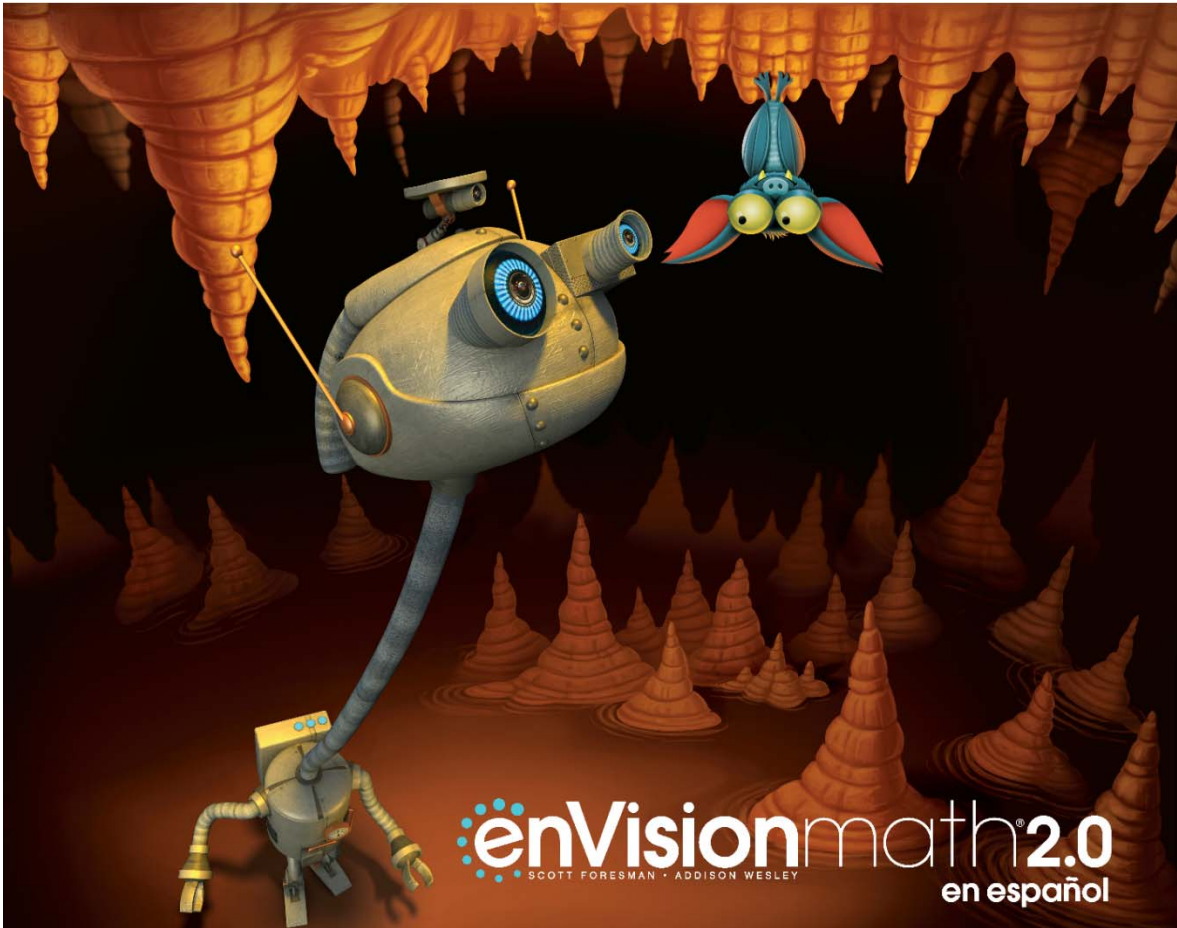


A Correlation of
enVisionmath2.0 en español
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To the
**Utah Core State Standards for
Mathematics – Grade 2**
Utah Course Code: 07010000003



**A Correlation of enVisionmath2.0 en español
to the Utah Core State Standards for Mathematics – Grade 2
Utah Course Code: 0701000003**

