

A Correlation of

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To the
**New York State Next Generation
Mathematics Learning Standards
Grade 3**

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New York State Next Generation Mathematics Learning Standards Grade 3	enVisionmath2.0 ©2017 Grade 3
Mathematical Practices	
<p>1. Make sense of problems and persevere in solving them.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 3, for example please see: SE: F21; Topic 1: 7; Topic 2: 61, 64; Topic 3: 124, 128; Topic 4: 182; Topic 5: 238; Topic 6: 320; Topic 7: 366; Topic 8: 408; Topic 9: 482-484; Topic 10: 548, 552; Topic 11: 577; Topic 12: 610; Topic 13: 698; Topic 14: 746; Topic 15: 812; Topic 16: 854</p> <p>TE: F21-F21A; Topic 1: 7; Topic 2: 61A-61,64; Topic 3: 124, 128; Topic 4: 182; Topic 5: 238; Topic 6: 320; Topic 7: 366; Topic 8: 408; Topic 9: 482-484; Topic 10: 548, 552; Topic 11: 577; Topic 12: 610; Topic 13: 698; Topic 14: 746; Topic 15: 812; Topic 16: 854</p>
<p>2. Reason abstractly and quantitatively.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 3, for example please see: SE: F22; Topic 1: 8, 14; Topic 2: 62; Topic 3: 122; Topic 4: 170; Topic 5: 244, 250; Topic 6: 302; Topic 7: 360; Topic 8: 438; Topic 9: 489; Topic 10: 542; Topic 11: 578; Topic 12: 616, 622; Topic 13: 698; Topic 14: 746; Topic 15: 824-826; Topic 16: 854-855</p> <p>TE: F22-F22A; Topic 1: 8, 14; Topic 2: 62; Topic 3: 122; Topic 4: 170; Topic 5: 244, 250; Topic 6: 302; Topic 7: 360; EM. Topic 8: 438; Topic 9: 489; Topic 10: 542; Topic 11: 578; Topic 12: 616, 622; Topic 13: 698; Topic 14: 746; Topic 15: 824-826; Topic 16: 854-855</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 3, for example please see: SE: F23; Topic 1: 18; Topic 2: 68; Topic 3: 112, 118; Topic 4: 176; Topic 5: 242; Topic 6: 302, 304; Topic 7: 370; Topic 8: 420; Topic 9: 476; Topic 10: 546; Topic 11: 574, 591-594; Topic 12: 610; Topic 13: 698; Topic 14: 746; Topic 15: 818; Topic 16: 872</p> <p>TE: F23-F23A; Topic 1: 18; Topic 2: 68; Topic 3: 112, 118; Topic 4: 176; Topic 5: 242; Topic 6: 302, 304; Topic 7: 370; Topic 8: 420; Topic 9: 476; Topic 10: 546; Topic 11: 574, 591-594; Topic 12: 610; Topic 13: 698; Topic 14: 746; Topic 15: 818; Topic 16: 872</p>
<p>4. Model with Mathematics.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 3, for example please see: SE: F24; Topic 1: 8, 12; Topic 2: 82; Topic 3: 110; Topic 4: 181; Topic 5: 248; Topic 6: 320; Topic 7: 366; Topic 8: 410, 424; Topic 9: 482; Topic 10: 540; Topic 11: 574-576; Topic 12: 618; Topic 13: 680; Topic 14: 752; Topic 15: 823; Topic 16: 848, 872</p> <p>TE: F24-F24A; Topic 1: 8, 12; Topic 2: 82; Topic 3: 110; Topic 4: 181; Topic 5: 248; Topic 6: 320; Topic 7: 366; Topic 8: 410, 424; Topic 9: 482; Topic 10: 540; Topic 11: 574-576; Topic 12: 618 Topic 13: 680; Topic 14: 752; Topic 15: 823; Topic 16: 848, 872</p>

