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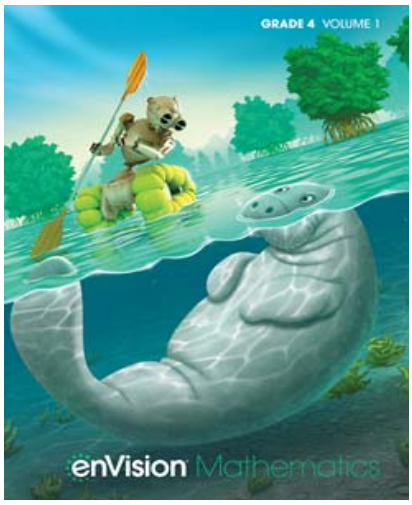

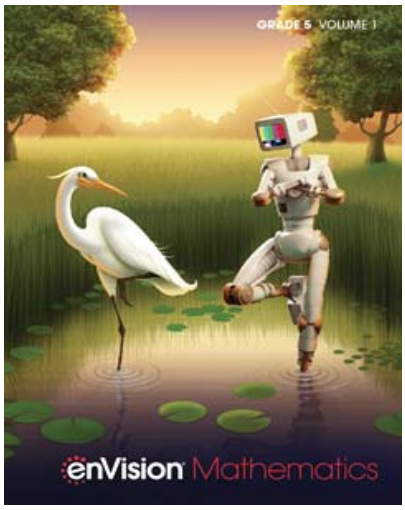

to the

Arizona Mathematics Standards
Kindergarten – Grade 5

SAVVAS

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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.

Kids See the Math. Teachers See Results.

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To the Arizona Mathematics Standards

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Arizona Mathematics Standards Kindergarten	enVision Mathematics, ©2020 Kindergarten
Counting and Cardinality (CC)	
K.CC.A Know number names and the count sequence.	
K.CC.A.1 Count to 100 by ones and by tens.	**SE:** 431, 432, 433–436, 437–440, 441–444, 445–448, 449–452, Reteaching: 455-456 Sets A-C; 465–468, 469–472, 473–476, 477–480 **TE:** 431–431A, 432–432C, 433A–436B, 437A–440B, 441A–444B, 445A–448B, 449A–452B, Reteaching: 455-456 Sets A-C; 465A–468B, 469A–472B, 473A–476B, 477A–480B
K.CC.A.2 Count forward from a given number other than one, within the known sequence (e.g., "Starting at the number 5, count up to 11.").	**SE:** 92, 117–120, Reteaching: 130 Set G; 149–152, 157–160, 248, 347, 348, 365–368, 373–376, Reteaching: 380 Set D; 431, 432, 433–436, 437–440, 441–444, 445–448, 449–452, Reteaching: 456 Set D **TE:** 92–92C, 117A–120B, Reteaching: 129–130 Set G; 149A–152B, 157A–160B, 248–248C, 347–347A, 348–348C, 365A–368B, 373A–376B, Reteaching: 380 Set D; 431–431A, 432–432C, 433A–436B, 437A–440B, 441A–444B, 445A–448B, 449A–452B, Reteaching: 456 Set D
K.CC.A.3 Write numbers from 0 to 20. Represent a number of objects with a written numeral 0 to 20 (with 0 representing a count of no objects).	**SE:** 3, 4, 13–16, 25–28, 33–36, Reteaching: 47, 49 Sets B, E; 59–60, 73–76, 77–80, 91, 92, 97–100, 105–108, 113–116, 121–124, Reteaching: 127-129 Sets A, C, E; 199–200, 201–204, 205–208, 209–212, 213–216, 247, 248, 249–252, 253–256, 257–260, 261–264, 291–292, 317–320, 325–328, 329–332, 347, 348, 349–352, 353–356, 357–360, 361–364, Reteaching: 379 Set A **TE:** 3–3A, 4–4C, 13A–16B, 25A–28B, 33A–36B, Reteaching: 47–50 Sets B, E; 59–60A, 73A–76B, 77A–80B, 91–91A, 92–92C, 97A–100B, 105A–108B, 113A–116B, 121A–124B, Reteaching: 127–130 Sets A, C, E; 199–200A, 201A–204B, 205A–208B, 209A–212B, 213A–216B, 247–247A, 248–248C, 249A–252B, 253A–256B, 257A–260B, 261A–264B, 291–292A, 317A–320B, 325A–328B, 329A–332B, 347–347A, 348–348C, 349A–352B, 353A–356B, 357A–360B, 361A–364B, Reteaching: 379 Set A

