

A Correlation of

enVisionmath[®] 2.0

SCOTT FORESMAN • ADDISON WESLEY



To the

Ohio Learning standards - Mathematics Grades 6-8

**A Correlation of enVision^{math}2.0
To the Ohio Learning Standards - Mathematics**

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Standards for Mathematical Practice	
1. Make sense of problems and persevere in solving them.	SE/TE: 36, 41, 48, 52, 53, 54, 75, 76, 134, 143, 159, 206, 207, 262, 310, 359, 366, 372, 404, 417, 428, 432, 440, 457, 492
2. Reason abstractly and quantitatively.	SE/TE: 18, 24, 35, 36, 41, 42, 69, 74, 102, 105, 127, 148, 166, 182, 188, 214, 262, 273, 292, 294, 308, 321, 338, 339, 351, 360, 396, 427, 484
3. Construct viable arguments and critique the reasoning of others.	SE/TE: 52, 53, 68, 76, 81, 88, 104, 120, 122, 107, 134, 136, 150, 159, 160, 180, 230, 231, 242, 262, 292, 298, 308, 314, 322, 352, 427, 434, 486
4. Model with mathematics.	SE/TE: 42, 129, 136, 143, 149, 150, 158, 187, 193, 195, 196, 215, 222, 244, 278, 279, 280, 288, 294, 316, 366, 408, 434, 457, 470, 471, 472, 477, 478, 492, 498
5. Use appropriate tools strategically.	SE/TE: 100, 105, 106, 221, 222, 242, 243, 268, 278, 279, 280, 364, 402, 418, 432, 434, 470, 471, 472, 476, 477, 478, 497, 498
6. Attend to precision.	SE/TE: 23, 35, 41, 47, 48, 54, 105, 135, 194, 205, 207, 286, 287, 288, 293, 299, 309, 315, 321, 351, 359, 366, 370, 391, 392, 397, 398, 403, 409, 416, 433, 434, 438, 439, 440, 492, 497
7. Look for and make use of structure.	SE/TE: 42, 48, 82, 99, 100, 106, 150, 158, 160, 165, 166, 236, 237, 238, 320, 339, 352, 358, 372, 410, 416, 439, 463
8. Look for and express regularity in repeated reasoning.	SE/TE: 17, 48, 121, 122, 128, 160, 260, 261, 266, 267, 272, 273, 274, 300, 418

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RATIOS AND PROPORTIONAL RELATIONSHIPS 6.RP	
Understand ratio concepts and use ratio reasoning to solve problems.	
6.RP.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. For example, “The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak.” “For every vote candidate A received, candidate C received nearly three votes.”	SE/TE: 257-262, 263-268, 269-274, 301-304 TE: 252A-252D, 257A, 262A-262B, 263A, 268A-268B, 269A, 274A-274B, 301A
6.RP.2 Understand the concept of a unit rate a/b associated with a ratio $a:b$ with $b \neq 0$, and use rate language in the context of a ratio relationship. <i>For example, “This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is $3/4$ cup of flour for each cup of sugar.” “We paid \$75 for 15 hamburgers, which is a rate of \$5 per hamburger.”</i>	SE/TE: 283-288, 289-294, 295-300 TE: 252B-252D, 283A, 288A-288B, 289A, 294A-294B, 295A, 300A-300B
6.RP.3 Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.	SE/TE: 257-262, 263-268, 269-274, 275-280, 283-288, 289-294, 295-300, 301-304, 305-310, 311-316, 317-322 TE: 252A-252D, 257A, 262A-262B, 263A, 268A-268B, 269A, 274A-274B, 275A, 280A-280B, 283A, 288A-288B, 294A, 295A, 300A-300B, 301A, 305A, 310A-310B, 311A, 316A, 316B, 317A, 322A-322B
a. Make tables of equivalent ratios relating quantities with whole number measurements; find missing values in the tables; and plot the pairs of values on the coordinate plane. Use tables to compare ratios.	SE/TE: 263-268, 269-274, 275-280 TE: 263A, 268A-268B, 269A, 274A-274B, 275A, 280A-280B
b. Solve unit rate problems including those involving unit pricing and constant speed. <i>For example, if it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?</i>	SE/TE: 283-288, 289-294, 295-300, 301-304 TE: 283A, 288A-288B, 294A, 295A, 300A-300B, 301A