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<p>5. Use appropriate tools strategically.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 3, for example please see: SE: F25; Topic 1: 19; Topic 2: 74, 85; Topic 3: 115-116; Topic 4: 169, Topic 5: 261; Topic 6: 301, 340; Topic 8: 428, 456; Topic 9: 475; Topic 10: 556; Topic 12: 645-646; Topic 13: 673-674; Topic 14: 740, 771-772; Topic 15: 820, 832; Topic 16: 871</p> <p>TE: F25-F25A; Topic 1: 19; Topic 2: 74, 83-84; Topic 3: 115-116; Topic 4: 169, Topic 5: 261; Topic 6: 301, 340; Topic 8: 428, 456; Topic 9: 475; Topic 10: 556; Topic 12: 645-646; Topic 13: 673-674; Topic 14: 743-744, 771-772; Topic 15: 820, 832; Topic 16: 871</p>
<p>6. Attend to precision.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 3, for example please see: SE: F26; Topic 1: 8, 32; Topic 2: 74, 86; Topic 4: 200; Topic 5: 250; Topic 6: 301; Topic 7: 359-360, 362; Topic 8: 418; Topic 9: 488; Topic 10: 545-546; Topic 11: 580; Topic 12: 612; Topic 13: 704; Topic 14: 739; Topic 15: 817, 830-832; Topic 16: 847</p> <p>TE: F26-F26A; Topic 1: 8, 32; Topic 2: 74, 86; Topic 4: 200; Topic 5: 250; Topic 6: 301; Topic 7: 359A-360, 362; Topic 8: 418; Topic 9: 488; Topic 10: 545A-546; Topic 11: 580; Topic 12: 612; Topic 13: 691A, 704; Topic 14: 739A-739; Topic 15: 817, 830-832; Topic 16: 847A-847</p>
<p>7. Look for and make use of structure.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 3, for example please see: SE: F27; Topic 1: 22, 25-26; Topic 2: 61-62; Topic 3: 110-111; Topic 4: 170; Topic 5: 238; Topic 6: 337-340; Topic 7: 386; Topic 8: 405-406, 410; Topic 9: 476-477; Topic 10: 539-540; Topic 11: 586; Topic 12: 609; Topic 13: 674; Topic 15: 812, 828; Topic 16: 860, 882</p> <p>TE: F27-F27A; Topic 1: 25-26; Topic 2: 61A-62; Topic 3: 110-111; Topic 4: 170; Topic 5: 238; Topic 6: 337-340; Topic 7: 386; Topic 8: 405A-406, 410; Topic 9: 476-477; Topic 10: 539A-540; Topic 11: 586; Topic 12: 609A-609; Topic 13: 674; Topic 15: 812, 828; Topic 16: 860, 882</p>

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<p>8. Look for and express regularity in repeated reasoning.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 3, for example please see: SE: F28; Topic 1: 13, 38; Topic 2: 81; Topic 3: 115; Topic 4: 169-171; Topic 5: 237; Topic 6: 322; Topic 7: 382; Topic 8: 411-414; Topic 9: 489, 498; Topic 10: 551; Topic 11: 579; Topic 12: 633; Topic 13: 688; Topic 14: 759-760; Topic 15: 811-812, 818; Topic 16: 853</p> <p>TE: F28-F28A; Topic 1: 13A-13, 38; Topic 2: 81; Topic 3: 115A-115; Topic 4: 169A-171; Topic 5: 237A-237; Topic 6: 322; Topic 7: 382; Topic 8: 411A-414; Topic 9: 489, 498; Topic 10: 551; Topic 11: 579A-579; Topic 12: 633A-633; Topic 13: 688; Topic 14: 759-769; Topic 15: 811A-812, 818; Topic 16: 853A-853</p>
<p>NY-3.OA Operations and Algebraic Thinking</p>	
<p>Represent and solve problems involving multiplication and division.</p>	
<p>1. Interpret products of whole numbers.</p>	<p>SE: Topic 1: 7-12, 13-18, 19-24, 43-48; Reteaching: 51-52, Sets A-C, F; Topic 2: 61-66, 67-72, 73-78, 79-84, 85-90; Reteaching: 99-100, Sets A-E</p> <p>TE: Topic 1: 7A-12, 13A-18, 19A-24, 43A-48; Reteaching: 51-52, Sets A-C, F; Topic 2: 61A-66, 67A-72, 73A-78, 79A-84, 85A-90; Reteaching: 99-100, Sets A-E</p>
<p>2. Interpret whole-number quotients of whole numbers.</p>	<p>SE: Topic 1: 31-36, 37-42, 43-48; Reteaching: 52, Sets E-F</p> <p>TE: Topic 1: 31A-36, 37A-42, 43A-48; Reteaching: 52, Sets E-F</p>

