

A Correlation of

# enVision<sup>®</sup> Mathematics

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

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**Introduction**

The new enVision® Mathematics ©2020 is the latest offering of the nationally recognized Grades K-12 series, created for print, digital, and blended instruction. Problem-Based Learning connects with Visual Learning to deep conceptual understanding. Interactive multimedia experiences engage learners in student choice and solving rich problems. Extensive customization and differentiation options empower every teacher and student.

**UNDERSTANDING**

A simple lesson design provides a clear, intentional pathway. Starting on a firm foundation of conceptual understanding, students can connect and apply math ideas in amazing ways. High-interest math projects invite all students to be active participants.

A simple lesson design provides a clear, intentional pathway.

STEP 1 Problem-Based Learning

STEP 2 Visual Learning

STEP 3 Assess and Differentiate

**ASSESSMENT**

The enVision Assessment Suite offers options to move students toward mastery of state standards while driving instructional differentiation.

**DIAGNOSTIC Assessment**

Reading Test, Diagnostic Test (Math Diagnosis and Intervention System), Review What You Know

**FORMATIVE Assessment**

SCOUT Observational Assessment used during Solve & Share, Do You Understand? And Convince Me! Guide Practice, Quick Check

**SUMMATIVE Assessment**

Topic Assessments, Topic Performance Assessments, Examview Test Generator, Fluency Assessments, Cumulative/Benchmarks Assessments, Progress Monitoring Assessments

**INSTRUCTIONAL SUPPORT**

Gain a new perspective on your teaching with embedded strategies, methods, and a wide range of Professional Development opportunities in print and digital formats.

Ideas, Inspiration, and Teaching Methods

Math background for every Topic and Lesson serves as an easy-to-access math methods course.

Make every lesson perfect for you. Access all digital content, assessments, and management tools at [SavvasRealize.com](http://SavvasRealize.com).

Kids See the Math. Teachers See Results.

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<b>Mathematical Practices</b>	
<p>1. Make sense of problems and persevere in solving them.</p>	<p><b>enVision Mathematics</b> provides numerous instructional opportunities to help students develop proficiency in the math practices. To get students off to a good start on all eight practices, use the Math Practices and Problem Solving Handbook pages at <a href="http://SavvasRealize.com">SavvasRealize.com</a>, along with the Math Practices Posters, and supporting Math Practices Animations. Each lesson begins with Problem- Based Learning, an activity in which students interact with their peers and teachers to make sense of and decide on a workable solution for a situation. Another feature of each lesson is the set of problem-solving exercises in which students persevere by applying different skills and strategies to solve problems. Each Problem-Solving Lesson provides instruction and practice focused on a specific math practice.</p> <p><b>Student’s Edition and Teacher’s Edition pages</b> 5–8, 9–12, 17–20, 25–28, 41–44, 49–52, 61–64, 81–84, 89–92, 93–96, 97–100, 101–104, 117–120, 121–124, 125–128</p>
<p>2. Reason abstractly and quantitatively.</p>	<p><b>enVision Mathematics</b> provides scaffolded instruction to help students develop both quantitative and abstract reasoning. In the Visual Learning Bridge, students can see how to represent a given situation numerically or algebraically. They will have opportunities later in the lesson to reason abstractly as they endeavor to represent situations symbolically. Reasonableness exercises remind students to compare their work to the original situation. Reasoning problems throughout the exercise sets focus students’ attention on the structure or meaning of an operation, for example, rather than merely the solution.</p> <p><b>Student’s Edition and Teacher’s Edition pages</b> 9–12, 21–24, 45–48, 53–56, 61–64, 93–96, 97–100, 117–120, 121–124, 125–128, 129–132, 133–136, 141–144, 145–148, 149–152</p>