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c. Find a percent of a quantity as a rate per 100, e.g., 30% of a quantity means 30/100 times the quantity; solve problems involving finding the whole, given a part and the percent.	SE/TE: 335-340, 361-366, 367-372 TE: 330A-330D, 335A, 340A-340B, 361A, 366A-366B, 367A, 372A-372B
d. Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.	SE/TE: 305-310, 311-316, 317-322 TE: 305A, 310A-310B, 311A, 316A-316B, 317A, 322A-322B
THE NUMBER SYSTEM 6.NS	
Apply and extend previous understandings of multiplication and division to divide fractions by fractions.	
6.NS.1 Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. <i>For example, create a story context for $(2/3) \div (3/4)$ and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that $(2/3) \div (3/4) = 8/9$ because $3/4$ of $8/9$ is $2/3$. (In general, $(a/b) \div (c/d) = ad/bc$.) How much chocolate will each person get if 3 people share $1/2$ pound of chocolate equally? How many $3/4$ cup servings are in $2/3$ of a cup of yogurt? How wide is a rectangular strip of land with length $3/4$ mi and area $1/2$ square mi?</i>	SE/TE: 37-42, 43-48 TE: 2B, 37A, 42A-42B, 43A, 48A-48B
Compute fluently with multi-digit numbers and find common factors and multiples.	
6.NS.2 Fluently divide multi-digit numbers using a standard algorithm.	SE/TE: 13-18, 251 TE: 13A, 18A-18B
6.NS.3 Fluently add, subtract, multiply, and divide multi-digit decimals using a standard algorithm for each operation.	SE/TE: 7-12, 13-18, 51-52 TE: 2A, 7A, 12A-12B, 18A-18B, 54A-54B

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6.NS.4 Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1-100 with a common factor as a multiple of a sum of two whole numbers with no common factor. <i>For example, express $36 + 8$ as $4(9 + 2)$.</i>	SE/TE: 123-130 TE: 123A, 130A-130B
Apply and extend previous understandings of numbers to the system of rational numbers.	
6.NS.5 Understand that positive and negative numbers are used together to describe quantities having opposite directions or values, e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge; use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.	SE/TE: 65-70 TE: 65A, 70A-70B
6.NS.6 Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.	SE/TE: 71-76, 95-100 TE: 71A, 76A-76B, 100A-100B
a. Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., $-(-3) = 3$, and that 0 is its own opposite.	SE/TE: 71-76, 95-100 TE: 71A, 76A-76B, 100A-100B
b. Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.	SE/TE: 71-76, 85-90, 95-100 TE: 71A, 76A-76B, 85A, 90A-90B, 100A-100B

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c. Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.	SE/TE: 71-76, 85-90, 95-100 TE: 71A, 76A-76B, 85A, 90A-90B, 100A-100B
6.NS.7 Understand ordering and absolute value of rational numbers.	SE/TE: 65-70, 77-82 TE: 70A-70B, 77A, 82A-82B
a. Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. <i>For example, interpret $-3 > -7$ as a statement that -3 is located to the right of -7 on a number line oriented from left to right.</i>	SE/TE: 73-76, 211-216 TE: 76A-76B, 211A, 216A-216B
b. Write, interpret, and explain statements of order for rational numbers in real-world contexts. <i>For example, write $-3^{\circ}\text{C} > -7^{\circ}\text{C}$ to express the fact that -3°C is warmer than -7°C.</i>	SE/TE: 73-76, 211-216 TE: 76A-76B, 211A, 216A-216B
c. Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. <i>For example, for an account balance of -30 dollars, write $-30 = 30$ to describe the size of the debt in dollars.</i>	SE/TE: 77-82 TE: 77A, 82A-82B
d. Distinguish comparisons of absolute value from statements about order. <i>For example, recognize that an account balance less than -30 dollars represents a debt greater than 30 dollars.</i>	SE/TE: 77-82 TE: 77A, 82A-82B
6.NS.8 Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.	SE/TE: 85-90, 95-100, 101-106 TE: 85A, 90A-90B, 100A-100B, 106A-106

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EXPRESSIONS AND EQUATIONS 6.EE	
Apply and extend previous understandings of arithmetic to algebraic expressions.	
6.EE.1 Write and evaluate numerical expressions involving whole number exponents.	SE/TE: 117-122, 131-136 TE: 117A, 122A-122B, 136A-136B
Apply and extend previous understandings of arithmetic to algebraic expressions.	
6.EE.2 Write, read, and evaluate expressions in which letters stand for numbers.	SE/TE: 139-144, 145-150 TE: 139A, 144A-144B, 150A-150B
a. Write expressions that record operations with numbers and with letters standing for numbers. <i>For example, express the calculation "Subtract y from 5" as $5 - y$.</i>	SE/TE: 139-144, 145-150 TE: 139A, 144A-144B, 150A-150B
b. Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity. <i>For example, describe the expression $2(8 + 7)$ as a product of two factors; view $(8 + 7)$ as both a single entity and a sum of two terms.</i>	SE/TE: 139-144, 145-150 TE: 139A, 144A-144B, 150A-150B
c. Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole number exponents, using the algebraic order of operations when there are no parentheses to specify a particular order. <i>For example, use the formulas $V = s^3$ and $A = 6s^2$ to find the volume and surface area of a cube with sides of length $s = 1/2$.</i>	SE/TE: 145-150 TE: 150A-150B
6.EE.3 Apply the properties of operations to generate equivalent expressions. <i>For example, apply the distributive property to the expression $3(2 + x)$ to produce the equivalent expression $6 + 3x$; apply the distributive property to the expression $24x + 18y$ to produce the equivalent expression $6(4x + 3y)$; apply properties of operations to $y + y + y$ to produce the equivalent expression $3y$.</i>	SE/TE: 155-160, 161-166 TE: 160A-160B, 166A-166B

