-world problem situations, the student will use algebraic techniques to define and describe the problem to determine and justify appropriate solutions.

Performance Standards, Grade 8	ACCESS Math
<p>By the end of grade eight, students will:</p> <p>F.8.1 Work with algebraic expressions in a variety of ways, including</p> <ul style="list-style-type: none"> • using appropriate symbolism, including exponents and variables 	<p>Student Book: 26, 27, 28, 29, 40, 41, 43, 44, 45, 46, 47, 89, 279</p> <p>Teacher's Edition: 26, 27, 28, 40, 43, 44, 45, 47, 89, 279</p>
<ul style="list-style-type: none"> • evaluating expressions through numerical substitution 	<p>Student Book: 43, 44, 45, 46, 47</p> <p>Teacher's Edition: 43, 44, 45, 47</p>
<ul style="list-style-type: none"> • generating equivalent expressions 	<p>Student Book: 43, 44</p> <p>Teacher's Edition: 43, 44</p>
<ul style="list-style-type: none"> • adding and subtracting expressions 	<p>Student Book: 43, 44</p> <p>Teacher's Edition: 43, 44</p>
<p>F.8.2 Work with linear and nonlinear patterns* and relationships in a variety of ways, including</p> <ul style="list-style-type: none"> • representing them with tables, with graphs, and with algebraic expressions, equations, and inequalities 	<p>Student Book: 45, 46, 273, 274, 275</p> <p>Teacher's Edition: 45, 273, 275</p>
<ul style="list-style-type: none"> • describing and interpreting their graphical representations (e.g., slope, rate of change, intercepts) 	<p>Student Book: 273, 274, 275</p> <p>Teacher's Edition: 273, 275</p>
<ul style="list-style-type: none"> • using them as models of real-world phenomena 	<p>Student Book: 273, 274</p> <p>Teacher's Edition: 273</p>
<p>F.8.3 Recognize, describe, and analyze functional relationships* by generalizing a rule that characterizes the pattern of change among variables. These functional relationships include exponential growth and decay (e.g., cell division, depreciation)</p>	<p>Student Book: 273, 274</p> <p>Teacher's Edition: 273</p>

Performance Standards, Grade 8	ACCESS Math
F.8.4 Use linear equations and inequalities in a variety of ways, including <ul style="list-style-type: none"> • writing them to represent problem situations and to express generalizations 	Student Book: 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 276, 278, 279, 280, 281, 282, 285, 286, 287 Teacher's Edition: 48, 49, 50, 52, 53, 54, 55, 57, 276, 278, 279, 280, 282, 285, 287
<ul style="list-style-type: none"> • solving them by different methods (e.g., informally, graphically, with formal properties, with technology) 	Student Book: 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 276, 278, 279, 280, 281, 282, 285, 286, 287 Teacher's Edition: 48, 49, 50, 52, 53, 54, 55, 57, 276, 278, 279, 280, 282, 285, 287
<ul style="list-style-type: none"> • writing and evaluating formulas (including solving for a specified variable) 	Student Book: 153, 154, 213, 214, 215, 216, 218, 219, 220, 221, 224, 225, 228, 229, 230, 231, 232 Teacher's Edition: 153, 213, 214, 216, 218, 219, 221, 224, 228, 229, 231, 232
<ul style="list-style-type: none"> • using them to record and describe solution strategies 	Student Book: 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 276, 278, 279, 280, 281, 282, 285, 286, 287 Teacher's Edition: 48, 49, 50, 52, 53, 54, 55, 57, 276, 278, 279, 280, 282, 285, 287
F.8.5 Recognize and use generalized properties and relations, including <ul style="list-style-type: none"> • additive and multiplicative property of equations and inequalities 	Student Book: 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 Teacher's Edition: 48, 49, 50, 52, 53, 54, 55, 57
<ul style="list-style-type: none"> • commutativity and associativity of addition and multiplication 	Student Book: 32, 33, 34, 35 Teacher's Edition: 32, 33, 35
<ul style="list-style-type: none"> • distributive property 	Student Book: 32, 33, 34, 35 Teacher's Edition: 32, 33, 35



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