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To the

**New York State Next Generation
Mathematics Learning Standards
Grade 4**

SAVVAS

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New York State Next Generation Mathematics Learning Standards Grade 4	enVisionmath2.0 ©2017 Grade 4
Mathematical Practices	
<p>1. Make sense of problems and persevere in solving them.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 4, for example please see: SE: F21; Topic 1: 32; Topic 2: 60, 70; Topic 3: 152; Topic 4: 232; Topic 5: 284; Topic 6: 334; Topic 7: 394; Topic 8: 429, 435; Topic 9: 484; Topic 10: 578; Topic 11: 598; Topic 12: 651; Topic 13: 704; Topic 14: 740, 746; Topic 15: 806; Topic 16: 846</p> <p>TE: F21-F21A; Topic 1: 32; Topic 2: 60, 70; Topic 3: 152; Topic 4: 232; Topic 5: 284; Topic 6: 334; Topic 7: 394; Topic 8: 429, 435; Topic 9: 484; Topic 10: 578; Topic 11: 598; Topic 12: 651; Topic 13: 704; Topic 14: 740, 746; Topic 15: 806; Topic 16: 846</p>
<p>2. Reason abstractly and quantitatively.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 4, for example please see: SE: F22; Topic 1: 7-8; Topic 2: 78-80; Topic 3: 154; Topic 4: 172-174; Topic 5: 302-304, 308; Topic 6: 329; Topic 7: 376-377; Topic 8: 423; Topic 9: 514, 520; Topic 10: 544; Topic 11: 592; Topic 12: 652; Topic 13: 720; Topic 14: 746; Topic 15: 777, 795; Topic 16: 834</p> <p>TE: F22-F22A; Topic 1: 7-8; Topic 2: 78-80; Topic 3: 154; Topic 4: 172-174; Topic 5: 302-304, 308; Topic 6: 329; Topic 7: 376-377; Topic 8: 423A-423; Topic 9: 514, 520; Topic 10: 544; Topic 11: 592; Topic 12: 652; Topic 13: 720; Topic 14: 746; Topic 15: 777A-777, 795A-795; Topic 16: 834</p>

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<p>3. Construct viable arguments and critique the reasoning of others.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 4, for example please see: SE: F23; Topic 1: 33-34; Topic 2: 70; Topic 3: 132, 136; Topic 4: 192; Topic 5: 296-297; Topic 6: 334; Topic 7: 370; Topic 8: 442, 447; Topic 9: 502; Topic 10: 562; Topic 11: 598; Topic 12: 640; Topic 13: 711; Topic 14: 734; Topic 15: 784, 788; Topic 16: 851</p> <p>TE: F23-F23A; Topic 1: 33-34; Topic 2: 70; Topic 3: 132, 136; Topic 4: 192; Topic 5: 296-297; Topic 6: 334; Topic 7: 370; Topic 8: 442, 447; Topic 9: 502; Topic 10: 562; Topic 11: 598; Topic 12: 640; Topic 13: 711; Topic 14: 734; Topic 15: 784, 788; Topic 16: 851</p>
<p>4. Model with mathematics.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 4, for example please see: SE: F24; Topic 1: 17, 22; Topic 2: 80; Topic 3: 150-152; Topic 4: 208; Topic 5: 307, 309-310; Topic 6: 346; Topic 8: 430; Topic 9: 526-528, 529; Topic 10: 573; Topic 11: 592; Topic 12: 628; Topic 13: 718, 720; Topic 15: 806; Topic 16: 846, 850</p> <p>TE: F24-F24A; Topic 1: 17A-17, 22; Topic 2: 80; Topic 3: 150-152; Topic 4: 208; Topic 5: 307, 309-310; Topic 6: 346; Topic 8: 430; Topic 9: 526-528, 529; Topic 10: 573A-573; Topic 11: 592; Topic 12: 628; Topic 13: 718, 720; Topic 15: 806; Topic 16: 846, 850</p>