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6.EE.4 Identify when two expressions are equivalent, i.e., when the two expressions name the same number regardless of which value is substituted into them. <i>For example, the expressions $y + y + y$ and $3y$ are equivalent because they name the same number regardless of which number y stands for.</i>	SE/TE: 155-160, 161-166, 183-188 TE: 160A-160B, 166A-166B, 188A-188B
Reason about and solve one-variable equations and inequalities.	
6.EE.5 Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.	SE/TE: 177-182, 211-216, 217-222 TE: 182A-182B, 216A-216B, 222A-222B
6.EE.6 Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.	SE/TE: 177-182, 189-194, 195-200, 201-208 TE: 182A-182B, 194A-194B, 200A-200B, 208A-208B
6.EE.7 Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which p , q , and x are all nonnegative rational numbers.	SE/TE: 189-194, 195-200, 201-208 TE: 194A-194B, 200A-200B, 208A-208B, 220A-220B
6.EE.8 Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.	SE/TE: 211-216, 217-222 TE: 216A-216B, 220A-220B

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Represent and analyze quantitative relationships between dependent and independent variables.	
6.EE.9 Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. <i>For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation $d = 65t$ to represent the relationship between distance and time.</i>	SE/TE: 227-232, 233-238, 239-244 TE: 232A-232B, 238A-238B, 244A-244B
GEOMETRY 6.G	
Solve real-world and mathematical problems involving area, surface area, and volume.	
6.G.1 Through composition into rectangles or decomposition into triangles, find the area of right triangles, other triangles, special quadrilaterals, and polygons; apply these techniques in the context of solving real-world and mathematical problems.	SE/TE: 387-392, 393-398, 399-404, 405-410 TE: 392A-392B, 398A-398B, 404A-404B, 410A-410B
6.G.2 Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = \ell \cdot w \cdot h$ and $V = B \cdot h$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.	SE/TE: 435-440 TE: 440A-440B
6.G.3 Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.	SE/TE: 95, 100, 101-106 TE: 106A-106B

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6.G.4 Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.	SE/TE: 413-418, 423-428, 429-434 TE: 418A-418B, 428A-428B, 434A-434B
STATISTICS AND PROBABILITY 6.SP	
Develop understanding of statistical problem solving.	
6.SP.1 Develop statistical reasoning by using the GAISE model:	SE/TE: 453-458 TE: 458A-458B
a. Formulate Questions: Recognize and formulate a statistical question as one that anticipates variability and can be answered with quantitative data. <i>For example, "How old am I?" is not a statistical question, but "How old are the students in my school?" is a statistical question because of the variability in students' ages.</i> (GAISE Model, step 1)	SE/TE: 453-458 TE: 458A-458B
b. Collect Data: Design and use a plan to collect appropriate data to answer a statistical question. (GAISE Model, step 2)	SE/TE: 453-458 TE: 458A-458B
c. Analyze Data: Select appropriate graphical methods and numerical measures to analyze data by displaying variability within a group, comparing individual to individual, and comparing individual to group. (GAISE Model, step 3)	SE/TE: 453-458 TE: 458A-458B
d. Interpret Results: Draw logical conclusions from the data based on the original question. (GAISE Model, step 4)	SE/TE: 453-458 TE: 458A-458B
6.SP.2 Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.	SE/TE: 453-458 TE: 458A-458B
6.SP.3 Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.	SE/TE: 459-466, 481-486 TE: 466A-466B, 486A-486B

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Summarize and describe distributions.	
6.SP.4 Display numerical data in plots on a number line, including dot plots (line plots), histograms, and box plots. (GAISE Model, step 3)	SE/TE: 467-472, 473-478, 481-486 TE: 472A-472B, 478A-478B, 486A-486B
6.SP.5 Summarize numerical data sets in relation to their context.	SE/TE: 473-478, 481-486, 487-492, 493-498 TE: 486A-486B, 492A-492B, 498A-498B
a. Report the number of observations.	SE/TE: 473-478, 481-486, 487-492, 493-498 TE: 486A-486B, 492A-492B, 498A-498B
b. Describe the nature of the attribute under investigation, including how it was measured and its units of measurement.	SE/TE: 481-486, 487-492, 493-498 TE: 486A-486B, 492A-492B, 498A-498B
c. Find the quantitative measures of center (median and/or mean) for a numerical data set and recognize that this value summarizes the data set with a single number. Interpret mean as an equal or fair share. Find measures of variability (range and interquartile range) as well as informally describe the shape and the presence of clusters, gaps, peaks, and outliers in a distribution.	SE/TE: 459-466, 467-472, 481-486, 487-492, 493-498 TE: 466A-466B, 472A-472B, 486A-486B, 492A-492B, 498A-498B
d. Choose the measures of center and variability, based on the shape of the data distribution and the context in which the data were gathered.	SE/TE: 481-486, 487-492, 493-498 TE: 486A-486B, 492A-492B, 498A-498B