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K.CC.B Count to tell the number of objects.	
K.CC.B.4 Understand the relationship between numbers and quantities; connect counting to cardinality.	**SE:** 369–372 **TE:** 369A–372B
a. When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object (one to one correspondence).	**SE:** 3, 4, 5–8, 17–20, 29–32, 37–40, 41–44, Reteaching: 47-50 Sets A, C, F; 91, 92, 93–96, 101–104, 109–112, Reteaching: 127-128 Sets B, D **TE:** 3–3A, 4–4C, 5A–8B, 17A–20B, 29A–32B, 37A–40B, 41A–44B, Reteaching: 47–50 Sets A, C, F; 91–91A, 92–92C, 93A–96B, 101A–104B, 109A–112B, Reteaching: 127–128 Sets B, D
b. Understand that the last number name said tells the number of objects counted. The number of objects is the same regardless of their arrangement or the order in which they were counted (cardinality).	**SE:** 3, 4, 9–12, 21–24, 41–44, Reteaching: 50 Set F; 91, 109–112, 121–124, Reteaching: 127–128 Sets B, D **TE:** 3–3A, 4–4C, 9A–12B, 21A–24B, 41A–44B, Reteaching: 49–50 Set F; 91–91A, 109A–112B, 121A–124B, Reteaching: 127–128 Sets B, D
c. Understand that each successive number name refers to a quantity that is one larger (hierarchical inclusion).	**SE:** 3, 4, 37–40, 91, 117–120, 139–140, 157–160, 347, 365–368 **TE:** 3–3A, 4–4C, 37A–40B, 91–91A, 117A–120B, 139–140A, 157A–160B, 347–347A, 365A–368B
K.CC.B.5 Count to answer questions about "How many?" when 20 or fewer objects are arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1 to 20, count out that many objects.	**SE:** 3, 4, 5–8, 9–12, 13–16, 17–20, 21–24, 25–28, 29–32, 33–36, 41–44, Reteaching: 47- 50 Sets A, C, F; 59–60, 61–64, 65–68, 69–72, 73–76, 91, 92, 93–96, 97–100, 101–104, 105–108, 113–116, 139–140, 141–144, 171, 173–176, 177–180, 199–200, 201–204, 247, 249–252, 347, 348, 349–352, 353–356, 357–360, 361–364, 369–372, 373–376, Reteaching: 379-380 Sets A, C, D; 387–388, 389–392, 393–396, 397–400, 401–404, 405–408, 409–412, 413–416, 513–516, 525–528, 529–532, 533–536

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(Continued) K.CC.B.5 Count to answer questions about "How many?" when 20 or fewer objects are arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1 to 20, count out that many objects.	**TE:** 3–3A, 4–4C, 5A–8B, 9A–12B, 13A–16B, 17A–20B, 21A–24B, 25A–28B, 29A–32B, 33A–36B, 41A–44B, Reteaching: 47–50 Sets A, C, F; 59–60A, 61A–64B, 65A–68B, 69A–72B, 73A–76B, 91–91A, 92–92C, 93A–96B, 97A–100B, 101A–104B, 105A–108B, 113A–116B, 139–140A, 141A–144B, 171–171A,173A–176B, 177A–180B, 199–200A, 201A–204B, 247–247A, 249A–252B, 347–347A, 348-348C, 349A–352B, 353A–356B, 357A–360B, 361A–364B, 369A–372B, 373A–376B, Reteaching: 379-380 Sets A, C, D; 387–388A, 389A–392B, 393A–396B, 397A–400B, 401A–404B, 405A–408B, 409A–412B, 413A–416B, 513A–516B, 525A–528B, 529A–532B, 533A–536B
K.CC.C Compare numbers.	
K.CC.C.6 Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group. (Include groups with up to ten objects.)	**SE:** 61–64, 65–68, 69–72, 73–76, 77–80, Reteaching: 83-84 Sets A-D; 92, 117–120, 139–140, 141–144, 145–148, 149–152, 153–156, Reteaching: 163-164 Sets A-D; 171, 181–184, 185–188, 509–512 **TE:** 61A–64B, 65A–68B, 69A–72B, 73A–76B, 77A–80B, Reteaching: 83–84 Sets A–D; 92–92C, 117A–120B, 139–140A, 141A–144B, 145A–148B, 149A–152B, 153A–156B, Reteaching: 163-164 Sets A-D; 171–171A, 181A–184B, 185A–188B, 509A–512B
K.CC.C.7 Compare two numbers between 0 and 10 presented as written numerals.	**SE:** 139–140, 145–148, 149–152, 153–156, Reteaching: 163-164 Sets B, C; 171, 181–184, 185–188 **TE:** 139–140A, 145A–148B, 149A–152B, 153A–156B, Reteaching: 163-164 Sets B, C; 171–171A, 181A–184B, 185A–188B