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<p>5. Use appropriate tools strategically.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 4, for example please see: SE: F25; Topic 1: 8, 23; Topic 2: 76; Topic 3: 119; Topic 4: 177; Topic 5: 277-278; Topic 6: 327; Topic 7: 375; Topic 8: 450; Topic 9: 465-466, 471-472; Topic 10: 567; Topic 11: 603; Topic 12: 642, 645; Topic 13: 697; Topic 14: 738; Topic 15: 789; Topic 16: 839</p> <p>TE: F25-F25A; Topic 1: 8, 27-28; Topic 2: 76; Topic 3: 119; Topic 4: 177; Topic 5: 277-278; Topic 6: 327; Topic 7: 375; Topic 8: 450; Topic 9: 465-466, 471-472; 10: 567; Topic 11: 603; Topic 12: 642, 645; Topic 13: 697; Topic 14: 738; Topic 15: 789, Topic 16: 839</p>
<p>6. Attend to precision.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 4, for example please see: SE: F26; Topic 1: 5; Topic 2: 52, 54; Topic 3: 143, 149; Topic 4: 226, 234; Topic 5: 310; Topic 6: 354; Topic 7: 388; Topic 8: 429; Topic 10: 573, 578; Topic 11: 597; Topic 12: 660; Topic 13: 715-718; Topic 14: 746; Topic 15: 790-791; Topic 16: 828</p> <p>TE: F26-F26A; Topic 1: 5A-5; Topic 2: 52, 54; Topic 3: 143A-143, 149; Topic 4: 226, 234; Topic 5: 310; Topic 6: 354; Topic 7: 388; Topic 8: 429; Topic 10: 573, 578; Topic 11: 597A-597; Topic 12: 660; Topic 13: 715A-718; Topic 14: 746; Topic 15: 790-791; Topic 16: 828</p>

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<p>7. Look for and make use of structure.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 4, for example please see: SE: F27; Topic 1: 6, 18; Topic 2: 49; Topic 3: 127; Topic 4: 171; Topic 6: 340; Topic 8: 418; Topic 9: 490, 514; Topic 10: 551, 563; Topic 11: 591; Topic 12: 658-660, 661; Topic 13: 679; Topic 14: 752-754; Topic 15: 790, 795; Topic 16: 840</p> <p>TE: F27-F27A; Topic 1: 6, 18; Topic 2: 49; Topic 3: 127; Topic 4: 171A-171; Topic 6: 340; Topic 8: 418; Topic 9: 490, 514; Topic 10: 551, 563; Topic 11: 591A-591; Topic 12: 658-660, 661; Topic 13: 679A-679; Topic 14: 752-754; Topic 15: 790, 795A-795; Topic 16: 840</p>
<p>8. Look for and express regularity in repeated reasoning.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 4, for example please see: SE: F28; Topic 1: 11; Topic 2: 71; Topic 3: 138; Topic 4: 196, 225; Topic 5: 312; Topic 7: 381-383, 387-388; Topic 8: 435; Topic 9: 501; Topic 10: 550; Topic 11: 603; Topic 12: 651-652; Topic 13: 680-681, 692; Topic 14: 734; Topic 15: 784, 788; Topic 16: 838</p> <p>TE: F28-F28A; Topic 1: 11A-11; Topic 2: 71A-71; Topic 3: 138; Topic 4: 196, 225A-225; Topic 5: 312; Topic 7: 381A-383, 387-388; Topic 8: 435A-435; Topic 9: 501; Topic 10: 550; Topic 11: 603A-603; Topic 12: 651A-652; Topic 13: 680-681, 692; Topic 14: 734; Topic 15: 784, 788; Topic 16: 838</p>