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<p>3. Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities.</p>	<p>SE: Topic 1: 7-12, 13-18, 19-24, 25-30, 31-36, 37-42, 43-48; Reteaching: 51-52, Sets A-F; Topic 2: 61-66, 67-72, 73-78, 79-84, 85-90, 91-96; Reteaching: 99- 100, Sets A-F; Topic 3: 115-120, 121-126, 137-132, 133-138, 139-144, 145-150; Reteaching: 159-160, Sets B-E; Topic 4: 169-174, 175-180, 181-186, 187-192, 193-198, 199-204, 205-210, 211-216, 217-222; Reteaching: 225-228, Sets A-I; Topic 5: 255-260, 261-266, 267-272, 273-278; Reteaching: 288-290, Sets D-G; Topic 7: 359-364, 365-370, 383-388; Reteaching: 391, 393-394, Sets A, C-D</p> <p>TE: Topic 1: 7A-12, 13A-18, 19A-24, 25A-30, 31A-36, 37A-42, 43A-48; Reteaching: 51-52, Sets A-F; Topic 2: 61A-66, 67A-72, 73A-78, 79A-84, 85A-90, 91A-96; Reteaching: 99-100, Sets A-F; Topic 3: 115A-120, 121A-126, 137A-132, 133A-138, 139A-144, 145A-150; Reteaching: 159-160, Sets B-E; Topic 4: 169A-174, 175A-180, 181A-186, 187A-192, 193A-198, 199A-204, 205A-210, 211A-216, 217A-222; Reteaching: 225-228, Sets A-I; Topic 5: 255A-260, 261A-266, 267A-272, 273A-278; Reteaching: 288-290, Sets D-G; Topic 7: 359A-364, 365A-370, 383A-388; Reteaching: 391, 393-394, Sets A, C-D</p>
<p>4. Determine the unknown whole number in a multiplication or division equation relating three whole numbers.</p>	<p>SE: Topic 4: 205-210, 211-216; Reteaching: 227-228, Sets G-H</p> <p>TE: Topic 4: 205A-210, 211A-216; Reteaching: 227-228, Sets G-H</p>

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Understand properties of multiplication and the relationship between multiplication and division.	
5. Apply properties of operations as strategies to multiply and divide. <i>Note: Students need not use formal terms for these properties.</i>	SE: Topic 1: 25-30; Reteaching: 52, Set D; Topic 2: 73-78; Reteaching: 99, Set C; Topic 3: 109-114, 115-120, 121-126, 127-132, 133-138, 139-144, 145-150, 151-156; Reteaching: 159-160, Sets A-F; Topic 4: 199-204; Reteaching: 227, Set F TE: Topic 1: 25A-30; Reteaching: 52, Set D; Topic 2: 73A-78; Reteaching: 99, Set C; Topic 3: 109A-114, 115A-120, 121A-126, 127A-132, 133A-138, 139A-144, 145A-150, 151A-156; Reteaching: 159-160, Sets A-F; Topic 4: 199A-204; Reteaching: 227, Set F
6. Understand division as an unknown-factor problem.	SE: Topic 4: 169-174, 175-180, 181-186, 187-192, 199-204, 205-210; Reteaching: 225-227, Sets A-D, F-G TE: Topic 4: 169A-174, 175A-180, 181A-186, 187A-192, 199A-204, 205A-210; Reteaching: 225-227, Sets A-D, F-G
Multiply and divide within 100.	
7a. Fluently solve single-digit multiplication and related divisions, using strategies such as the relationship between multiplication and division or properties of operations.	SE: Topic 5: 237-242, 243-248, 249-254, 255-260, 261-266, 267-272, 273-278, 279-284; Reteaching: 287-290, Sets A-H TE: Topic 5: 237A-242, 243A-248, 249A-254, 255A-260, 261A-266, 267A-272, 273A-278, 279A-284; Reteaching: 287-290,
7b. Know from memory all products of two one-digit numbers.	SE: Topic 2: 61-66, 67-72, 73-78, 79-84, 85-90, 91-96; Reteaching: 99-100, Sets A-F; Topic 3: 115-120, 121-126, 137-132, 133-138, 139-144, 145-150; Reteaching: 159-160, Sets B-E TE: Topic 2: 61A-66, 67A-72, 73A-78, 79A-84, 85A-90, 91A-96; Reteaching: 99-100, Sets A-F; Topic 3: 115A-120, 121A-126, 137A-132, 133A-138, 139A-144, 145A-150; Reteaching: 159-160, Sets B-E