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Standards for Mathematical Practice	
1. Make sense of problems and persevere in solving them.	SE/TE: 12, 30, 44, 67, 89, 126, 142, 147, 153, 154, 162, 172, 204, 210, 212, 217, 235, 264, 268, 269, 316, 318, 332, 359, 365, 445, 363, 364, 374
2. Reason abstractly and quantitatively.	SE/TE: 10, 11, 28, 29, 35, 54, 66, 101, 102, 124, 125, 146, 160, 178, 204, 317, 323, 364, 370, 438, 440
3. Construct viable arguments and critique the reasoning of others.	SE/TE: 24, 29, 34, 43, 62, 66, 94, 101, 108, 118, 140, 142, 146, 148, 152, 160, 177, 206, 236, 282, 299, 315, 323, 324, 325, 338, 358, 364, 370, 424, 444, 464
4. Model with mathematics.	SE/TE: 10, 23, 24, 28, 36, 48, 61, 68, 89, 107, 118, 154, 193, 217, 262, 263, 264, 276, 277, 278, 282, 283, 284, 298, 360, 388, 396, 424, 425, 426, 431, 464
5. Use appropriate tools strategically.	SE/TE: 10, 11, 23, 118, 124, 276, 277, 278, 282, 283, 284, 298, 388, 396, 424, 425, 426, 431, 464
6. Attend to precision.	SE/TE: 16, 18, 43, 49, 102, 140, 141, 162, 176, 193, 228, 298, 315, 377, 378, 419, 439, 440, 445, 452, 453, 454, 462, 463, 464, 468, 469, 470, 474, 475, 476
7. Look for and make use of structure.	SE/TE: 17, 36, 42, 55, 56, 60, 88, 119, 171, 192, 210, 234, 240, 242, 256, 262, 264, 438
8. Look for and express regularity in repeated reasoning.	SE/TE: 95, 176, 192, 198, 199, 210, 211, 212, 217, 389, 390, 454, 469

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RATIOS AND PROPORTIONAL RELATIONSHIPS 7.RP	
Analyze proportional relationships and use them to solve real-world and mathematical problems.	
7.RP.1 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas, and other quantities measured in like or different units. <i>For example, if a person walks 1/2 mile in each 1/4 hour, compute the unit rate as the complex fraction $(1/2)/(1/4)$ miles per hour, equivalently 2 miles per hour.</i>	SE/TE: 86-90, 91-96 TE: 90A-90B, 96A-96B
7.RP.2 Recognize and represent proportional relationships between quantities.	SE/TE: 97-102, 103-108, 115-120, 150-154, 417-420 TE: 102A-102B, 108A-108B, 120A-120B, 154A-154B, 420A-420B
a. Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.	SE/TE: 97-102, 115-120 TE: 102A-102B, 120A-120B
b. Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.	SE/TE: 103-108, 150-154, 417-420 TE: 108A-108B, 154A-154B, 420A-420B
c. Represent proportional relationships by equations. <i>For example, if total cost t is proportional to the number n of items purchased at a constant price p, the relationship between the total cost and the number of items can be expressed as $t = pn$.</i>	SE/TE: 104-108, 150-154 TE: 108A-108B, 154A-154B
d. Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points $(0, 0)$ and $(1, r)$ where r is the unit rate.	SE/TE: 115-120 TE: 120A-120B
7.RP.3 Use proportional relationships to solve multistep ratio and percent problems. <i>Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.</i>	SE/TE: 143-148, 167-172, 173-178 TE: 148A-148B, 172A-172B, 178A-178B

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THE NUMBER SYSTEM 7.NS	
Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
7.NS.1 Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.	SE/TE: 19-24, 25-30, 31-36, 63-68 TE: 24A-24B, 30A-30B, 36A-36B, 68A-68B
a. Describe situations in which opposite quantities combine to make 0. <i>For example, a hydrogen atom has 0 charge because its two constituents are oppositely charged.</i>	SE/TE: 19-24 TE: 24A-24B
b. Understand $p + q$ as the number located a distance $ q $ from p , in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.	SE/TE: 19-24 TE: 24A-24B
c. Understand subtraction of rational numbers as adding the additive inverse, $p - q = p + (-q)$. Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.	SE/TE: 25-30 TE: 30A-30B
d. Apply properties of operations as strategies to add and subtract rational numbers.	SE/TE: 31-36, 63-68 TE: 36A-36B, 68A-68B
Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
7.NS.2 Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.	SE/TE: 39-44, 45-50, 51-56, 57-62, 63-68 TE: 44A-44B, 50A-50B, 56A-56B, 62A-62B, 68A-68B

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a. Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as $(-1)(-1) = 1$ and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts.	SE/TE: 39-44, 45-50 TE: 44A-44B, 50A-50B
b. Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers, then $-(p/q) = (-p)/q = p/(-q)$. Interpret quotients of rational numbers by describing real-world contexts.	SE/TE: 51-56, 57-62 TE: 56A-56B, 62A-62B
c. Apply properties of operations as strategies to multiply and divide rational numbers.	SE/TE: 39-44, 45-50, 51-56, 57-62, 63-68 TE: 44A-44B, 50A-50B, 56A-56B, 62A-62B, 68A-68B
d. Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in 0s or eventually repeats.	SE/TE: 13-18 TE: 13A, 18A-18B This standard is also addressed in enVisionmath2.0 Grade 8. Please see: SE/TE: 8-10
7.NS.3 Solve real-world and mathematical problems involving the four operations with rational numbers. Computations with rational numbers extend the rules for manipulating fractions to complex fractions.	SE/TE: 59-62, 63-68 TE: 62A-62B, 68A-68B
EXPRESSIONS AND EQUATIONS 7.EE	
Use properties of operations to generate equivalent expressions.	
7.EE.1 Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.	SE/TE: 207-212, 213-218, 225-230, 231-236 TE: 212A-212B, 218A-218B, 230A-230B, 236A-236B