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NY-4.OA Operations and Algebraic Thinking	
Use the four operations with whole numbers to solve problems.	
1. Interpret a multiplication equation as a comparison. Represent verbal statements of multiplicative comparisons as multiplication equations.	SE: Topic 6: 327-332, 333-338; Reteaching: 359, Sets A-B TE: Topic 6: 327A-332, 333A-338; Reteaching: 359, Sets A-B
2. Multiply or divide to solve word problems involving multiplicative comparison, distinguishing multiplicative comparison from additive comparison. Use drawings and equations with a symbol for the unknown number to represent the problem.	SE: Topic 6: 327-332, 333-338, 339-344, 345-350, 351-356; Reteaching: 359-360, Sets A-E TE: Topic 6: 327A-332, 333A-338, 339A-344, 345A-350, 351A-356; Reteaching: 359-360, Sets A-E
3. Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted.	SE: Topic 2: 53-58, 59-64, 65-70, 77-82; Reteaching: 85-86, Sets B-D, F; Topic 3: 101-106, 131-136, 137-142, 143-148, 149-154; Reteaching: 157-160, Sets B, F-G; Topic 4: 171-176, 183-188, 195-200, 207-212, 213-218, 219-224, 225-230, 231-236; Reteaching: 239-242, Sets A, C, E, G-J; Topic 5: 277-282, 283-288, 289-294, 307-312; Reteaching: 316-318, Sets D-E, H; Topic 6: 339-344, 345-350, 351-356; Reteaching: 359-360, Sets C-E TE: Topic 2: 53A-58, 59A-64, 65A-70, 77A-82; Reteaching: 85-86, Sets B-D, F; Topic 3: 101A-106, 131A-136, 137A-142, 143A-148, 149A-154; Reteaching: 157-160, Sets B, F-G; Topic 4: 171A-176, 183A-188, 195A-200, 207A-212, 213A-218, 219A-224, 225A-230, 231A-236; Reteaching: 239-242, Sets A, C, E, G-J; Topic 5: 277A-282, 283A-288, 289A-294, 307A-312; Reteaching: 316-318, Sets D-E, H; Topic 6: 339A-344, 345A-350, 351A-356; Reteaching: 359-360, Sets C-E

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<p>a. Represent these problems using equations or expressions with a letter standing for the unknown quantity.</p>	<p>SE: Topic 2: 77-82; Reteaching: 86, Set F; Topic 3: 149-154; Reteaching: 160, Sets H; Topic 4: 225-230, 231-236; Reteaching: 242, Set J</p> <p>TE: Topic 2: 77A-82; Reteaching: 86, Set F; Topic 3: 149A-154; Reteaching: 160, Sets H; Topic 4: 225A-230, 231A-236; Reteaching: 242, Set J</p>
<p>b. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.</p>	<p>SE: Topic 2: 53-58; Reteaching: 85, Set B; Topic 3: 101-106; Reteaching: 157, Set B; Topic 4: 183-188, 189-194; Reteaching: 240, Sets C, D; Topic 5: 259-264, 265-270; Reteaching: 315, Set B</p> <p>TE: Topic 2: 53A-58; Reteaching: 85, Set B; Topic 3: 101A-106; Reteaching: 157, Set B; Topic 4: 183A-188, 189A-194; Reteaching: 240, Sets C, D; Topic 5: 259A-264, 265A-270; Reteaching: 315, Set B</p>
<p>Gain familiarity with factors and multiples.</p>	
<p>4. Find all factor pairs for a whole number in the range 1-100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1-100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1-100 is prime or composite.</p>	<p>SE: Topic 7: 369-374, 375-380, 381-386, 387-392, 393-398; Reteaching: 401-402, Sets A-E</p> <p>TE: Topic 7: 369A-374, 375A-380, 381A-386, 387A-392, 393A-398; Reteaching: 401-402, Sets A-E</p>
<p>Generate and analyze patterns.</p>	
<p>5. Generate a number or shape pattern that follows a given rule. Identify and informally explain apparent features of the pattern that were not explicit in the rule itself.</p>	<p>SE: Topic 14: 733-738, 739-744, 745-750, 751-756 Reteaching: 759-760, Sets A-D</p> <p>TE: Topic 14: 733A-738, 739A-744, 745A-750, 751A-756 Reteaching: 759-760, Sets A-D</p>