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Solve problems involving the four operations, and identify and extend patterns in arithmetic.	
8. Solve two-step word problems posed with whole numbers and having whole-number answers using the four operations.	SE: Topic 4: 217-222; Reteaching: 228, Set I; Topic 7: 377-382; Reteaching: 393, Set C; Topic 11: 573-578, 579-584, 585-590, 591-596; Reteaching: 599-600, Sets A-D TE: Topic 4: 217A-222; Reteaching: 228, Set I; Topic 7: 377A-382; Reteaching: 393, Set C; Topic 11: 573A-578, 579A-584, 585A-590, 591A-596; Reteaching: 599-600, Sets A-D
a. Represent these problems using equations or expressions with a letter standing for the unknown quantity.	SE: Topic 1: 7-12, 13-18, 19-24, 25-30, 31-36, 37-42, 43-48; Reteaching: 51-52, Sets A-F; Topic 2: 61-66, 67-72, 73-78, 79-84, 85-90, 91-96; Reteaching: 99-100, Sets A-F; Topic 3: 115-120, 121-126, 137-132, 133-138, 139-144, 145-150; Reteaching: 159-160, Sets B-E; Topic 4: 169-174, 175-180, 181-186, 187-192, 193-198, 199-204, 205-210, 211-216, 217-222; Reteaching: 225-228, Sets A-I; Topic 5: 255-260, 261-266, 267-272, 273-278; Reteaching: 288-290, Sets D-G; Topic 7: 359-364, 365-370, 383-388; Reteaching: 391, 393-394, Sets A, C-D TE: Topic 1: 7A-12, 13A-18, 19A-24, 25A-30, 31A-36, 37A-42, 43A-48; Reteaching: 51-52, Sets A-F; Topic 2: 61A-66, 67A-72, 73A-78, 79A-84, 85A-90, 91A-96; Reteaching: 99-100, Sets A-F; Topic 3: 115A-120, 121A-126, 137A-132, 133A-138, 139A-144, 145A-150; Reteaching: 159-160, Sets B-E; Topic 4: 169A-174, 175A-180, 181A-186, 187A-192, 193A-198, 199A-204, 205A-210, 211A-216, 217A-222; Reteaching: 225-228, Sets A-I; Topic 5: 255A-260, 261A-266, 267A-272, 273A-278; Reteaching: 288-290, Sets D-G; Topic 7: 359A-364, 365A-370, 383A-388; Reteaching: 391, 393-394, Sets A, C-D
b. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	SE: Topic 8: 417-422, 423-428, 429-434, 435-440, 441-446; Reteaching: 463, Sets C-G TE: Topic 8: 417A-422, 423A-428, 429A-434, 435A-440, 441A-446; Reteaching: 463, Sets C-G