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<p>3. Construct viable arguments and critique the reasoning of others.</p>	<p>Consistent with a focus on reasoning and sense-making is a focus on critical reasoning— argumentation and critique of arguments. In <b>enVision Mathematics</b>, the Problem-Based Learning affords students opportunities to share with classmates their thinking about problems, their solution methods, and their reasoning about the solutions. Many exercises found throughout the program specifically call for students to justify or explain their solutions. The ability to articulate a clear explanation for a process is a stepping stone to critical analysis and reasoning of both the student’s own processes and those of others.</p> <p><b>Student’s Edition and Teacher’s Edition pages</b> 13–16, 25–28, 41–44, 45–48, 57–60, 61–64, 77–80, 101–104, 133–136, 141–144, 149–152, 173–176, 177–180, 189–192, 209–212</p>
<p>4. Model with Mathematics.</p>	<p>Students using <b>enVision Mathematics</b> are introduced to mathematical modeling in the early grades. They first use manipulatives and drawings and then equations to model addition and subtraction situations. The Visual Learning Bridge and Visual Learning Animation Plus often present real-world situations, and students are shown how these can be modeled mathematically. In later grades, students expand their modeling skills to include representations such as tables and graphs, as well as equations.</p> <p><b>Student’s Edition and Teacher’s Edition pages</b> 5–8, 9–12, 17–20, 21–24, 25–28, 61–64, 85–88, 93–96, 125–128, 137–140, 141–144, 181–184, 189–192, 221–224, 225–228</p>

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<p>5. Use appropriate tools strategically.</p>	<p>Students become fluent in the use of a wide assortment of tools ranging from physical objects, including manipulatives, rulers, protractors, and even pencil and paper, to digital tools, such as Online Math Tools and computers. As students become more familiar with the tools available to them, they are able to begin making decisions about which tools are most helpful in a particular situation.</p> <p><b>Student’s Edition and Teacher’s Edition pages</b> 13–16, 25–28, 49–52, 57–60, 81–84, 117–120, 181–184, 209–212, 233–236, 257–260, 317–320, 341–344, 353–356, 357–360, 381–384</p>
<p>6. Attend to precision.</p>	<p>Students are expected to use mathematical terms and symbols with precision. Key terms and concepts are highlighted in each lesson. The Problem-Based Learning activity provides repeated opportunities for students to use precise language to explain their solution paths while solving problems. In the Convince Me! feature, students revisit these key terms or concepts and provide explicit definitions or explanations.</p> <p><b>Student’s Edition and Teacher’s Edition pages</b> 17–20, 49–52, 57–60, 77–80, 137–140, 145–148, 149–152, 169–172, 217–220, 233–236, 253–256, 61–264, 269–272, 305–308, 309–312</p>

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<p>7. Look for and make use of structure.</p>	<p>Students are encouraged to look for structure as they develop solution plans. As students mature in their mathematical thinking, they look for structure in numerical operations by focusing on place value and properties of operations. This focus on looking for and recognizing structure enables students to draw from patterns as they formalize their thinking about the structure of operations.</p> <p><b>Student’s Edition and Teacher’s Edition pages</b> 13–16, 25–28, 41–44, 45–48, 53–56, 77–80, 81–84, 85–88, 89–92, 101–104, 121–124, 129–132, 137–140, 169–172, 177–180</p>
<p>8. Look for and express regularity in repeated reasoning.</p>	<p>Students are prompted to look for repetition in computations to help them develop shortcuts and become more efficient problem solvers. Students are reminded to think about problems they have encountered previously that may share features or processes. They are encouraged to draw on the solution plan developed for such problems, and, as their mathematical thinking matures, to look for and apply generalizations to similar situations. The Problem-Based Learning activities offer students opportunities to look for regularity in the way operations behave.</p> <p><b>Student’s Edition and Teacher’s Edition pages</b> 21–24, 53–56, 97–100, 101–104, 133–136, 145–148, 181–184, 185–188, 221–224, 225–228, 269–272, 293–296, 345–348, 353–356, 389–392</p>