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NY-4.NBT Number and Operations in Base Ten	
Generalize place value understanding for multi-digit whole numbers. <i>Note: Grade 4 expectations are limited to whole numbers less than or equal to 1,000,000.</i>	
1. Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.	SE: Topic 1: 11-16, 29-34; Reteaching: 37-38, Sets B, E TE: Topic 1: 11A-16, 29A-34; Reteaching: 37-38, Sets B, E
2a. Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form.	SE: Topic 1: 5-10, 11-16, 17-22, 29-34; Reteaching: 37-38, Sets A-C, E TE: Topic 1: 5A-10, 11A-16, 17A-22, 29A-34; Reteaching: 37-38, Sets A-C, E
2b. Compare two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons.	SE: Topic 1: 17-22; Reteaching: 37, Set C TE: Topic 1: 17A-22; Reteaching: 37, Set C
3. Use place value understanding to round multi-digit whole numbers to any place.	SE: Topic 8: 417-422; Reteaching: 462, Set C TE: Topic 8: 417A-422; Reteaching: 462, Set C
Use place value understanding and properties of operations to perform multi-digit arithmetic. <i>Note: Grade 4 expectations are limited to whole numbers less than or equal to 1, 000,000.</i>	
4. Fluently add and subtract multi-digit whole numbers using a standard algorithm.	SE: Topic 2: 47-52, 53-58, 59-64, 65-70, 71-76, 77-82; Reteaching: 85-85, Sets A-F TE: Topic 2: 47A-52, 53A-58, 59A-64, 65A-70, 71A-76, 77A-82; Reteaching: 85-85, Sets A-F

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<p>5. Multiply a whole number of up to four digits by a one-digit number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p>	<p>SE: Topic 3: 95-100, 101-106, 107-112, 113-118, 119-124, 124-130, 131-136, 137-142, 143-148, 149-154; Reteaching: 157-160, Sets A-H; Topic 4: 171-176, 177-182, 183-188, 189-194, 195-200, 201-206, 207-212, 213-218, 219-224, 225-230, 231-236; Reteaching: 239-242, Sets A-J; Topic 6: 327-332, 333-338, 339-344, 345-350, 351-356; Reteaching: 359-360, Sets A-E; Topic 7: 381-386; Reteaching: 401, Set C; Topic 13: 709-714, 715-720; Reteaching: 724, Sets C-D</p> <p>TE: Topic 3: 95A-100, 101A-106, 107A-112, 113A-118, 119A-124, 124A-130, 131A-136, 137A-142, 143A-148, 149A-154; Reteaching: 157-160, Sets A-H; Topic 4: 171A-176, 177A-182, 183A-188, 189A-194, 195A-200, 201A-206, 207A-212, 213A-218, 219A-224, 225A-230, 231A-236; Reteaching: 239-242, Sets A-J; Topic 6: 327A-332, 333A-338, 339A-344, 345A-350, 351A-356; Reteaching: 359-360, Sets A-E; Topic 7: 381A-386; Reteaching: 401, Set C; Topic 13: 709A-714, 715-720; Reteaching: 724, Sets C-D</p>
<p>6. Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p>	<p>SE: Topic 5: 253-258, 259-264, 265-270, 271-276, 277-282, 283-288, 289-294, 295-300, 301-306, 307-312; Reteaching: 315-318, Sets A-H; Topic 6: 333-338, 339-344, 345-350, 351-356; Reteaching: 359-360, Sets B-E</p> <p>TE: Topic 5: 253A-258, 259A-264, 265A-270, 271A-276, 277A-282, 283A-288, 289A-294, 295A-300, 301A-306, 307A-312; Reteaching: 315-318, Sets A-H; Topic 6: 333A-338, 339A-344, 345A-350, 351A-356; Reteaching: 359-360, Sets B-E</p>