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<p>7.EE.2 In a problem context, understand that rewriting an expression in an equivalent form can reveal and explain properties of the quantities represented by the expression and can reveal how those quantities are related. <i>For example, a discount of 15% (represented by $p - 0.15p$) is equivalent to $(1 - 0.15)p$, which is equivalent to $0.85p$ or finding 85% of the original price.</i></p>	<p>SE/TE: 207-212, 237-242</p> <p>TE: 212A-212B, 242A-242B</p>
<p>Solve real-life and mathematical problems using numerical and algebraic expressions and equations.</p>	
<p>7.EE.3 Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. <i>For example, if a woman making \$25 an hour gets a 10% raise, she will make an additional $1/10$ of her salary an hour, or \$2.50, for a new salary of \$27.50. If you want to place a towel bar $9\frac{3}{4}$ inches long in the center of a door that is $27\frac{1}{2}$ inches wide, you will need to place the bar about 9 inches from each edge; this estimate can be used as a check on the exact computation.</i></p>	<p>SE/TE: 65-68, 253-258, 259-264, 265-270</p> <p>TE: 68A-68B, 258A-258B, 264A-264B, 270A-270B</p>
<p>7.EE.4 Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.</p>	<p>SE/TE: 103-108, 253-258, 259-264, 265-270, 273-278, 279-284, 289-294, 295-300</p> <p>TE: 108A-108B, 258A-258B, 264A-264B, 270A-270B, 278A-278B, 284A-284B, 294A-294B, 300A-300B</p>
<p>a. Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p, q, and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach. <i>For example, the perimeter of a rectangle is 54 cm. Its length is 6 cm. What is its width?</i></p>	<p>SE/TE: 253-258, 259-264, 265-270</p> <p>TE: 258A-258B, 264A-264B, 270A-270B</p>

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<p>b. Solve word problems leading to inequalities of the form $px + q > r$ or $px + q < r$, where p, q, and r are specific rational numbers. Graph the solution set of the inequality and interpret it in the context of the problem. <i>For example, as a salesperson, you are paid \$50 per week plus \$3 per sale. This week you want your pay to be at least \$100. Write an inequality for the number of sales you need to make, and describe the solutions.</i></p>	<p>SE/TE: 273-278, 279-284, 289-294, 295-300</p> <p>TE: 278A-278B, 284A-284B, 294A-294B, 300A-300B</p>
GEOMETRY 7.G	
Draw, construct, and describe geometrical figures and describe the relationships between them.	
<p>7.G.1 Solve problems involving similar figures with right triangles, other triangles, and special quadrilaterals.</p>	<p>This standard is addressed in enVisionmath2.0 Grade 8. Please see:</p> <p>SE/TE: 339-344, 360-364</p>
<p>a. Compute actual lengths and areas from a scale drawing and reproduce a scale drawing at a different scale.</p>	<p>SE/TE: 415-420</p> <p>TE: 420A-420B</p>
<p>b. Represent proportional relationships within and between similar figures.</p>	<p>This standard is addressed in enVisionmath2.0 Grade 8. Please see:</p> <p>SE/TE: 339-344, 360-364</p>
<p>7.G.2 Draw (freehand, with ruler and protractor, and with technology) geometric figures with given conditions.</p>	<p>SE/TE: 421-426, 427-434</p> <p>TE: 426A-426B, 434A-434B</p>
<p>a. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.</p>	<p>SE/TE: 421-426, 427-434</p> <p>TE: 426A-426B, 434A-434B</p>
<p>b. Focus on constructing quadrilaterals with given conditions noticing types and properties of resulting quadrilaterals and whether it is possible to construct different quadrilaterals using the same conditions.</p>	<p>SE/TE: 421-426, 427-434</p> <p>TE: 426A-426B, 434A-434B</p>

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7.G.3 Describe the two-dimensional figures that result from slicing three-dimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids.	SE/TE: 459-464 TE: 464A-464B
Solve real-life and mathematical problems involving angle measure, circles, area, surface area, and volume.	
7.G.4 Work with circles.	SE/TE: 441-446, 448-454 TE: 446A-446B, 454A-454B
a. Explore and understand the relationships among the circumference, diameter, area, and radius of a circle.	SE/TE: 441-446, 448-454 TE: 446A-446B, 454A-454B
b. Know and use the formulas for the area and circumference of a circle and use them to solve real-world and mathematical problems.	SE/TE: 441-446, 448-454 TE: 446A-446B, 454A-454B
7.G.5 Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.	SE/TE: 435-440 TE: 440A-440B
7.G.6 Solve real-world and mathematical problems involving area, volume, and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.	SE/TE: 459-464, 465-470, 471-476 TE: 464A-464B, 470A-470B, 476A-476B
STATISTICS AND PROBABILITY 7.SP	
Use sampling to draw conclusions about a population.	
7.SP.1 Understand that statistics can be used to gain information about a population by examining a sample of the population.	SE/TE: 319-326, 330-334, 337-340 TE: 326A-326B, 334A-334B, 340A-340B