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**A Correlation of enVisionmath2.0 en español
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UTAH CORE STATE STANDARDS For MATHEMATICS Grade 2 Utah Course Code: 0701000003	enVisionmath2.0 en español Grade 2
MATHEMATICAL PRACTICES (2.MP)	
<p>Standard 2.MP.1 Make sense of problems and persevere in solving them. Explain the meaning of a problem, look for entry points to begin work on the problem, and plan and choose a solution pathway. When a solution pathway does not make sense, look for another pathway that does. Explain connections between various solution strategies and representations. Upon finding a solution, look back at the problem to determine whether the solution is reasonable and</p>	<p>SE/TE: Topic 1: 17-22, 29-34, 53-58; Topic 5: 255-260, 267-272, 297-302; Topic 9: 517-522, 553-558, 565-570; Topic 12: 699-704, 729-734, 741-746</p> <p>TE: Topic 1: 17A, 29A, 53A; Topic 5: 255A, 267A, 297A; Topic 9: 517A, 553A, 565A; Topic 12: 699A, 729A, 741A</p>
<p>Standard 2.MP.2 Reason abstractly and quantitatively. Make sense of quantities and their relationships in problem situations. Contextualize quantities and operations by using images or stories. Decontextualize a given situation and represent it symbolically. Interpret symbols as having meaning, not just as directions to carry out a procedure. Know and flexibly use different properties of operations, numbers, and geometric objects.</p>	<p>SE/TE: Topic 2: 87-92, 99-104; Topic 6: 347-352, 365-370, 371-376; Topic 10: 591-596, 597-602, 615-620; Topic 13: 761-766, 767-772, 779-784</p> <p>TE: Topic 2: 87A, 99A; Topic 6: 347A, 365A, 371A; Topic 10: 591A, 597A, 615A; Topic 13: 761A, 767A, 779A</p>
<p>Standard 2.MP.3 Construct viable arguments and critique the reasoning of others. Use stated assumptions, definitions, and previously established results to construct arguments. Explain and justify the mathematical reasoning underlying a strategy, solution, or conjecture by using concrete referents such as objects, drawings, diagrams, and actions. Listen to or read the arguments of others, decide whether they make sense, ask useful questions to clarify or improve the arguments, and build on those arguments.</p>	<p>SE/TE: Topic 3: 123-128, 129-134, 153-158; Topic 7: 397-402, 415-420, 421-426; Topic 11: 655-660, 667-672, 673-678; Topic 14: 821-826, 827-832, 833-838</p> <p>TE: Topic 3: 123A, 129A, 153A; Topic 7: 397A, 415A, 421A; Topic 11: 655A, 667A, 673A; Topic 14: 821A, 827A, 833A</p>

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<p>Standard 2.MP.4 Model with mathematics. Identify the mathematical elements of a situation and create a mathematical model that shows the relationships among them. Identify important quantities in a contextual situation, use mathematical models to show the relationships of those quantities, analyze the relationships, and draw conclusions. Models may be verbal, contextual, visual, symbolic, or physical.</p>	<p>SE/TE: Topic 4: 193-198, 199-204, 235-240; Topic 8: 449-454, 455-460, 467-472; Topic 9: 511-516, 529-534, 559-564; Topic 15: 859-864, 883-888, 901-906</p> <p>TE: Topic 4: 193A, 199A, 235A; Topic 8: 449A, 455A, 467A; Topic 9: 511A, 529A, 559A; Topic 15: 859A, 883A, 901A</p>
<p>Standard 2.MP.5 Use appropriate tools strategically. Consider the tools that are available when solving a mathematical problem, whether in a real-world or mathematical context. Choose tools that are relevant and useful to the problem at hand, such as drawings, diagrams, technologies, and physical objects and tools, as well as mathematical tools such as estimation or a particular strategy or algorithm.</p>	<p>SE/TE: Topic 1: 17-22, 29-34, 41-46; Topic 5: 255-260, 273-278, 297-302; Topic 10: 591-596, 603-608, 615-620; Topic 12: 693-698, 717-722, 729-734</p> <p>TE: Topic 1: 17A, 29A, 41A; Topic 5: 255A, 273A, 297A; Topic 10: 591A, 603A, 615A; Topic 12: 693A, 717A, 729A</p>
<p>Standard 2.MP.6 Attend to precision. Communicate precisely to others by crafting careful explanations that communicate mathematical reasoning by referring specifically to each important mathematical element, describing the relationships among them, and connecting their words clearly to representations. Calculate accurately and efficiently, and use clear and concise notation to record work.</p>	<p>SE/TE: Topic 2: 81-86, 87-92, 105-110; Topic 6: 335-340, 347-352, 359-364; Topic 11: 649-654; Topic 12: 693-698, 741-746; Topic 13: 761-766, 773-778, 785-790</p> <p>TE: Topic 2: 81A, 87A, 105A; Topic 6: 335A, 347A, 359A; Topic 11: 649A; Topic 12: 693A, 741A; Topic 13: 761A, 773A, 785A</p>
<p>Standard 2.MP.7 Look for and make use of structure. Recognize and apply the structures of mathematics such as patterns, place value, the properties of operations, or the flexibility of numbers. See complicated things as single objects or as being composed of several objects.</p>	<p>SE/TE: Topic 3: 141-146, 147-152; Topic 7: 421-426; Topic 8: 455-460; Topic 9: 511-516, 541-546, 565-570; Topic 14: 827-832; Topic 15: 865-870, 901-906</p> <p>TE: Topic 3: 141A, 147A; Topic 7: 421A; Topic 8: 455A; Topic 9: 511A, 541A, 565A; Topic 14: 827A; Topic 15: 865A, 901A</p>