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NY-4.NF Number and Operations – Fractions	
Extend understanding of fraction equivalence and ordering. <i>Note: Grade 4 expectations are limited to fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12, and 100.</i>	
1. Explain why a fraction a/b is equivalent to a fraction $a \times n / b \times n$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions.	SE: Topic 8: 411-416, 417-422, 423-428, 429-434, 435-440, 441-446, 447-452; Reteaching: 455-456, Sets A-D; Topic 11: 597-602; Reteaching: 617, Set B TE: Topic 8: 411A-416, 417A-422, 423A-428, 429A-434, 435A-440, 441A-446, 447A-452; Reteaching: 455-456, Sets A-D; Topic 11: 597A-602; Reteaching: 617, Set B
2. Compare two fractions with different numerators and different denominators. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols $>$, $=$, and $<$, and justify the conclusions.	SE: Topic 8: 435-440, 441-446, 447-452; Reteaching: 456, Sets C-D TE: Topic 8: 435A-440, 441A-446, 447A-452; Reteaching: 456, Sets C-D
Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers. <i>Note: Grade 4 expectations are limited to fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12, and 100.</i>	
3. Understand a fraction a/b with $a > 1$ as a sum of fractions $1/b$.	SE: Topic 9: 465-470, 471-476, 477-482, 483-488, 489-494, 495-500, 501-506, 507-512, 513-518, 519-524, 525-530; Reteaching: 533-534, Sets A-F; Topic 10: 573-578; Reteaching: 582, Set F; Topic 11: 603-608; Reteaching: 618, Set C; Topic 13: 679-684, 685-690, 691-696, 703-708; Reteaching: 723, Sets A-B TE: Topic 9: 465A-470, 471A-476, 477A-482, 483A-488, 489A-494, 495A-500, 501A-506, 507A-512, 513A-518, 519A-524, 525A-530; Reteaching: 533-534, Sets A-F; Topic 10: 573A-578; Reteaching: 582, Set F; Topic 11: 603A-608; Reteaching: 618, Set C; Topic 13: 679A-684, 685A-690, 691A-696, 703A-708; Reteaching: 723, Sets A-B

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<p>a. Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.</p>	<p>SE: Topic 9: 465-470, 477-482, 483-488, 489-494, 495-500, 501-506, 525-530; Reteaching: 533-534, Sets A-D, F</p> <p>TE: Topic 9: 465A-470, 477A-482, 483A-488, 489A-494, 495A-500, 501A-506, 525A-530; Reteaching: 533-534, Sets A-D, F</p>
<p>b. Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation. Justify decompositions.</p>	<p>SE: Topic 9: 471-476; Reteaching: 533, Set A</p> <p>TE: Topic 9: 471A-476; Reteaching: 533, Set A</p>
<p>c. Add and subtract mixed numbers with like denominators.</p>	<p>SE: Topic 9: 507-512, 513-518, 519-524; Reteaching: 534, Set E</p> <p>TE: Topic 9: 507A-512, 513A-518, 519A-524; Reteaching: 534, Set E</p>
<p>d. Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators.</p>	<p>SE: Topic 9: 477-482, 489-494, 525-530; Reteaching: 533-534, Sets A-B, F; Topic 10: 573-578; Reteaching: 582, Set F; Topic 11: 603-608; Reteaching: 618, Set C; Topic 13: 679-684, 685-690, 691-696, 703-708; Reteaching: 723, Sets A-B</p> <p>TE: Topic 9: 477A-482, 489A-494, 525A-530; Reteaching: 533-534, Sets A-B, F; Topic 10: 573A-578; Reteaching: 582, Set F; Topic 11: 603A-608; Reteaching: 618, Set C; Topic 13: 679A-684, 685A-690, 691A-696, 703A-708; Reteaching: 723, Sets A-B</p>