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a. Differentiate between a sample and a population.	SE/TE: 311-318 TE: 318A-318B
b. Understand that conclusions and generalizations about a population are valid only if the sample is representative of that population. Develop an informal understanding of bias.	SE/TE: 329-334, 335-340 TE: 334A-334B, 340A-340B
Broaden understanding of statistical problem solving.	
7.SP.2 Broaden statistical reasoning by using the GAISE model:	For related content, see: SE/TE: 319-326, 329-334, 335-340 TE: 326A-326B, 334A-334B, 340A-340B
a. Formulate Questions: Recognize and formulate a statistical question as one that anticipates variability and can be answered with quantitative data. For example, "How do the heights of seventh graders compare to the heights of eighth graders?" (GAISE Model, step 1)	For related content, see: SE/TE: 319-326, 329-334, 335-340 TE: 326A-326B, 334A-334B, 340A-340B
b. Collect Data: Design and use a plan to collect appropriate data to answer a statistical question. (GAISE Model, step 2)	For related content, see: SE/TE: 319-326, 329-334, 335-340 TE: 326A-326B, 334A-334B, 340A-340B
c. Analyze Data: Select appropriate graphical methods and numerical measures to analyze data by displaying variability within a group, comparing individual to individual, and comparing individual to group. (GAISE Model, step 3)	For related content, see: SE/TE: 319-326, 329-334, 335-340 TE: 326A-326B, 334A-334B, 340A-340B

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d. Interpret Results: Draw logical conclusions and make generalizations from the data based on the original question. (GAISE Model, step 4)	For related content, see: SE/TE: 319-326, 329-334, 335-340 TE: 326A-326B, 334A-334B, 340A-340B
Summarize and describe distributions representing one population and draw informal comparisons between two populations.	
7.SP.3 Describe and analyze distributions.	SE/TE: 329-334, 335-340 TE: 334A-334B, 340A-340B
a. Summarize quantitative data sets in relation to their context by using mean absolute deviation (MAD), interpreting mean as a balance point.	SE/TE: 335-340 TE: 340A-340B
b. Informally assess the degree of visual overlap of two numerical data distributions with roughly equal variabilities, measuring the difference between the centers by expressing it as a multiple of a measure of variability. <i>For example, the mean height of players on the basketball team is 10 cm greater than the mean height of players on the soccer team, about twice the variability (mean absolute deviation) on either team; on a dot plot (line plot), the separation between the two distributions of heights is noticeable.</i>	SE/TE: 319-326, 329-334, 335-340 TE: 326A-326B, 334A-334B, 340A-340B
Investigate chance processes and develop, use, and evaluate probability models.	
7.SP.5 Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Larger numbers indicate greater likelihood. A probability near 0 indicates an unlikely event; a probability around 1/2 indicates an event that is neither unlikely nor likely; and a probability near 1 indicates a likely event.	SE/TE: 355-360, 361-366 TE: 360A-360B, 366A-366B

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7.SP.6 Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability. <i>For example, when rolling a number cube 600 times, predict that a 3 or 6 would be rolled roughly 200 times, but probably not exactly 200 times.</i>	SE/TE: 367-372 TE: 372A-372B
7.SP.7 Develop a probability model and use it to find probabilities of events. Compare probabilities from a model to observed frequencies; if the agreement is not good, explain possible sources of the discrepancy.	SE/TE: 373-378, 386-390 TE: 378A-378B, 390A-390B
a. Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events. <i>For example, if a student is selected at random from a class, find the probability that Jane will be selected and the probability that a girl will be selected.</i>	SE/TE: 373-378 TE: 378A-378B
b. Develop a probability model (which may not be uniform) by observing frequencies in data generated from a chance process. <i>For example, find the approximate probability that a spinning penny will land heads up or that a tossed paper cup will land open-end down. Do the outcomes for the spinning penny appear to be equally likely based on the observed frequencies?</i>	SE/TE: 373-378, 386-390 TE: 378A-378B, 390A-390B
7.SP.8 Find probabilities of compound events using organized lists, tables, tree diagrams, and simulations.	SE/TE: 385-390, 391-396, 397-402 TE: 390A-390B, 396A-396B, 402A-402B
a. Understand that, just as with simple events, the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs.	SE/TE: 385-390, 391-396 TE: 390A-390B, 396A-396B

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<p>b. Represent sample spaces for compound events using methods such as organized lists, tables, and tree diagrams. For an event described in everyday language, e.g., “rolling double sixes,” identify the outcomes in the sample space which compose the event.</p>	<p>SE/TE: 385-390, 391-396</p> <p>TE: 390A-390B, 396A-396B</p>
<p>c. Design and use a simulation to generate frequencies for compound events. <i>For example, use random digits as a simulation tool to approximate the answer to the question: If 40% of donors have type A blood, what is the probability that it will take at least 4 donors to find one with type A blood?</i></p>	<p>SE/TE: 397-402</p> <p>TE: 402A-402B</p>