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Operations and Algebraic Thinking (OA)	
K.OA.A Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.	
K.0A.A.1 Represent addition and subtraction concretely.	**SE:** 199–200, 201–204, 205–208, 209–212, 213–216, 217–220, 221–224, 225–228, 229–232, Reteaching: 235-236 Sets A-D; 247, 248, 249–252, 253–256, 257–260, 261–264, 265–268, 269–272, 273–276, Reteaching: 279-280 Sets A-D; 291–292, 293–296, 297–300, 301–304, 305–308, 309–312, 313–316, 317–320, 321–324, Reteaching: 335-338 Sets A, C, E-G **TE:** 199–200A, 201A–204B, 205A–208B, 209A–212B, 213A–216B, 217A–220B, 221A–224B, 225A–228B, 229A–232B, Reteaching: 235–236 Sets A–D; 247-247A, 248-248C, 249A–252B, 253A–256B, 257A–260B, 261A–264B, 265A–268B, 269A–272B, 273A–276B, Reteaching: 279-280 Sets A-D; 291–292A, 293A–296B, 297A–300B, 301A–304B, 305A–308B, 309A–312B, 313A–316B, 317A–320B, 321A–324B, Reteaching: 335–338 Sets A, C, E-G
K.0A.A.2 Solve addition and subtraction word problems and add and subtract within 10.	**SE:** 199–200, 201–204, 205–208, 209–212, 213–216, 217–220, 221–224, 229–232, Reteaching: 237-238 Sets E-G; 247, 248, 249–252, 253–256, 257–260, 261–264, 265–268, 273–276, Reteaching: 280-282 Sets C, E, G, H; 291–292, 293–296, 309–312, 313–316, 321–324, 348 **TE:** 199–200A, 201A–204B, 205A–208B, 209A–212B, 213A–216B, 217A–220B, 221A–224B, 229A–232B, Reteaching: 237–238 Sets E, F, G; 247–247A, 248–248C, 249A–252B, 253A–256B, 257A–260B, 261A–264B, 265A–268B, 273A–276B, Reteaching: 279–282 Set C, E, F, H; 291–292A, 293A–296B, 309A–312B, 313A–316B, 321A–324B, 348–348C
K.0A.A.3 Decompose numbers less than or equal to 10 into pairs in more than one way (e.g., using fingers, objects, symbols, tally marks, drawings, expressions).	**SE:** 293-296, 309-312, 313-316, 321-324, 325-328, 329-332 **TE:** 293A-296B, 309A-312B, 313A-316B, 321A–324B, 325A-328B, 329A-332B

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K.0A.A.4 For any number from 1 to 9, find the number that makes 10 when added to the given number (e.g., using fingers, objects, symbols, tally marks, drawings, or equation).	**SE:** 291–292, 325–328, 329–332, Reteaching: 338 Set H; 517–520, 521–524 **TE:** 291–292A, 325A–328B, 329A–332B, Reteaching: 337–338 Set H; 517A–520B, 521A–524B
K.0A.A.5 Fluently add and subtract within 5.	**SE:** 199–200, 225–228, Reteaching: 238 Set H; 247, 269–272, Reteaching: 282 Set G; 291–292, 297–300, 301–304, 305–308, Reteaching: 335-336 Sets B, D **TE:** 199–200A, 225A–228B, Reteaching: 237–238 Set H; 247–247A, 269A–272B, Reteaching: 281–282 Set G; 291–292A, 297A–300B, 301A–304B, 305A–308B, Reteaching: 335–336 Sets B, D
Number and Operations in Base Ten (NBT)	
K.NBT.A Work with numbers 11 to 19 to gain foundations for place value.	
K.NBT.A.1 Compose and decompose numbers from 11 to 19 into ten ones and additional ones by using objects, drawings and/or equations. Understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones (e.g., 18 = 10 + 8).	**SE:** 387–388, 389–392, 393–396, 397–400, 401–404, 405–408, 409–412, 413–416, Reteaching: 419-422 Sets A-G **TE:** 387–388A, 389A–392B, 393A–396B, 397A–400B, 401A–404B, 405A–408B, 409A–412B, 413A–416B, Reteaching: 419–422 Sets A–G
K.NBT.B Use place value understanding and properties of operations to add and subtract.	
K.NBT.B.2 Demonstrate understanding of addition and subtraction within 10 using place value.	**SE:** 387-388, 389-392, 393-396, 397-400, 401-404, 405-408, 409-412, 413-416, Reteaching: 419-422 Sets A-G **TE:** 387A-388B, 389A-392B, 393A-396B, 397A-400B, 401A-404B, 405A-408B, 409A-412B, 413A-416B, Reteaching: 419-422 Sets A-G
Measurement and Data (MD)	
K.MD.A Describe and compare measurable attributes.	
K.MD.A.1 Describe measurable attributes of a single object (e.g., length and weight).	**SE:** 547–548, 549–552, 553–556, 557–560, 561–564, 565–568 **TE:** 547–548A, 549A–552B, 553A–556B, 557A–560B, 561A–564B, 565A–568B