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9. Identify and extend arithmetic patterns (including patterns in the addition table or multiplication table).	<p>SE: Topic 2: 61-66, 67-72, 73-78, 79-84, 85-90; Reteaching: 99-100, Sets A-E; Topic 3: 115-120, 121-126, 127-132, 133-138; Reteaching: 159-160, Sets B-D; Topic 4: 193-198; Reteaching: 227, Set E; Topic 5: 237-242; Reteaching: 287, Set A; Topic 8: 411-416; Reteaching: 461, Set B</p> <p>TE: Topic 2: 61A-66, 67A-72, 73A-78, 79A-84, 85A-90; Reteaching: 99-100, Sets A-E; Topic 3: 115A-120, 121A-126, 127A-132, 133A-138; Reteaching: 159-160, Sets B-D; Topic 4: 193A-198; Reteaching: 227, Set E; Topic 5: 237A-242; Reteaching: 287, Set A; Topic 8: 411A-416; Reteaching: 461, Set B</p>
NY-3.NBT Number and Operations in Base Ten	
Use place value understanding and properties of operations to perform multi-digit arithmetic.	
1. Use place value understanding to round whole numbers to the nearest 10-or 100.	<p>SE: Topic 8: 417-422; Reteaching: 462, Set C</p> <p>TE: Topic 8: 417A-422; Reteaching: 462, Set C</p>
2. Fluently add and subtract within 1,000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction. <i>Note: A range of algorithms may be used.</i>	<p>SE: Topic 8: 405-410, 423-438, 429-434, 435-440, 441-446, 447-452, 453-458; Reteaching: 461-464, Sets A, D-I; Topic 9: 475-480, 481-486, 487-492, 493-498, 499-504, 505-510, 511-516, 517-522; Reteaching: 525, 528, Sets A-H</p> <p>TE: Topic 8: 405A-410, 423A-438, 429A-434, 435A-440, 441A-446, 447A-452, 453A-458; Reteaching: 461-464, Sets A, D-I; Topic 9: 475A-480, 481A-486, 487A-492, 493A-498, 499A-504, 505A-510, 511A-516, 517A-522; Reteaching: 525, 528, Sets A-H</p>
3. Multiply one-digit whole numbers by multiples of 10 in the range 10-90 using strategies based on place value and properties of operations.	<p>SE: Topic 10: 539-544, 545-550, 551-556, 557-562; Reteaching: 565-566, Sets A-D</p> <p>TE: Topic 10: 539A-544, 545A-550, 551A-556, 557A-562; Reteaching: 565-566, Sets A-D</p>

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4a. Understand that the digits of a four-digit number represent amounts of thousands, hundreds, tens, and ones.	SE: Topic 9: 475-480, 481-486, 487-492, 493-498; Reteaching: 525, 528, Sets A-D TE: Topic 9: 475A-480, 481A-486, 487A-492, 493A-498; Reteaching: 525, 528, Sets A-D
4b. Read and write four digit numbers using base-ten numerals, number names, and expanded form.	SE: Topic 9: 475-480, 481-486, 487-492, 493-498, 499-504, 505-510, 511-516, 517-522; Reteaching: 525, 528, Sets A-H TE: Topic 9: 475A-480, 481A-486, 487A-492, 493A-498, 499A-504, 505A-510, 511A-516, 517A-522; Reteaching: 525, 528, Sets A-H
NY-3.NF Number and Operations - Fractions	
Develop understanding of fractions as numbers.	
<i>Note: Fractions are limited to those with denominators 2, 3, 4, 6, and 8.</i>	
1. Understand a unit fraction, $1/b$ is the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction a/b as the quantity formed by a parts of size $1/b$.	SE: Topic 12: 609-614, 615-620, 621-626, 651-656; Reteaching: 659-662, Sets A-C, H TE: Topic 12: 609A-614, 615A-620, 621A-626, 651A-656; Reteaching: 659-662, Sets A-C, H
2. Understand a fraction as a number on the number line; represent fractions on a number line.	SE: Topic 12: 627-632, 633-638; Reteaching: 660-661, Sets D, E TE: Topic 12: 627A-632, 633A-638; Reteaching: 660A-661, Sets D, E
a. Represent a fraction $1/b$ on a number line by defining the interval from 0 to 1 as the whole and partitioning it into b equal parts. Recognize that each part has size $1/b$ and that the endpoint of the part starting at 0 locates the number $1/b$ on the number line.	SE: Topic 12: 627-632, 633-638; Reteaching: 660-661, Sets D, E TE: Topic 12: 627A-632, 633A-638; Reteaching: 660A-661, Sets D, E