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<b>NY-3.OA Operations and Algebraic Thinking</b>	
<b>Represent and solve problems involving multiplication and division.</b>	
1. Interpret products of whole numbers.	<p><b>SE:</b> 3, 4, 5–8, 9–12, 13–16, 25–28, Reteaching: 31–32 Sets A–C, E; 41–44, 45–48, 49–52, 53–56, 57–60, Reteaching: 67–68 Sets A–E; 185–188, Reteaching: 197–198 Set E</p> <p><b>TE:</b> 3–3A, 4–4C, 5A–8B, 9A–12B, 13A–16B, 25A–28B, Reteaching: 31–32 Sets A–C, E; 41A–44B, 45A–48B, 49A–52B, 53A–56B, 57A–60B, Reteaching: 67–68 Sets A–E; 185A–188B, Reteaching: 197–198 Set E</p>
2. Interpret whole-number quotients of whole numbers.	<p><b>SE:</b> 4, 17–20, 21–24, 25–28, Reteaching: 32 Sets D, E; 185–188, Reteaching: 197–198 Set E</p> <p><b>TE:</b> 4–4C, 17A–20B, 21A–24B, 32, Reteaching: 25A–28B Sets D, E; 185A–188B, Reteaching: 197–198 Set E</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><b>SE:</b> 3, 4, 5–8, 9–12, 13–16, 17–20, 21–24, 25–28, Reteaching: 31–32 Sets A–E; 39–40, 41–44, 45–48, 49–52, 53–56, 57–60, 61–64, Reteaching: 67–68 Sets A–F; 76, 81–84, 85–88, 89–92, 93–96, 97–100, Reteaching: 107–108 Sets B–E; 117–120, 121–124, 125–128, 129–132, 133–136, 137–140, 141–144, 145–148, 149–152, Reteaching: 155–158 Sets A–I; 167, 168, 177–180, 181–184, 185–188, 189–192, Reteaching: 196–198 Sets C–F; 252, 253–256, 257–260, 261–264, 265–268, 269–272, Reteaching: 275–278 Sets A–D; 385–388, Reteaching: 399 Set B; 408, 561–564, Reteaching: 574 Set H; 617–620, Reteaching: 639 Set A</p> <p><b>TE:</b> 3–3A, 4–4C, 5A–8B, 9A–12B, 13A–16B, 17A–20B, 21A–24B, 25A–28B, Reteaching: 31–32 Sets A–E; 39–40A, 41A–44B, 45A–48B, 49A–52B, 53A–56B, 57A–60B, 61A–64B, Reteaching: 67–68 Sets A–F; 76–76C, 81A–84B, 85A–88B, 89A–92B, 93A–96B, 97A–100B, Reteaching: 107–108 Sets B–E; 117A–120B, 121A–124B, 125A–128B, 129A–132B, 133A–136B, 137A–140B, 141A–144B, 145A–148B, 149A–152B, Reteaching: 155–158 Sets A–I; 167–167A, 168–168C, 177A–180B, 181A–184B, 185A–188B, 189A–192B, 195–198, 252–252C, 253A–256B, 257A–260B, 261A–264B, 265A–268B, 269A–272B, Reteaching: 275–278 Sets A–D; 385A–388B, Reteaching: 399 Set B; 408–408C, 561A–564B, Reteaching: 573–574 Set H; 617A–620B, Reteaching: 639 Set A</p>



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4. Determine the unknown whole number in a multiplication or division equation relating three whole numbers.	<b>SE:</b> 141–144, 145–148, Reteaching: Sets 157–158, G, H; 168, 221–224, Reteaching: 240 Set D  <b>TE:</b> 141A–144B, 145A–148B, Reteaching: 157–158 Sets G, H; 168–168C, 221A–224B, Reteaching: 239–240 Set D
<b>Understand properties of multiplication and the relationship between multiplication and division.</b>	
5. Apply properties of operations as strategies to multiply and divide. <i>Note: Students need not use formal terms for these properties.</i>	<b>SE:</b> 4, 13–16, Reteaching: 31–32 Set C; 49–52, Reteaching: 67 Set C; 75, 76, 77–80, 81–84, 85–88, 89–92, 93–96, 97–100, 101–104, Reteaching: 107–108 Sets A–F; 137–140, Reteaching: 157 Set F; 389–392, Reteaching: 400 Set C  <b>TE:</b> 4-4C, 13A–16B, Reteaching: 31–32 Set C; 49A–52B, Reteaching: 67 Set C; 75–75A, 76–76C, 77A–80B, 81A–84B, 85A–88B, 89A–92B, 93A–96B, 97A–100B, 101A–104B, Reteaching: 107–108 Sets A–F; 137A–140B, Reteaching: 157–158 Set F; 389A–392B, Reteaching: 400 Set C
6. Understand division as an unknown-factor problem.	<b>SE:</b> 117–120, 121–124, 125–128, 129–132, 137–140, Reteaching: 155–157 Sets A–D, F, G  <b>TE:</b> 117–120, 121–124, 125–128, 129–132, 137–140, 141–144, Reteaching: 155–157 Sets A–D, F, G
<b>Multiply and divide within 100.</b>	
7a. Fluently solve single-digit multiplication and related divisions, using strategies such as the relationship between multiplication and division or properties of operations.	<b>SE:</b> 49–52, Reteaching: 67 Set C; 76, 77–80, 81–84, 85–88, 89–92, 93–96, 97–100, Reteaching: 107–108 Sets A–E; 117–120, 121–124, 125–128, 129–132, 133–136, 137–140, 141–144, 145–148, Reteaching: 155–158 Sets A–H; 167, 168, 169–172, 173–176, 177–180, 181–184, 185–188, 189–192, Reteaching: 195–198 Sets A–F; 221–224, 225–228, 229–232, 233–236, Reteaching: 240–242 Sets D–G; 297–300, 313–316, Reteaching: 324–325, Sets C, G; 345–348, 349–352, Reteaching: 368–369 Sets C, D; 413–416, 417–420, 421–424, Reteaching: 427–428 Sets B–D; 561–564