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K.MD.A.2 Directly compare two objects with a measurable attribute in common to see which object has "more of" or "less of" the attribute, and describe the difference (e.g., directly compare the length of 10 cubes to a pencil and describe one as longer or shorter).	**SE:** 547–548, 549–552, 553–556, 557–560, 565–568, 569–572, Reteaching: 575-576 Sets A-D **TE:** 547–548A, 549A–552B, 553A–556B, 557A–560B, 565A–568B, 569A–572B, Reteaching: 575-576 Sets A, B, D
K.MD.B Classify objects and count the number of objects in each category.	
K.MD.B.3 Classify objects into given categories; count the number in each category and sort the categories by count. (Note: limit category counts to be less than or equal to 10.)	**SE:** 171, 172, 173–176, 177–180, 181–184, 185–188, Reteaching: 191-192 Sets A-D; 465–468 **TE:** 171–171A, 172–172C, 173A–176B, 177A–180B, 181A–184B, 185A–188B, Reteaching: 191–192 Sets A–D; 465A–468B
Geometry (G)	
K.G.A Identify and describe shapes.	
K.G.A.1 Describe objects in the environment using names of shapes, and describe the relative positions of these objects using terms such as above, below, beside, in front of, behind, and next to.	**SE:** 463–464, 469–472, 473–476, 477–480, 481–484, 485–488, 489–492, Reteaching: 497-498 Sets F, G; 507, 508, 525–528 **TE:** 463–464A, 469A–472B, 473A–476B, 477A–480B, 481A–484B, 485A–488B, 489A–492B, Reteaching: 497–498 Sets F, G; 507–507A, 508–508C, 525A–528B
K.G.A.2 Correctly name shapes regardless of their orientation or overall size (e.g., circle, triangle, square, rectangle, rhombus, trapezoid, hexagon, cube, cone, cylinder, sphere).	**SE:** 463–464, 469–472, 473–476, 477–480, 481–484, 485–488, 489–492, Reteaching: 495-497 Sets B-E; 508 **TE:** 463–464, 469A–472B, 473A–476B, 477A–480B, 481A–484B, 485A–488B, 489A–492B, Reteaching: 495–498 Sets B–E; 508–508C
K.G.A.3 Identify shapes as two-dimensional (lying in a plane, flat) or three-dimensional (solid).	**SE:** 465–468, 485–488, Reteaching: 495 Set A; 507, 521–524 **TE:** 465A–468B, 485A–488B, Reteaching: 495–496 Set A; 507–507A, 521A–524B

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Standards for Mathematical Practice	
K.MP.1 Make sense of problems and persevere in solving them. Mathematically proficient students explain to themselves the meaning of a problem, look for entry points to begin work on the problem, and plan and choose a solution pathway. While engaging in productive struggle to solve a problem, they continually ask themselves, “Does this make sense?" to monitor and evaluate their progress and change course if necessary. Once they have a solution, they look back at the problem to determine if the solution is reasonable and accurate. Mathematically proficient students check their solutions to problems using different methods, approaches, or representations. They also compare and understand different representations of problems and different solution pathways, both their own and those of others.	**enVision Mathematics** 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 SavvasRealize.com, 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. **Student’s Edition and Teacher’s Edition pages** 21–24, 29–32, 77–80, 145–148, 157–160, 173–176, 181–184, 205–208, 217–220, 225–228, 265–268, 273–276, 297–300, 305–308, 317–320

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K.MP.2 Reason abstractly and quantitatively. Mathematically proficient students make sense of quantities and their relationships in problem situations. Students can contextualize and decontextualize problems involving quantitative relationships. They contextualize quantities, operations, and expressions by describing a corresponding situation. They decontextualize a situation by representing it symbolically. As they manipulate the symbols, they can pause as needed to access the meaning of the numbers, the units, and the operations that the symbols represent. Mathematically proficient students know and flexibly use different properties of operations, numbers, and geometric objects and when appropriate they interpret their solution in terms of the context.	**enVision Mathematics** 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. **Student's Edition and Teacher's Edition pages** 5–8, 9–12, 25–28, 33–36, 41–44, 61–64, 65–68, 93–96, 97–100, 101–104, 113–116, 117–120, 145–148, 149–152, 177–180