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Standards for Mathematical Practice	
1. Make sense of problems and persevere in solving them.	SE/TE: 88, 89, 122, 146, 186, 198, 227, 235, 308, 318, 399, 422, 427, 428, 441
2. Reason abstractly and quantitatively.	SE/TE: 12, 16, 18, 22, 48, 72, 94, 100, 108, 109, 126, 133, 174, 188, 216, 240, 266, 276, 307, 312, 314, 328, 336, 343, 362, 405, 422, 426
3. Construct viable arguments and critique the reasoning of others.	SE/TE: 16, 17, 22, 28, 30, 34, 36, 44, 49, 54, 56, 60, 71, 107, 109, 128, 146, 163, 168, 187, 194, 220, 240, 261, 266, 274, 276, 280, 328, 337, 362, 363, 384, 421
4. Model with mathematics.	SE/TE: 24, 44, 90, 94, 95, 121, 133, 134, 139, 144, 145, 162, 168, 169, 170, 187, 198, 199, 200, 214, 215, 234, 266, 267, 268, 282, 300, 301, 306, 307, 308, 319, 329, 330, 337, 342, 343, 344, 392, 404
5. Use appropriate tools strategically.	SE/TE: 90, 140, 144, 145, 168, 169, 170, 198, 199, 200, 215, 266, 267, 268, 300, 301, 306, 307, 308, 329, 330, 342, 343, 344
6. Attend to precision.	SE/TE: 10, 23, 29, 34, 54, 55, 276, 342, 349, 350, 351, 352, 356, 357, 358, 362, 363, 364, 385, 386, 390, 391, 392, 405, 420, 421, 422, 426, 427, 428, 434, 435, 436, 440, 441, 442
7. Look for and make use of structure.	SE/TE: 10, 50, 70, 89, 95, 100, 101, 107, 132, 144, 163, 164, 192, 234, 260, 275, 349, 384, 390, 398, 434
8. Look for and express regularity in repeated reasoning.	SE/TE: 29, 43, 49, 61, 127, 242, 281, 318, 385, 391, 399, 441

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THE NUMBER SYSTEM 8.NS	
Know that there are numbers that are not rational, and approximate them by rational numbers	
8.NS.1 Know that real numbers are either rational or irrational. Understand informally that every number has a decimal expansion which is repeating, terminating, or is non-repeating and non-terminating	SE/TE: 13-18 TE: 18A-18B
8.NS.2 Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions, e.g., π^2 . <i>For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations</i>	SE/TE: 19-24 TE: 24A-24B
EXPRESSIONS AND EQUATIONS 8.EE	
Work with radicals and integer exponents	
8.EE.1 Understand, explain, and apply the properties of integer exponents to generate equivalent numerical expressions. <i>For example, $3^2 \times 3^{-5} = 3^{-3} = 1/3^3 = 1/27$</i>	SE/TE: 39-44, 45-50 TE: 44A-44B, 50A-50B
8.EE.2 Use square root and cube root symbols to represent solutions to equations of the form $x^2 = p$ and $x^3 = p$, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that $\sqrt{2}$ is irrational	SE/TE: 25-30, 32-36 TE: 30A-30B, 36A-36B
8.EE.3 Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities and to express how many times as much one is than the other. <i>For example, estimate the population of the United States as 3×10^8; and the population of the world as 7×10^9; and determine that the world population is more than 20 times larger</i>	SE/TE: 51-56, 57-62 TE: 56A-56B, 62A-62B

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8.EE.4 Perform operations with numbers expressed in scientific notation, including problems where both decimal notation and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities, e.g., use millimeters per year for seafloor spreading. Interpret scientific notation that has been generated by technology	SE/TE: 67-72 TE: 72A-72B
Understand the connections between proportional relationships, lines, and linear equations	
8.EE.5 Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. <i>For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed</i>	SE/TE: 117-123, 123-128 TE: 123A-123B, 128A-128B
8.EE.6 Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at b	SE/TE: 129-134, 135-140, 141-146 TE: 134A-134B, 140A-140B, 146A-146B
Analyze and solve linear equations and pairs of simultaneous linear equations	
8.EE.7 Solve linear equations in one variable	SE/TE: 85-90, 91-96, 97-102 TE: 90A-90B, 96A-96B, 102A-102B
a. Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results (where a and b are different numbers)	SE/TE: 85-90, 91-96, 97-102, 103-110 TE: 90A-90B, 96A-96B, 102A-102B, 110A-110B

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b. Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms	SE/TE: 85-90, 91-96, 97-102, 103-110 TE: 90A-90B, 96A-96B, 102A-102B, 110A-110B
Analyze and solve linear equations and pairs of simultaneous linear equations	
8.EE.8 Analyze and solve pairs of simultaneous linear equations graphically	SE/TE: 257-262, 263-268, 271-276, 277-282 TE: 262A-262B, 268A-268B, 276A-276B, 282A-282B
a. Understand that the solution to a pair of linear equations in two variables corresponds to the point(s) of intersection of their graphs, because the point(s) of intersection satisfy both equations simultaneously	SE/TE: 257-262 TE: 262A-262B
b. Use graphs to find or estimate the solution to a pair of two simultaneous linear equations in two variables. Equations should include all three solution types: one solution, no solution, and infinitely many solutions. Solve simple cases by inspection. <i>For example, $3x + 2y = 5$ and $3x + 2y = 6$ have no solution because $3x + 2y$ cannot simultaneously be 5 and 6</i>	SE/TE: 257-262, 263-268, 271-276, 277-282 TE: 262A-262B, 268A-268B, 276A-276B, 282A-282B
c. Solve real-world and mathematical problems leading to pairs of linear equations in two variables. <i>For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair.</i> (Limit solutions to those that can be addressed by graphing.)	SE/TE: 257-262, 263-268, 271-276, 277-282 TE: 262A-262B, 268A-268B, 276A-276B, 282A-282B