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<p>(Continued) 7a. Fluently solve single-digit multiplication and related divisions, using strategies such as the relationship between multiplication and division or properties of operations.</p>	<p><b>TE:</b> 49A–52B, Reteaching: 67 Set C; 76–76C, 77A–80B, 81A–84B, 85A–88B, 89A–92B, 93A–96B, 97A–100B, Reteaching: 107–108 Sets A–E; 117A–120B, 121A–124B, 125A–128B, 129A–132B, 133A–136B, 137A–140B, 141A–144B, 145A–148B, Reteaching: 155–158 Sets A–H; 167–167A, 168–168C, 169A–172B, 173A–176B, 177A–180B, 181A–184B, 185A–188B, 189A–192B, Reteaching: 195–198 Sets A–F; 221A–224B, 225A–228B, 229A–232B, 233A–236B, 239–242, 297A–300B, 313A–316B, Reteaching: 323–326 Sets C G; 345A–348B, 349A–352B, Reteaching: 367–370 Sets C, D; 413A–416B, 417A–420B, 421A–424B, Reteaching: 427–428 Sets B–D; 561A–564B</p>
<p>7b. Know from memory all products of two one-digit numbers.</p>	<p><b>SE:</b> 41-44, 45-48, 49-52, 53-56, 57-60, Reteaching: 67-68 Sets A-E; 85-88, 89-92, 93-96, Reteaching: 107 Sets B-D; 193, 237, 273, 321, 397, 425, 469, 517, 569, 601, 637</p> <p><b>TE:</b> 41A-44B, 45A-48B, 49A-52B, 53A-56B, 57A-60B, Reteaching: 67-68 Sets A-E; 85A-88B, 89A-92B, 93A-96B, Reteaching: 107 Sets B-D; 193, 237, 273, 321, 397, 425, 469, 517, 569, 601, 637</p>

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<b>Solve problems involving the four operations, and identify and extend patterns in arithmetic.</b>	
8. Solve two-step word problems posed with whole numbers and having whole-number answers using the four operations.	<p><b>SE:</b> 149–152, Reteaching: 158 Set I; 168, 253–256, 265–268, Reteaching: 275–277 Sets A, C; 287– 288, 289–292, 297–300, 301–304, 305–308, 313–316, 317–320, Reteaching: 323–326 Sets A, C–E, G, H; 336, 337–340, 341–344, 345–348, 349–352, 353–356, 357–360, 361–364, Reteaching: 367–370 Sets A–G; 381–384, Reteaching: 399 Set A; 407, 408, 409–412, 413–416, 417–420, 421–424, Reteaching: 427–428 Sets A–D; 621–624, 639</p> <p><b>TE:</b> 149A–152B, Reteaching: 157–158 Set I; 168–168C, 253A–256B, 265A–268B, Reteaching: 275–278 Sets A, C; 287–288A, 289A–292B, 297A–300B, 301A–304B, 305A–308B, 313A–316B, 317A–320B, Reteaching: 323–326 Sets A, C–E, G, H; 336–336C, 337A–340B, 341A–344B, 345A–348B, 349A–352B, 353A–356B, 357A–360B, 361A–364B, Reteaching: 367–370 Sets A–G; 381A–384B, Reteaching: 399 Set A; 407–407A, 408–408C, 409A–412B, 413A–416B, 417A–420B, 421A–424B, Reteaching: 427–428 Sets A–D; 621A–624B, Reteaching: 639 Set B</p>
a. Represent these problems using equations or expressions with a letter standing for the unknown quantity.	<p><b>SE:</b> 409–412, 413–416, 417–420, Reteaching: 427–428 Sets A–C; 621–624, Reteaching: 639 Set B</p> <p><b>TE:</b> 409A–412B, 413A–416B, 417A–420B, Reteaching: 427–428 Sets A–C; 621A–624B, Reteaching: 639 Set B</p>