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<p>4. Apply and extend previous understandings of multiplication to multiply a whole number by a fraction.</p>	<p>SE: Topic 10: 543-548, 549-554, 555-560, 561-566, 567-572, 573-578; Reteaching: 581-582, Sets A-F; Topic 13: 679-684, 685-690, 691-696, 703-708, 709-714; Reteaching: 723-724, Sets A-C</p> <p>TE: Topic 10: 543A-548, 549A-554, 555A-560, 561A-566, 567A-572, 573A-578; Reteaching: 581-582, Sets A-F; Topic 13: 679A-684, 685A-690, 691A-696, 703A-708, 709A-714; Reteaching: 723-724, Sets A-C</p>
<p>a. Understand a fraction a/b as a multiple of $1/b$.</p>	<p>SE: Topic 10: 543-548, 549-554, 555-560; Reteaching: 581, Sets A-C</p> <p>TE: Topic 10: 543A-548, 549A-554, 555A-560; Reteaching: 581, Sets A-C</p>
<p>b. Understand a multiple of a/b as a multiple of $1/b$, and use this understanding to multiply a whole number by a fraction.</p>	<p>SE: Topic 10: 549-554, 555-560; Reteaching: 581, Sets B, C</p> <p>TE: Topic 10: 549A-554, 555A-560; Reteaching: 581, Sets B, C</p>
<p>c. Solve word problems involving multiplication of a whole number by a fraction.</p>	<p>SE: Topic 10: 549-554, 555-560, 561-566, 567-572, 573-578; Reteaching: 581-582, Sets B-F; Topic 13: 679-684, 685-690, 691-696, 703-708, 709-714; Reteaching: 723-724, Sets A-C</p> <p>TE: Topic 10: 549A-554, 555A-560, 561A-566, 567A-572, 573A-578; Reteaching: 581-582, Sets B-F; Topic 13: 679A-684, 685A-690, 691A-696, 703A-708, 709A-714; Reteaching: 723-724, Sets A-C</p>

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Understand decimal notation for fractions, and compare decimal fractions.	
<i>Note: Grade 4 expectations are limited to fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12, and 100.</i>	
5. Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100. <i>Note: Students who can generate equivalent fractions can develop strategies for adding fractions with unlike denominators in general. But addition and subtraction with unlike denominators in general is not a requirement at this grade.</i>	SE: Topic 12: 645-650; Reteaching: 666, Set D TE: Topic 12: 645A-650; Reteaching: 666, Set D
6. Use decimal notation for fractions with denominators 10 or 100.	SE: Topic 12: 627-632, 633-638, 651-656; Reteaching: 665-666, Sets A-B, E TE: Topic 12: 627A-632, 633A-638, 651A-656; Reteaching: 665-666, Sets A-B, E
7. Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when two decimals refer to the same whole. Record the results of comparisons with symbols $>$, $=$, and $<$, and justify the conclusions.	SE: Topic 12: 639-644, 657-662; Reteaching: 665-666, Sets C, F TE: Topic 12: 639A-644, 657A-662; Reteaching: 665-666, Sets C, F
NY-4.MD Measurement and Data	
Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	
1. Know relative sizes of measurement units: ft., in.; km, m, cm <ul style="list-style-type: none"> • Know the conversion factor and use it to convert measurements in a larger unit in terms of a smaller unit: ft., in.; km, m, cm; hr., min., sec. • Given the conversion factor, convert all other measurements within a single system of measurement from a larger unit to a smaller unit. • Record measurement equivalents in a two-column table. 	SE: Topic 13: 679-684, 685-690, 691-696, 697-702, 703-708; Reteaching: 723, Sets A-B TE: Topic 13: 679A-684, 685A-690, 691A-696, 697A-702, 703A-708; Reteaching: 723, Sets A-B