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b. Represent a fraction a/b on a number line by marking off a lengths $1/b$ from 0. Recognize that the resulting interval has size a/b and that its endpoint locates the number a/b on the number line.	SE: Topic 12: 627-632, 633-638; Reteaching: 660-661, Sets D, E TE: Topic 12: 627A-632, 633A-638; Reteaching: 660A-661, Sets D, E
3. Explain equivalence of fractions and compare fractions by reasoning about their size.	SE: Topic 13: 673-678, 679-684, 709-714, 715-720; Reteaching: 723-726, Sets A-B, G-H TE: Topic 13: 673A-678, 679A-684, 709A-714, 715A-720; Reteaching: 723-726, Sets A-B, G-H
a. Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.	SE: Topic 13: 673-678, 679-684, 709-714; Reteaching: 723-726, Sets A-B, G TE: Topic 13: 673A-678, 679A-684, 709A-714; Reteaching: 723-726, Sets A-B, G
b. Recognize and generate equivalent fractions. Explain why the fractions are equivalent.	SE: Topic 13: 673-678, 679-684, 715-720; Reteaching: 723-726, Sets A-B, H TE: Topic 13: 673A-678, 679A-684, 715A-720; Reteaching: 723-726, Sets A-B, H
c. Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers.	SE: Topic 12: 621-626; Reteaching: 660, Sets C; Topic 13: 709-714; Reteaching: 726, Set G TE: Topic 12: 621A-626; Reteaching: 660, Sets C; Topic 13: 709A-714; Reteaching: 726, Set G
d. Compare two fractions with the same numerator or the same denominator by reasoning about their size. Recognize that comparisons rely on the two fractions referring to the same whole. Record the results of comparisons with the symbols $>$, $=$, $<$, and justify the conclusions.	SE: Topic 13: 785-690, 691-696, 697-702, 703-709, 715-720; Reteaching: 724-726, Sets C-F, H TE: Topic 13: 785A-690, 691A-696, 697A-702, 703A-709, 715A-720; Reteaching: 724-726, Sets C-F, H

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NY-3.MD Measurement and Data	
Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.	
1. Tell and write time to the nearest minute and measure time intervals in minutes. Solve one-step word problems involving addition and subtraction of time intervals in minutes.	SE: Topic 14: 739-744, 745-750, 751-756, 787-792; Reteaching: 795-798, Sets A-C, I TE: Topic 14: 739A-744, 745A-750, 751A-756, 787A-792; Reteaching: 795-798, Sets A-C, I
2a. Measure and estimate liquid volumes and masses of objects using grams (g), kilograms (kg), and liters (l). <i>Note: Does not include compound units such as cm³ and finding the geometric volume of a container.</i>	SE: Topic 14: 757-762, 763-768, 769-774, 775-780, 781-786; Reteaching: 796-798, Sets D-H TE: Topic 14: 757A-762, 763A-768, 769A-774, 775A-780, 781A-786; Reteaching: 796-798, Sets D-H
2b. Add, subtract, multiply, or divide to solve one-step word problems involving masses or liquid volumes that are given in the same units. <i>Note: Does not include multiplicative comparison problems involving notions of “times as much.”</i>	SE: Topic 14: 757-762, 763-768, 769-774, 775-780, 781-786; Reteaching: 796-798, Sets D-H TE: Topic 14: 757A-762, 763A-768, 769A-774, 775A-780, 781A-786; Reteaching: 796-798, Sets D-H
Represent and interpret data.	
3. Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step “how many more” and “how many less” problems using information presented in a scaled picture graph or a scaled bar graph.	SE: Topic 7: 359-364, 365-370, 371-376, 377-382, 383-388; Reteaching: 391-394, Sets A-D TE: Topic 7: 359A-364, 365A-370, 371A-376, 377A-382, 383A-388; Reteaching: 391-394, Sets A-D
4. Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot where the horizontal scale is marked off in appropriate units - whole numbers, halves, or quarters.	SE: Topic 12: 639-644, 645-650; Reteaching: 661-662, Sets F-G TE: Topic 12: 639A-644, 645A-650; Reteaching: 661-662, Sets F-G