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<p>b. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.</p>	<p><b>SE:</b> 149–152, Reteaching: 158 Set I; 168, 313–316, Reteaching: 325 Sets F, G; 336, 337–340, 341–344, 345–348, 349–352, 353–356, 357–360, 361–364, Reteaching: 367–370 Sets B-G; 409–412, 417–420, 421–424, Reteaching: 427–428 Sets A, D</p> <p><b>TE:</b> 149A–152B, Reteaching: 157–158 Set I 168–168C, 313A–316B, Reteaching: 325 Sets F-G; 336–336C, 337A–340B, 341A–344B, 345A–348B, 349A–352B, 353A–356B, 357A–360B, 361A–364B, Reteaching: 367–370 Set B-G; 409A–412B, 417A–420B, 421A–424B, Reteaching: 427–428 Sets A, D</p>
<p>9. Identify and extend arithmetic patterns (including patterns in the addition table or multiplication table).</p>	<p><b>SE:</b> 41–44, 45–48, 53–56, 57–60, Reteaching: 67–68 Sets A–E; 81–84, 85–88, 89–92, Reteaching: 107–108 Sets B–D; 133–136, Reteaching: 157 Set E; 169–172, 189–192, 195–198, 293–296, Reteaching: Set B; 393–396, Reteaching: 400 Set D</p> <p><b>TE:</b> 41A–44B, 45A–48B, 53A–56B, 57A–60B, Reteaching: 67–68 Sets A–E; 81A–84B, 85A–88B, 89A–92B, Reteaching: 107–108 Sets B–D; 133A–136B, Reteaching: 157–158 Set E; 169A–172B, 189A–192B, Reteaching: 195–198 Sets A, F; 293A–296B, Reteaching: 323–324 Set B; 393A–396B, Reteaching: 400 Set D</p>

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<b>NY-3.NBT Number and Operations in Base Ten</b>	
<b>Use place value understanding and properties of operations to perform multi-digit arithmetic.</b>	
1. Use place value understanding to round whole numbers to the nearest 10-or 100.	<b>SE:</b> 287–288, 305–308, 309–312, Reteaching: 324–325 Sets E, F; 336  <b>TE:</b> 287–288A, 305A–308B, 309A–312B, Reteaching: 323–326 Sets E, F; 336–336C
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>	<b>SE:</b> 287–288, 289–292, 297–300, 301–304, 309–312, 313–316, 317–320, Reteaching: 323–326 Sets A, C, D, F–H; 335, 336, 337–340, 341–344, 345–348, 349–352, 353–356, 357–360, 361–364  <b>TE:</b> 287–288A, 289A–292B, 297A–300B, 301A–304B, 309A–312B, 313A–316B, 317A–320B, Reteaching: 323–326 Sets A, C, D, F–H; 335–335A, 336–336C, 337A–340B, 341A–344B, 345A–348B, 349A–352B, 353A–356B, 357A–360B, 361A–364B
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.	<b>SE:</b> 379–380, 381–384, 385–388, 389–392, 393–396, Reteaching: 399–400 Sets A–D  <b>TE:</b> 379–380A, 381A–384B, 385A–388B, 389A–392B, 393A–396B, Reteaching: 399–400 Sets A–D
4a. Understand that the digits of a four-digit number represent amounts of thousands, hundreds, tens, and ones.	<b>MDIS:</b> A74, A75, A76
4b. Read and write four digit numbers using base-ten numerals, number names, and expanded form.	<b>MDIS:</b> A74, A75, A76