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K.MP.3 Construct viable arguments and critique the reasoning of others. Mathematically proficient students construct mathematical arguments (explain the reasoning underlying a strategy, solution, or conjecture) using concrete, pictorial, or symbolic referents. Arguments may also rely on definitions, assumptions, previously established results, properties, or structures. Mathematically proficient students make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. Mathematically proficient students present their arguments in the form of representations, actions on those representations, and explanations in words (oral or written). Students critique others by affirming or questioning the reasoning of others. They can listen to or read the reasoning of others, decide whether it makes sense, ask questions to clarify or improve the reasoning, and validate or build on it. Mathematically proficient students can communicate their arguments, compare them to others, and reconsider their own arguments in response to the critiques of others.	Consistent with a focus on reasoning and sense-making is a focus on critical reasoning—argumentation and critique of arguments. In **enVision Mathematics,** 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. **Student's Edition and Teacher's Edition pages** 5–8, 9–12, 13–16, 17–20, 41–44, 65–68, 69–72, 73–76, 77–80, 93–96, 101–104, 105–108, 109–112, 117–120, 141–144

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K.MP.4 Model with mathematics. Mathematically proficient students apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. When given a problem in a contextual situation, they identify the mathematical elements of a situation and create a mathematical model that represents those mathematical elements and the relationships among them. Mathematically proficient students use their model to analyze the relationships and draw conclusions. They interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.	Students using **enVision Mathematics** 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. **Student's Edition and Teacher's Edition pages** 9–12, 17–20, 21–24, 25–28, 29–32, 69–72, 77–80, 93–96, 109–112, 141–144, 153–156, 201–204, 209–212, 217–220, 221–224
K.MP.5 Use appropriate tools strategically. Mathematically proficient students consider available tools when solving a mathematical problem. They choose tools that are relevant and useful to the problem at hand. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful; recognizing both the insight to be gained and their limitations. Students deepen their understanding of mathematical concepts when using tools to visualize, explore, compare, communicate, make and test predictions, and understand the thinking of others.	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. **Student's Edition and Teacher's Edition pages** 5–8, 13–16, 17–20, 33–36, 41–44, 97–100, 105–108, 109–112, 113–116, 121–124, 149–152, 157–160, 181–184, 205–208, 273–276

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K.MP.6 Attend to precision. Mathematically proficient students clearly communicate to others using appropriate mathematical terminology, and craft explanations that convey their reasoning. When making mathematical arguments about a solution, strategy, or conjecture, they describe mathematical relationships and connect their words clearly to their representations. Mathematically proficient students understand meanings of symbols used in mathematics, calculate accurately and efficiently, label quantities appropriately, and record their work clearly and concisely.	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. **Student's Edition and Teacher's Edition pages** 13–16, 25–28, 29–32, 61–64, 65–68, 73–76, 97–100, 105–108, 149–152, 153–156, 173–176, 177–180, 185–188, 201–204, 213–216
K.MP.7 Look for and make use of structure. Mathematically proficient students use structure and patterns to assist in making connections among mathematical ideas or concepts when making sense of mathematics. Students recognize and apply general mathematical rules to complex situations. They are able to compose and decompose mathematical ideas and notations into familiar relationships. Mathematically proficient students manage their own progress, stepping back for an overview and shifting perspective when needed.	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. **Student's Edition and Teacher's Edition pages** 37–40, 61–64, 117–120, 121–124, 181–184, 225–228, 269–272, 293–296, 317–320, 321–324, 329–332, 357–360, 361–364, 365–368, 369–372

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K.MP.8 Look for and express regularity in repeated reasoning. Mathematically proficient students look for and describe regularities as they solve multiple related problems. They formulate conjectures about what they notice and communicate observations with precision. While solving problems, students maintain oversight of the process and continually evaluate the reasonableness of their results. This informs and strengthens their understanding of the structure of mathematics which leads to fluency.	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. **Student's Edition and Teacher's Edition pages** 21–24, 37–40, 73–76, 113–116, 121–124, 141–144, 157–160, 177–180, 209–212, 269–272, 293–296, 317–320, 325–328, 329–332, 353–356