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FUNCTIONS 8.F	
Define, evaluate, and compare functions	
8.F.1 Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output. Function notation is not required in Grade 8	SE/TE: 159-164, 166-170 TE: 164A-164B, 170A-170B
8.F.2 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). <i>For example, given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change</i>	SE/TE: 166-170, 172-176, 183-188 TE: 170A-170B, 176A-176B, 183A, 188A-188B
8.F.3 Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear. <i>For example, the function $A = s^2$ giving the area of a square as a function of its side length is not linear because its graph contains the points (1,1), (2,4) and (3,9), which are not on a straight line</i>	SE/TE: 166-170, 172-176, 191-194, 195-200 TE: 170A-170B, 176A-176B, 194A-194B, 200A-200B
Use functions to model relationships between quantities	
8.F.4 Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values	SE/TE: 172-176, 184-188, 195-200 TE: 176A-176B, 183A, 188A-188B, 200A-200B
8.F.5 Describe qualitatively the functional relationship between two quantities by analyzing a graph, e.g., where the function is increasing or decreasing, linear or nonlinear. Sketch a graph that exhibits the qualitative features of a function that has been described verbally	SE/TE: 167-170, 172-176, 189-194, 195-200 TE: 170A-170B, 176A-176B, 194A-194B, 200A-200B

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GEOMETRY 8.G	
Understand congruence and similarity using physical models, transparencies, or geometry software	
8.G.1 Verify experimentally the properties of rotations, reflections, and translations (include examples both with and without coordinates)	SE/TE: 297-302, 303-308, 309-314 TE: 302A-302B, 308A-308B, 314A-314B
a. Lines are taken to lines, and line segments are taken to line segments of the same length	SE/TE: 297-302, 303-308, 309-314, 325-330, 339-344 TE: 302A-302B, 308A-308B, 314A-314B, 330A-330B, 344A-344B
b. Angles are taken to angles of the same measure	SE/TE: 303-308, 311-314 TE: 308A-308B, 314A-314B
c. Parallel lines are taken to parallel lines	SE/TE: 303-308 TE: 308A-308B
Understand congruence and similarity using physical models, transparencies, or geometry software	
8.G.2 Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them. (Include examples both with and without coordinates.)	SE/TE: 325-330 TE: 330A-330B
8.G.3 Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates	SE/TE: 333-338, 339-344 TE: 338A-338B, 344A-344B

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8.G.4 Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them. (Include examples both with and without coordinates.)	SE/TE: 339-344 TE: 344A-344B
8.G.5 Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles. <i>For example, arrange three copies of the same triangle so that the sum of the three angles appears to form a line, and give an argument in terms of transversals why this is so</i>	SE/TE: 345-352, 353-358, 359-364 TE: 352A-352B, 358A-358B, 364A-364B
Understand and apply the Pythagorean Theorem	
8.G.6 Analyze and justify an informal proof of the Pythagorean Theorem and its converse	SE/TE: 381-386, 387-392 TE: 386A-386B, 392A-392B
8.G.7 Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions	SE/TE: 383-386, 395-400 TE: 386A-386B, 400A-400B
8.G.8 Apply the Pythagorean Theorem to find the distance between two points in a coordinate system	SE/TE: 401-406 TE: 406A-406B
Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres	
8.G.9 Solve real-world and mathematical problems involving volumes of cones, cylinders, and spheres	SE/TE: 423-428, 431-436, 437-442 TE: 428A-428B, 436A-436B, 442A-442B

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STATISTICS AND PROBABILITY 8.SP	
Investigate patterns of association in bivariate data	
8.SP.1 Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering; outliers; positive, negative, or no association; and linear association and nonlinear association. (GAISE Model, steps 3 and 4)	SE/TE: 211-216 TE: 216A-216B
8.SP.2 Understand that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line. (GAISE Model, steps 3 and 4)	SE/TE: 217-222, 223-228 TE: 222A-222B, 228A-228B
8.SP.3 Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept. <i>For example, in a linear model for a biology experiment, interpret a slope of 1.5 cm/hr as meaning that an additional hour of sunlight each day is associated with an additional 1.5 cm in mature plant height.</i> (GAISE Model, steps 3 and 4)	SE/TE: 223-228 TE: 228A-228B
8.SP.4 Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables. <i>For example, collect data from students in your class on whether or not they have a curfew on school nights and whether or not they have assigned chores at home. Is there evidence that those who have a curfew also tend to have chores</i>	SE/TE: 231-236, 237-242 TE: 236A-236B, 242A-242B