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<b>NY-3.NF Number and Operations - Fractions</b>	
<b>Develop understanding of fractions as numbers.</b>	
<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 $1/b$ .	<b>SE:</b> 435-436, 437-440, 441-444, 445-448, 465-468, Reteaching: 471-474 Sets A-C, H; 484, 585-588, 589-592, Reteaching: 603 Sets A, B  <b>TE:</b> 435-436A, 437A-440B, 441A-444B, 445A-448B, 465A-468B, Reteaching: 471-474 Sets A-C, H; 484-484C, 585A-588B, 589A-592B, Reteaching: 603 Sets A, B
2. Understand a fraction as a number on the number line; represent fractions on a number line.	<b>SE:</b> 435-436, 437-440, 441-444, 445-448, 465-468, Reteaching: 471-474 Sets A-C, H; 484, 585-588, 589-592, Reteaching: , 603 Sets A, B  <b>TE:</b> 435-436A, 437A-440B, 441A-444B, 445A-448B, 465A-468B, Reteaching: 471-474 Sets A-C, H; 484-484C, 585A-588B, 589A-592B, Reteaching: 603 Sets A, B
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.	<b>SE:</b> 435-436, 449-452, 453-456, 457-460, 461-464, Reteaching: 472-474 Sets D-G  <b>TE:</b> 435-436A, 449A-452B, 453A-456B, 457A-460B, 461A-464B, Reteaching: 471-474 Sets D-G
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.	<b>SE:</b> 449-452, 453-456, 457-460, 461-464, Reteaching: 472-474 Sets D-G  <b>TE:</b> 449A-452B, 453A-456B, 457A-460B, 461A-464B, Reteaching: 471-474 Sets D-G
3. Explain equivalence of fractions and compare fractions by reasoning about their size.	<b>SE:</b> 483, 484, 485-488, 489-492, 493-496, 497-500, 501-504, 505-508, 509-512, 513-516, Reteaching: 519-522 Sets A-H  <b>TE:</b> 483-483A, 484-484C, 485A-488B, 489A-492B, 493A-496B, 497A-500B, 501A-504B, 505A-508B, 509A-512B, 513A-516B, Reteaching: 519-522 Sets A-H

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a. Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.	<b>SE:</b> 483, 484, 485–488, 489–492, 505–508, 509–512, Reteaching: 519–522 Sets A, B, F, G <b>TE:</b> 483-483A, 484-484C, 485A–488B, 489A–492B, 505A–508B, 509A–512B, Reteaching: 519–522 Sets A, B, F, G
b. Recognize and generate equivalent fractions. Explain why the fractions are equivalent.	<b>SE:</b> 483, 485–488, 489–492, 513–516, Reteaching: 519–522 Sets A, B, H <b>TE:</b> 483–483A, 485A–488B, 489A–492B, 513A–516B, Reteaching: 519–522 Sets A, B, H
c. Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers.	<b>SE:</b> 445–448, Reteaching: 472 Set C, 484, 509–512, Reteaching: 522 Set G <b>TE:</b> 445A–448B, Reteaching: 471–472 Set C, 484–484C, 509A–512B, Reteaching: 521–522 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.	<b>SE:</b> 483, 493–496, 497–500, 501–504, 513–516, Reteaching: 520–522 Sets C–E, H <b>TE:</b> 483–483A, 493A–496B, 497A–500B, 501A–504B, 513A–516B, Reteaching: 519–522 Sets C–E, H
<b>NY-3.MD Measurement and Data</b>	
<b>Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.</b>	
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.	<b>SE:</b> 531–532, 533–536, 537–540, 541–544, 565–568, Reteaching: 571–574 Sets A–C, I <b>TE:</b> 531–532A, 533A–536B, 537A–540B, 541A–544B, 565A–568B, Reteaching: 571–574 Sets A–C, I

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<p>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 <math>cm^3</math> and finding the geometric volume of a container.</i></p>	<p><b>SE:</b> 309–312, Reteaching: 325 Set F; 531–532, 545–548, 549–552, 553–556, 557–560, 561–564, Reteaching: 572–574 Sets D–H</p> <p><b>TE:</b> 309A–312B, Reteaching: 325–326 Set F; 531–532A, 545A–548B, 549A–552B, 553A–556B, 557A–560B, 561A–564B, Reteaching: 571–574 Sets D–H</p>
<p>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></p>	<p><b>SE:</b> 309–312, Reteaching: 325 Set F; 531–532, 545–548, 549–552, 553–556, 557–560, 561–564, Reteaching: 572–574 Sets D–H</p> <p><b>TE:</b> 309A–312B, Reteaching: 325–326 Set F; 531–532A, 545A–548B, 549A–552B, 553A–556B, 557A–560B, 561A–564B, Reteaching: 571–574 Sets D–H</p>
<b>Represent and interpret data.</b>	
<p>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.</p>	<p><b>SE:</b> 251, 252, 253–256, 257–260, 261–264, 265–268, 269–272, Reteaching: 275–278 Sets A–D; 417–420, Reteaching: 428 Set C</p> <p><b>TE:</b> 251–251A, 252–252C, 253A–256B, 257A–260B, 261A–264B, 265A–268B, 269A–272B, Reteaching: 275–278 Sets A–D; 417A–420B, Reteaching: 428 Set C</p>
<p>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.</p>	<p><b>SE:</b> 435–436, 457–460, 461–464, Reteaching: 473–474 Sets F, G</p> <p><b>TE:</b> 435–436A, 457A–460B, 461A–464B, Reteaching: 473–474 Sets F, G</p>