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Operations and Algebraic Thinking (OA)	
1.OA.A Represent and solve problems involving addition and subtraction.	
1.OA.A.1 Use addition and subtraction within 20 to solve word problems with unknowns in all positions (e.g., by using objects, drawings, and/or equations with a symbol for the unknown number to represent the problem).	**SE:** 3, 4, 5–8, 9–12, 13–16, 17–20, 21–24, 25–28, 29–32, 33–36, 37–40, Reteaching: 43–46 Sets A–H; 55–56, 57–60, 61–64, 81–84, 85–88, Reteaching: 98 Set H; 107, 108, 113–116, 117–120, 121–124, 137–140, 141–144, Reteaching: 149–150 Sets F, G; 161–164, 189–192, 193–196, Reteaching: 202 Sets F, G; 211, 233–236, 261–264, 265–268, 269–272 **TE:** 3–3A, 4–4C, 5A–8B, 9A–12B, 13A–16B, 17A–20B, 21A–24B, 25A–28B, 29A–32B, 33A–36B, 37A–40B, Reteaching: 43–46 Sets A–H; 55–56A, 57A–60B, 61A–64B, 81A–84B, 85A–88B, Reteaching: 97–98 Set H; 107–107A, 108–108C, 113A–116B, 117A–120B, 121A–124B, 137A–140B, 141A–144B, Reteaching: 149–150 Sets F, G; 161A–164B, 189A–192B, 193A–196B, Reteaching: 201–202 Sets F, G; 211–211A, 233A–236B, 261A–264B, 265A–268B, 269A–272B
1.OA.A.2 Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20 (e.g., by using objects, drawings, and/or equations with a symbol for the unknown number to represent the problem).	**SE:** 4, 211, 212, 225–228, 229–232, 252, 261–264, 569–572 **TE:** 4–4C, 211–211A, 212–212C, 225A–228B, 229A–232B, 251–252A, 261A–264B, 569A–572B
1.OA.B Understand and apply properties of operations and the relationship between addition and subtraction.	
1.OA.B.3 Apply properties of operations (commutative and associative properties of addition) as strategies to add and subtract within 20. (Students need not use formal terms for these properties.)	**SE:** 73–76, 89–92, Reteaching: 97 Set E; 108, 109–112, 141–144, 169–172, 211, 212, 225–228, 229–232, Reteaching: 244 Set C **TE:** 73A–76B, 89A–92B, Reteaching: 97–98 Set E; 108–108C, 109A–112B, 141A–144B, 169A–172B, 211–211A, 212–212C, 225A–228B, 229A–232B, Reteaching: 244 Set C

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1.OA.B.4 Understand subtraction as an unknown-addend problem within 20 (e.g., subtract 10 - 8 by finding the number that makes 10 when added to 8).	**SE:** 4, 29–32, 33–36, 81–84, Reteaching: 98 Set G; 108, 159–160, 173–176, 177–180, 181–184, 185–188, Reteaching: 200–201 Sets C–E **TE:** 4–4C, 29A–32B, 33A–36B, 81A–84B, Reteaching: 97–98 Set G; 108–108C, 159–160A, 173A–176B, 177A–180B, 181A–184B, 185A–188B, Reteaching: 199–202 Sets C–E
1.OA.C Add and subtract within 10.	
1.OA.C.5 Relate counting to addition and subtraction (e.g., by using counting on 2 to add 2).	**SE:** 57–60, 61–64, 65–68, 77–80, Reteaching: 95–97 Sets A, C, F; 107, 108, 109–112, 113–116, 117–120, 121–124, Reteaching: 147 Sets A, B; 159–160, 161–164, 185–188, Reteaching: 199, 201 Sets A, E; 211, 213–216, 217–220, 221–224, 251–252, 253–256, 257–260, 533–536, 537–540 **TE:** 57A–60B, 61A–64B, 65A–68B, 77A–80B, Reteaching: 95–98 Sets A, C, F; 107–107A, 108–108C, 109A–112B, 113A–116B, 117A–120B, 121A–124B, Reteaching: 147-148 Sets A, B; 159–160A, 161A–164B, 185A–188B, Reteaching: 199- 202 Sets A, E; 211–211A, 213A–216B, 217A–220B, 221A–224B, 251–252A, 253A–256B, 257A–260B, 533A–536B, 537A–540B
1.OA.C.6 Fluently add and subtract within 10.	**SE:** 55-56, 57–60, 61–64, 65–68, 69-72, 77–80, 81-84, 85-88, 89-92, Reteaching: 95–96 Sets B, D; 107, 108, 117–120, 121–124, 125-128, 129-132, 133-136, 137-140, 141-144, Reteaching: 148-149 Sets C-E; 159–160, 165-168, 169-172, 173-176, 177-180, 181-184, 185–188, Reteaching: 200-201 Sets B, E; 211, 213–216, 251–252 **TE:** 55–56A, 57A–60B, 61A–64B, 65A–68B, 69A–72B, 77A–80B, 81A–84B, 85A–88B, 89A–92B, Reteaching: 95–96 Sets B, D; 107–107A, 108–108C, 117A–120B, 121A–124B, 125A–128B, 129A–132B, 133A–136B,137A–140B, 141A–144B, Reteaching: 147–150 Sets C-E; 159–160A, 165A–168B, 169A–172B, 173A–176B, 177A–180B, 181A–184B, 185A–188B, Reteaching: 199–202 Sets B, E; 211–211A, 213A–216B, 251–252A