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2. Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money.	<p>SE: Topic 10: 567-572, 573-578; Reteaching: 582, Sets E-F; Topic 12: 639-644, 651-656, 657-662; Reteaching: 665-666, Sets C, E-F; Topic 13: 679-684, 685-690, 691-696, 697-702, 703-708, 709-714, 715-720; Reteaching: 723-724, Sets A-D</p> <p>TE: Topic 10: 567A-572, 573A-578; Reteaching: 582, Sets E-F; Topic 12: 639A-644, 651A-656, 657A-662; Reteaching: 665-666, Sets C, E-F; Topic 13: 679A-684, 685A-690, 691A-696, 697A-702, 703A-708, 709A-714, 715A-720; Reteaching: 723-724, Sets A-D</p>
a. Solve problems involving fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit.	<p>Topic 13: 679-684, 685-690, 691-696, 697-702, 703-708, 715-720; Reteaching: 723-724, Sets A-B, D</p> <p>Topic 13: 679A-684, 685A-690, 691A-696, 697A-702, 703A-708; Reteaching: 723-724, Sets A-B, D</p>
b. Represent measurement quantities using diagrams that feature a measurement scale, such as number lines.	<p>Topic 13: 679-684, 685-690, 691-696, 697-702, 703-708, 715-720; Reteaching: 723-724, Sets A-B</p> <p>Topic 13: 679A-684, 685A-690, 691A-696, 697A-702, 703A-708; Reteaching: 723-724, Sets A-B</p>
3. Apply the area and perimeter formulas for rectangles in real world and mathematical problems.	<p>SE: Topic 13: 709-714, 715-720; Reteaching: 724, Sets C-D</p> <p>TE: Topic 13: 709A-714, 715A-720; Reteaching: 724, Sets C-D</p>
Represent and interpret data.	
4. Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). Solve problems involving addition and subtraction of fractions by using information presented in line plots.	<p>SE: Topic 11: 591-596, 597-602, 603-608, 609-614; Reteaching: 617-618, Sets A-D</p> <p>TE: Topic 11: 591A-596, 597A-602, 603A-608, 609A-614; Reteaching: 617-618, Sets A-D</p>

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Geometric measurement: understand concepts of angle and measure angles.	
5. Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand concepts of angle measurement.	SE: Topic 15: 771-776; Reteaching: 809, Set A TE: Topic 15: 771A-776; Reteaching: 809, Set A
a. Recognize an angle is measured with reference to a circle with its center at the common endpoint of the rays, by considering the fraction of the circular arc between the points where the two rays intersect the circle. An angle that turns through $\frac{1}{360}$ of a circle is called a “one-degree angle,” and can be used to measure angles.	SE: Topic 15: 777-782, 783-788; Reteaching: 809, Sets B-C TE: Topic 15: 777A-782, 783A-788; Reteaching: 809, Sets B-C
b. Recognize an angle that turns through n one-degree angles is said to have an angle measure of n degrees.	SE: Topic 15: 783-788; Reteaching: 809, Set C TE: Topic 15: 783A-788; Reteaching: 809, Set C
6. Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure.	SE: Topic 15: 789-794, 801-806; Reteaching: 810, Sets D, F TE: Topic 15: 789A-794, 801A-806; Reteaching: 810, Sets D, F
7. Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems.	SE: Topic 15: 795-800, 801-806; Reteaching: 810, Sets E-F TE: Topic 15: 795A-800, 801A-806; Reteaching: 810, Sets E-F

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NY-4.G Geometry	
Draw and identify lines and angles, and classify shapes by properties of their lines and angles.	
1. Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.	SE: Topic 15: 771-776; Reteaching: 809, Set A; Topic 16: 821-826; Reteaching: 859, Set A TE: Topic 15: 771A-776; Reteaching: 809, Set A; Topic 16: 821A-826; Reteaching: 859, Set A
2a. Identify and name triangles based on angle size (right, obtuse, acute).	SE: Topic 16: 827-832, 833-838, 851-856; Reteaching: 859-860, Sets B-C, F TE: Topic 16: 827A-832, 833A-838, 851A-856; Reteaching: 859-860, Sets B-C, F
2b. Identify and name all quadrilaterals with 2 pairs of parallel sides as parallelograms.	SE: Topic 16: 833-838, 851-856; Reteaching: 860, Set C TE: Topic 16: 833A-838, 851A-856; Reteaching: 860, Set C
2c. Identify and name all quadrilaterals with four right angles as rectangles.	SE: Topic 16: 815, 821-826, 833-838, TE: Topic 16: 815, 821A-826, 833A-838,
3. Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.	SE: Topic 16: 839-844, 845-850; Reteaching: 860, Sets D-E TE: Topic 16: 839A-844, 845A-850; Reteaching: 860, Sets D-E

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