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<p>Standard 2.MP.8 Look for and express regularity in repeated reasoning. Notice repetitions in mathematics when solving multiple related problems. Use observations and reasoning to find shortcuts or generalizations. Evaluate the reasonableness of intermediate results.</p>	<p>SE/TE: Topic 4: 217-222, 229-234; Topic 8: 467-472, 473-478, 479-484; Topic 10: 585-590, 603-608, 621-626; Topic 15: 889-894, 901-906</p> <p>TE: Topic 4: 217A, 229A; Topic 8: 467A, 473A, 479A; Topic 10: 585A, 603A, 621A; Topic 15: 889A, 901A</p>
<p>OPERATIONS AND ALGEBRAIC THINKING (2.OA) Represent and solve problems involving addition and subtraction (Standard 2.OA.1). Fluently add and subtract within 20 (Standard 2.OA.2) and work with equal groups of objects to gain foundations for multiplication (Standards 2.OA.3–4).</p>	
<p>Standard 2.OA.1 Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing with unknowns in all positions, <i>for example, by using drawings and equations with a symbol for the unknown number to represent the problem.</i></p>	<p>SE/TE: Topic 1: 53-58, 59-64; Topic 2: 105-110; Topic 3: 165-170, 171-176; Topic 4: 229-234, 235-240; Topic 5: 297-302, 303-308; Topic 6: 365-370, 371-376; Topic 7: 391-396, 397-402, 403-408, 409-414, 415-420, 421-426; Topic 8: 461-466, 467-472; Topic 13: 767-772, 773-778, 785-790; Topic 14: 827-832, 833-838</p> <p>TE: Topic 1: 53A, 59A; Topic 2: 105A; Topic 3: 165A, 171A; Topic 4: 229A, 235A; Topic 5: 297A, 303A; Topic 6: 365A, 371A; Topic 7: 391A, 397A, 403A, 409A, 415A, 421A; Topic 8: 461A, 467A; Topic 13: 767A, 773A, 785A; Topic 14: 827A, 833A</p>
<p>Standard 2.OA.2 Fluently add and subtract within 20.</p>	<p>SE/TE: Topic 1: 5-10, 11-16, 17-22, 23-28, 29-34, 35-40, 41-46, 47-52, 53-58, 59-64; Topic 2: 81-86, 87-92, 93-98, 99-104</p> <p>TE: Topic 1: 5A, 11A, 17A, 23A, 29A, 35A, 41A, 47A, 53A, 59A; Topic 2: 81A, 87A, 93A, 99A</p>

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<p>a. Add and subtract within 20 using mental strategies such as counting on; making ten (<i>for example, $8 + 6 = 8 + 2 + 4 = 10 + 4 = 14$</i>); decomposing a number leading to a ten (<i>for example, $13 - 4 = 13 - 3 - 1 = 10 - 1 = 9$</i>); using the relationship between addition and subtraction (<i>for example, knowing that $8 + 4 = 12$, one knows $12 - 8 = 4$</i>); and creating equivalent but easier or known sums (<i>for example, adding $6 + 7$ by creating the known equivalent $6 + 6 + 1 = 12 + 1 = 13$</i>).</p>	<p>SE/TE: Topic 1: 5-10, 11-16, 17-22, 23-28, 29-34, 35-40, 41-46, 47-52, 53-58, 59-64; Topic 2: 81-86, 87-92, 93-98, 99-104</p> <p>TE: Topic 1: 5A, 11A, 17A, 23A, 29A, 35A, 41A, 47A, 53A, 59A; Topic 2: 81A, 87A, 93A, 99A</p>
<p>b. By the end of Grade 2, know from memory all sums of two one-digit numbers.</p>	<p>SE/TE: Topic 1: 5-10, 11-16, 17-22, 23-28, 29-34, 35-40, 41-46, 47-52, 53-58, 59-64; Topic 2: 81-86, 87-92, 93-98, 99-104</p> <p>TE: Topic 1: 5A, 11A, 17A, 23A, 29A, 35A, 41A, 47A, 53A, 59A; Topic 2: 81A, 87A, 93A, 99A</p>
<p>Standard 2.OA.3 Determine whether a group of objects (up to 20) has an odd or even number of members, (<i>for example, by pairing objects or counting them by twos</i>). Write an equation to express an even number as a sum of two equal addends.</p>	<p>SE/TE: Topic 2: 81-86, 87-92</p> <p>TE: Topic 2: 81A, 87A</p>
<p>Standard 2.OA.4 Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.</p>	<p>SE/TE: Topic 2: 93-98, 99-104, 105-110; Topic 15: 883-888, 901-906</p> <p>TE: Topic 2: 93A, 99A, 105A; Topic 15: 883A, 901A</p>
<p>NUMBER AND OPERATIONS IN BASE TEN (2.NBT) Understand place value (Standards 2.NBT.1–4). Use place value understanding and properties of operations to add and subtract (Standards 2.NBT.5–9).</p>	
<p>Standard 2.NBT.1 Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; <i>for example, 706 equals 7 hundreds, 0 tens, and 6 ones</i>. Understand the following as special cases:</p>	<p>SE/TE: Topic 9: 511-516, 517-522, 523-528, 529-534, 535-540</p> <p>TE: Topic 9: 511A, 517A, 523A, 529A, 535A</p>