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1.OA.D Work with addition and subtraction equations.	
1.OA.D.7 Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false (e.g., Which of the following equations are true and which are false? 6 + 1 = 6 - 1, 7 = 8 - 1, 5 + 2 = 2 + 5, 4 + 1 = 5 + 2).	**SE:** 4, 5–8, 9–12, 13–16, 17–20, 211, 212, 217–220, 221–224, 237–240, Reteaching: 243–244 Sets A, D **TE:** 4–4C, 5A–8B, 9A–12B, 13A–16B, 17A–20B, 211–211A, 212–212C, 217A–220B, 221A–224B, 237A–240B, Reteaching: 243–244 Sets A, D
1.OA.D.8 Determine the unknown whole number in an addition or subtraction equation relating three whole numbers (e.g., determine the unknown number that makes the equation true in each of the equations 8 + □ = 11, 5 = □ - 3, 6 + 6 = □).	**SE:** 211, 212, 213–216, 221–224, 237–240, Reteaching: 243 Set B **TE:** 211–211A, 212–212C, 213A–216B, 221A–224B, 237A–240B, Reteaching: 243 Set B
Number and Operations in Base Ten (NBT)	
1.NBT.A Extend the counting sequence.	
1.NBT.A.1 Count to 120 by 1's, 2's, and 10's starting at any number less than 100. In this range, read and write numerals and represent a number of objects with a written numeral.	**SE:** 283, 284, 285-288, 289–292, 293–296, 297–300, 301–304, 305–308, 309–312, Reteaching: 315–316 Sets B–D; 329–332, 333–336, 337–340, 373–376, 521–524, 525–528, 537–540, 565–568, 577–580, 585–588 **TE:** 283–283A, 284–284C, 285A-288B, 289A–292B, 293A–296B, 297A–300B, 301A–304B, 305A–308B, 309A–312B, Reteaching: 315–316 Sets B–D; 329A–332B, 333A–336B, 337A–340B, 373A–376B, 521A–524B, 525A–528B, 537A–540B, 565A–568B, 577A–580B, 585A–588B
1.NBT.B Understand place value.	
1.NBT.B.2 Understand that the two digits of a two-digit number represent groups of tens and ones. Understand the following as special cases:	**SE:** 323–324, 333–336, 337–340, 341–344, 345–348, 349–352, Reteaching: 355–356 Sets A–C; 364, 409–412, 413–416, 417–420, 457–460, 465–468, 469–472, 521–524, 525–528, 529–532, 533–536, 537–540 **TE:** 323–324A, 333A–336B, 337A–340B, 341A–344B, 345A–348B, 349A–352B, Reteaching: 355–356 Sets A–C; 364–364C, 409A–412B, 413A–416B, 417A–420B, 457A–460B, 465A–468B, 469A–472B, 521A–524B, 525A–528B, 529A–532B, 533A–536B, 537A–540B

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a. 10 can be thought of as a group of ten ones — called a "ten".	**SE:** 284, 285–288, 305–308, 309–312, 323–324, 325–328, 329–332, Reteaching: 355 Set A; 405–408, 421–424, 425–428, 433–436, 573–576 **TE:** 284–284C, 285A–288B, 305A–308B, 309A–312B, 323–324A, 325A–328B, 329A–332B, Reteaching: 355 Set A; 405A–408B, 421A–424B, 425A–428B, 433A–436B, 573A–576B
b. The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones.	**SE:** 325–328, Reteaching: 355 Set A **TE:** 325A–328B, Reteaching: 355 Set A
c. The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).	**SE:** 283, 284, 285–288, 297–300, 305–308, Reteaching: 315 Set A; 329–332, 401–404, 451, 453–456, 461–464, 573–576 **TE:** 283–283A, 284–284C, 285A–288B, 297A–300B, 305A–308B, Reteaching: 315 Set A; 329A–332B, 401A–404B, 451–451A, 453A–456B, 461A–464B, 573A–576B
1.NBT.B.3 Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols >, =, and <.	**SE:** 363, 364, 365–368, 369–372, 373–376, 377–380, 381–384, 385–388, Reteaching: 392 Sets C, D **TE:** 363–363A, 364–364C, 365A–368B, 369A–372B, 373A–376B, 377A–380B, 381A–384B, 385A–388B, Reteaching: 392 Sets C, D
1.NBT.C Use place value understanding and properties of operations to add and subtract.	
1.NBT.C.4 Demonstrate understanding of addition within 100, connecting objects or drawings to strategies based on place value (including multiples of 10), properties of operations, and/or the relationship between addition and subtraction. Relate the strategy to a written form.	**SE:** 399–400, 401–404, 409–412, 413–416, 417–420, 421–424, 425–428, 429–432, 433–436, Reteaching: 439–442 Sets A, C–H; 452 **TE:** 399–400A, 401A–404B, 409A–412B, 413A–416B, 417A–420B, 421A–424B, 425A–428B, 429A–432B, 433A–436B, Reteaching: 439–442 Sets A, C–H; 452–452C