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Geometric measurement: understand concepts of area and relate area to multiplication and to addition.	
5. Recognize area as an attribute of plane figures and understand concepts of area measurement.	SE: Topic 6: 301-306, 307-312, 313-318; Reteaching: 345-346, Sets A-C TE: Topic 6: 301A-306, 307A-312, 313A-318; Reteaching: 345-346, Sets A-C
a. Recognize a square with side length 1 unit, called “a unit square,” is said to have “one square unit” of area, and can be used to measure area.	SE: Topic 6: 301-306, 307-312, 313-318; Reteaching: 345-346, Sets A-C TE: Topic 6: 301A-306, 307A-312, 313A-318; Reteaching: 345-346, Sets A-C
b. Recognize a plane figure which can be covered without gaps or overlaps by n unit squares is said to have an area of n square units.	SE: Topic 6: 301-306, 307-312, 313-318; Reteaching: 345-346, Sets A-C TE: Topic 6: 301A-306, 307A-312, 313A-318; Reteaching: 345-346, Sets A-C
6. Measure areas by counting unit squares.	SE: Topic 6: 301-306, 307-312, 313-318; Reteaching: 345-346, Sets A-C TE: Topic 6: 301A-306, 307A-312, 313A-318; Reteaching: 345-346, Sets A-C
7. Relate area to the operations of multiplication and addition.	SE: Topic 6: 319-324, 325-330, 331-336, 337-342; Reteaching: 346-348, Sets D-G; Topic 16: 865-870, 871-876; Reteaching: 886, Set C TE: Topic 6: 319A-324, 325A-330, 331-336, 337A-342; Reteaching: 346-348, Sets D-G; Topic 16: 865A-870, 871A-876; Reteaching: 886, Set C
a. Find the area of a rectangle with whole-number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths.	SE: Topic 6: 319-324, 337-342; Reteaching: 346-348, Sets D, G TE: Topic 6: 319A-324, 337A-342; Reteaching: 346-348, Sets D, G

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b. Multiply side lengths to find areas of rectangles with whole-number side lengths in context of solving real world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning.	SE: Topic 6: 319-324, 337-342; Reteaching: 346-348, Sets D, G; Topic 16: 865-870, 871-876; Reteaching: 886, Set C TE: Topic 6: 319A-324, 337A-342; Reteaching: 346-348, Sets D, G; Topic 16: 865A-870, 871A-876; Reteaching: 886, Set C
c. Use tiling to show in a concrete case that the area of a rectangle with whole-number side length a and side length $b + c$ is the sum of $a \times b$ and $a \times c$. Use area models to represent the distributive property in mathematical reasoning.	SE: Topic 6: 325-330; Reteaching: 347, Set E TE: Topic 6: 325A-330; Reteaching: 347, Set
d. Recognize area as additive. Find areas of figures composed of non-overlapping rectangles, and apply this technique to solve real world problems.	SE: Topic 6: 331-336, 337-342; Reteaching: 348, Sets F-G TE: Topic 6: 331A-336, 337A-342; Reteaching: 348, Sets F-G
Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.	
8a. Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths or finding one unknown side length given the perimeter and other side lengths.	SE: Topic 16: 847-852, 853-858, 859-864, 865-870, 871-876, 877-882; Reteaching: 885-886, Sets A-D TE: Topic 16: 847A-852, 853A-858, 859A-864, 865A-870, 871A-876, 877A-882; Reteaching: 885-886, Sets A-D
8b. Identify rectangles with the same perimeter and different areas or with the same area and different perimeters.	SE: Topic 16: 865-870, 871-876, 877-882; Reteaching: 886, Sets C-D TE: Topic 16: 865A-870, 871A-876, 877A-882; Reteaching: 886, Sets C-D

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NY-3.G Geometry	
Reason with shapes and their attributes.	
1. Recognize and classify polygons based on the number of sides and vertices (triangles, quadrilaterals, pentagons, and hexagons). Identify shapes that do not belong to one of the given subcategories.	SE: Topic 15: 811-816, 817-822, 823-828, 829-834; Reteaching: 837-838, Sets A-D TE: Topic 15: 811A-816, 817A-822, 823A-828, 829A-834; Reteaching: 837-838, Sets A-D
2. Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole.	SE: Topic 12: 609-614, 615-620; Reteaching: 659, Sets A-B TE: Topic 12: 609A-614, 615A-620; Reteaching: 659, Sets A-B

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