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a. 100 can be thought of as a bundle of ten tens called a "hundred."	SE/TE: Topic 9: 511-516, 535-540 TE: Topic 9: 511A, 535A
b. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones).	SE/TE: Topic 9: 511-516 TE: Topic 9: 511A
Standard 2.NBT.2 Count within 1,000; skip-count by fives, tens, and hundreds.	SE/TE: Topic 8: 443-448, 449-454, 455-460, 473-478, 479-484, 485-490; Topic 9: 541-546, 547-552, 565-570 TE: Topic 8: 443A, 449A, 455A, 473A, 479A, 485A; Topic 9: 541A, 547A, 565A
Standard 2.NBT.3 Read and write numbers to 1,000 using base-ten numerals, number names, and expanded form.	SE/TE: Topic 9: 517-522, 523-528, 529-534, 535-540 TE: Topic 9: 517A, 523A, 529A, 535A
Standard 2.NBT.4 Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using $>$, $=$, and $<$ symbols to record the results of comparisons.	SE/TE: Topic 9: 553-558, 559-564, 565-570 TE: Topic 9: 553A, 559A, 565A
Standard 2.NBT.5 Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.	SE/TE: Topic 3: 123-128, 129-134, 135-140, 141-146, 147-152, 153-158, 159-164, 171-176; Topic 4: 193-198, 199-204, 205-210, 211-216, 223-228, 235-240; Topic 5: 255-260, 261-266, 267-272, 273-278, 279-284, 285-290, 291-296, 303-308; Topic 6: 323-328, 329-334, 335-340, 341-346, 347-352, 353-358, 359-364 TE: Topic 3: 123A, 129A, 135A, 141A, 147A, 153A, 159A, 171A; Topic 4: 193A, 199A, 205A, 211A, 223A, 235A; Topic 5: 255A, 261A, 267A, 273A, 279A, 285A, 291A, 303A; Topic 6: 323A, 329A, 335A, 341A, 347A, 353A, 359A

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Standard 2.NBT.6 Add up to four two-digit numbers using strategies based on place value and properties of operations.	SE/TE: Topic 3: 159-164; Topic 4: 217-222, 223-228 TE: Topic 3: 159A; Topic 4: 217A, 223A
Standard 2.NBT.7 Add and subtract within 1,000 using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, and ones and ones, and that it is sometimes necessary to compose or decompose tens or hundreds.	SE/TE: Topic 10: 591-596, 597-602, 603-608, 609-614, 615-620, 621-626; Topic 11: 643-648, 649-654, 655-660, 661-666, 667-672, 673-678 TE: Topic 10: 591A, 597A, 603A, 609A, 615A, 621A; Topic 11: 643A, 649A, 655A, 661A, 667A, 673A
Standard 2.NBT.8 Mentally add 10 or 100 to a given number 100-900, and mentally subtract 10 or 100 from a given number 100-900.	SE/TE: Topic 9: 541-546, 565-570; Topic 10: 585-590; Topic 11: 637-642 TE: Topic 9: 541A, 565A; Topic 10: 585A; Topic 11: 637A
Standard 2.NBT.9 Explain why addition and subtraction strategies work, using place value and the properties of operations. Explanations may be supported by drawings or objects.	SE/TE: Topic 3: 123-128, 129-134, 135-140, 141-146, 147-152, 159-164; Topic 4: 193-198, 199-204, 205-210, 211-216, 217-222, 223-228; Topic 5: 255-260, 261-266, 267-272, 273-278, 279-284, 285-290, 291-296; Topic 6: 323-328, 329-334, 335-340, 341-346, 347-352, 353-358, 359-364, 371-376; Topic 10: 585-590, 591-596, 603-608, 609-614, 615-620, 621-626; Topic 11: 637-642, 643-648, 649-654, 655-660, 661-666, 667-672, 673-678 TE: Topic 3: 123A, 129A, 135A, 141A, 147A, 159A; Topic 4: 193A, 199A, 205A, 211A, 217A, 223A; Topic 5: 255A, 261A, 267A, 273A, 279A, 285A, 291A; Topic 6: 323A, 329A, 335A, 341A, 347A, 353A, 359A, 371A; Topic 10: 585A, 591A, 603A, 609A, 615A, 621A; Topic 11: 637A, 643A, 649A, 655A, 661A, 667A, 673A