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<b>Geometric measurement: understand concepts of area and relate area to multiplication and to addition.</b>	
5. Recognize area as an attribute of plane figures and understand concepts of area measurement.	<b>SE:</b> 252 <b>TE:</b> 252-252C
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.	<b>SE:</b> 207–208, 209–212, 213–216, 217–220, Reteaching: 239–240 Sets A–C <b>TE:</b> 207–208A, 209A–212B, 213A–216B, 217A–220B, Reteaching: 239–240 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.	<b>SE:</b> 209–212, 213–216, 217–220, Reteaching: 239–240 Sets A–C; 593–596, Reteaching: 604 Set C <b>TE:</b> 209A–212B, 213A–216B, 217A–220B, Reteaching: 239–240 Sets A–C; 593A–596B, Reteaching: 604 Set C
6. Measure areas by counting unit squares.	<b>SE:</b> , 207–208, 209–212, 213–216, 217–220, Reteaching: 239–240 Sets A–C <b>TE:</b> 207–208A, 209A–212B, 213A–216B, 217A–220B, Reteaching: 239–240 Sets A–C
7. Relate area to the operations of multiplication and addition.	<b>SE:</b> 101–104, Reteaching: 108 Set F, 252 <b>TE:</b> 101A–104B, Reteaching: 108 Set F, 252–252C
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.	<b>SE:</b> 221–224, 233–236, Reteaching: 242 Set G <b>TE:</b> 221A–224B, 233A–236B, Reteaching: 241–242 Set G
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.	<b>SE:</b> 221–224, 233–236, Reteaching: 242 Set G; 597–600, Reteaching: 604 Set D; 625–628, 629–632, Reteaching: 640 Set C <b>TE:</b> 221A–224B, 233A–236B, Reteaching: 241–242 Set G; 597A–600B, Reteaching: 604 Set D; 625A–628B, 629A–632B, Reteaching: 640 Set C

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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.	<b>SE:</b> 225-228, Reteaching: 241 Set E  <b>TE:</b> 225A-228B, Reteaching: 241 Set E
d. Recognize area as additive. Find areas of figures composed of non-overlapping rectangles, and apply this technique to solve real world problems.	<b>SE:</b> 229-232, 233-236, Reteaching: 242 Sets F-G  <b>TE:</b> 229A-232B, 233A-236B, Reteaching: 241-242 Sets F-G
<b>Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.</b>	
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.	<b>SE:</b> 611-612, 613-616, 617-620, 621-624, 625-628, 629-632, 633-636, Reteaching: 639-640 Sets A-D  <b>TE:</b> 611-612A, 613A-616B, 617A-620B, 621A-624B, 625A-628B, 629A-632B, 633A-636B, Reteaching: Sets A-D
8b. Identify rectangles with the same perimeter and different areas or with the same area and different perimeters.	<b>SE:</b> 625-628, 629-630, Reteaching: 640 Set C  <b>TE:</b> 625A-628B, 629A-630B, Reteaching: 640 Set C
<b>NY-3.G Geometry</b>	
<b>Reason with shapes and their attributes.</b>	
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.	<b>SE:</b> 583, 584, 585-588, 589-592, 593-596, 597-600, 603-Reteaching: 604 Sets A-D  <b>TE:</b> 435-436A, 437A-440B, 441A-444B, Reteaching: 471-472 Sets A, B, 584-584C, 585A-588B, 589A-592B, Reteaching: 603 Sets A, B
2. Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole.	<b>SE:</b> 435-436, 437-440, 441-444, Reteaching: 471 Sets A, B; 584, 585-588, 589-592, Reteaching: 603 Sets A, B  <b>TE:</b> 435-436A, 437A-440B, 441A-444B, Reteaching: 471-472 Sets A, B; 584-584C, 585A-588B, 589A-592B, Reteaching: 603 Sets A,