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MEASUREMENT AND DATA (2.MD) Measure and estimate lengths in standard units (Standards 2.MD.1–4) and relate addition and subtraction to length (Standards 2.MD.5–6). Work with time and money (Standards 2.MD.7–8) . Represent and interpret data (Standards 2.MD.9–10) .	
Standard 2.MD.1 Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.	SE/TE: Topic 12: 699-704, 705-710, 711-716, 717-722, 723-728, 729-734, 741-746; Topic 14: 803-808, 809-814 TE: Topic 12: 699A, 705A, 711A, 717A, 723A, 729A, 741A; Topic 14: 803A, 809A
Standard 2.MD.2 Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen.	SE/TE: Topic 12: 711-716, 729-734 TE: Topic 12: 711A, 729A
Standard 2.MD.3 Estimate lengths using units of inches, feet, centimeters, and meters.	SE/TE: Topic 12: 693-698, 699-704, 705-710, 717-722, 723-728, 741-746 TE: Topic 12: 693A, 699A, 705A, 717A, 723A, 741A
Standard 2.MD.4 Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit. <i>For example, after measuring a pencil and a crayon, a student uses the measurements to determine that the pencil is two inches longer than the crayon.</i>	SE/TE: Topic 12: 735-740 TE: Topic 12: 735A
Standard 2.MD.5 Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units. <i>For example, use drawings (such as drawings of rulers) and equations with a symbol for the unknown number to represent the problem.</i>	SE/TE: Topic 12: 735-740; Topic 13: 761-766, 767-772, 773-778, 785-790 TE: Topic 12: 735A; Topic 13: 761A, 767A, 773A, 785A

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Standard 2.MD.6 Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2... Represent whole number sums and differences within 100 on a number line diagram.	SE/TE: Topic 13: 779-784, 785-790 TE: Topic 13: 779A, 785A
Standard 2.MD.7 Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.	SE/TE: Topic 8: 473-478, 479-484, 485-490 TE: Topic 8: 473A, 479A, 485A
Standard 2.MD.8 Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately. <i>For example, if you have 2 dimes and 3 pennies, how many cents do you have?</i>	SE/TE: Topic 8: 443-448, 449-454, 455-460, 461-466, 467-472 TE: Topic 8: 443A, 449A, 455A, 461A, 467A
Standard 2.MD.9 Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.	SE/TE: Topic 14: 803-808, 809-814 TE: Topic 14: 803A, 809A
Standard 2.MD.10 Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and comparison problems using information presented in a bar graph.	SE/TE: Topic 14: 815-820, 821-826, 827-832, 833-838 TE: Topic 14: 815A, 821A, 827A, 833A
GEOMETRY (2.G) Reason with shapes and their attributes (Standards 2.G.1–3).	
Standard 2.G.1 Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Sizes are compared directly or visually, not compared by measuring. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.	SE/TE: Topic 15: 859-864, 865-870, 871-876, 877-882 TE: Topic 15: 859A, 865A, 871A, 877A

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<p>Standard 2.G.2 Partition a rectangle into rows and columns of same-size squares and count to find the total number of squares.</p>	<p>SE/TE: Topic 15: 883-888, 901-906 TE: Topic 15: 883A, 901A</p>
<p>Standard 2.G.3 Partition circles and rectangles into two, three, or four equal shares; describe the shares using the words <i>halves</i>, <i>thirds</i>, <i>half of</i>, <i>a third of</i>, etc.; and describe the whole as two halves, three thirds, or four fourths. Recognize that equal shares of identical wholes need not have the same shape.</p>	<p>SE/TE: Topic 15: 889-894, 895-900, 901-906 TE: Topic 15: 889A, 895A, 901A</p>