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1.NBT.C.5 Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count.	**SE:** 363, 365–368, 369–372, Reteaching: 391 Sets A, B; 399–400, 405–408, 429–432, Reteaching: 439 Set B; 452, 453–456, 457–460, 461–464, 469–472, 473–476, 477–480, Reteaching: 484 Set C **TE:** 363–363A, 365A–368B, 369A–372B, Reteaching: 391 Sets A, B; 399–400A, 405A–408B, 429A–432B, Reteaching: 439–440 Set B; 452–452C, 453A–456B, 457A–460B, 461A–464B, 469A–472B, 473A–476B, 477A–480B, Reteaching: 484 Set C
1.NBT.C.6 Subtract multiples of 10 in the range of 10 to 90 (positive or zero differences), using objects 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 form.	**SE:** 451, 452, 453–456, 457–460, 461–464, 465–468, 473–476, 477–480, Reteaching: 483–484 Sets A, B, D **TE:** 451–451A, 452–452C, 453A–456B, 457A–460B, 461A–464B, 465A–468B, 473A–476B, 477A–480B, Reteaching: 483–484 Sets A, B, D
Measurement and Data (MD)	
1.MD.A Measure lengths indirectly and by iterating length units.	
1.MD.A.1 Order three objects by length. Compare the lengths of two objects indirectly by using a third object.	**SE:** 491–492, 493–496, 497–500, 505–508, Reteaching: 511 Sets A, B **TE:** 491–492A, 493A–496B, 497A–500B, 505A–508B, Reteaching: 511 Sets A, B
1.MD.A.2 Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. (Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.)	**SE:** 491–492, 501–504, 505–508, Reteaching: 512 Sets C, D; 557–560, 561–564, 581–584 **TE:** 491–492A, 501A–504B, 505A–508B, Reteaching: 512 Sets C, D; 557A–560B, 561A–564B, 581A–584B

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1.MD.B Work with time and money.	
1.MD.B.3a Tell and write time in hours and half-hours using analog and digital clocks.	**SE:** 520, 529–532, 533–536, 537–540, 541–544, Reteaching: 547–548 Sets B–D **TE:** 520–520C, 529A–532B, 533A–536B, 537A–540B, 541A–544B, Reteaching: 547–548 Sets B–D
1.MD.B.3b Identify coins by name and value (pennies, nickels, dimes and quarters).	**SE:** 519, 521-524, 525-528, Reteaching: 547 Set A **TE:** 519-519A, 521A-524B, 525A-528B, Reteaching: 547 Set A
1.MD.C Represent and interpret data.	
1.MD.C.4 Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.	**SE:** 251–252, 253–256, 257–260, 261–264, 265–268, 269–272, Reteaching: 275–276 Sets A, B; 364, 520 **TE:** 251–252A, 253A–256B, 257A–260B, 261A–264B, 265A–268B, 269A–272B, Reteaching: 275–276 Sets A, B; 364–364C, 520–520C
Geometry (G)	
1.G.A Reason with shapes and their attributes.	
1.G.A.1 Distinguish between defining attributes (triangles are closed and 3 sided) versus non-defining attributes (color, orientation, overall size) for two-dimensional shapes; build and draw shapes that possess defining attributes. 1.G.A.2 Compose two-dimensional shapes or three-dimensional shapes to create a composite shape.	**SE:** 555–556, 557–560, 561–564, 565–568, 577–580, 581–584, 589–592, Reteaching: 595–598 Sets A, B, E, G, H; 608 **TE:** 555–556A, 557A–560B, 561A–564B, 565A–568B, 577A–580B, 581A–584B, 589A–592B, Reteaching: 595–598 Sets A, B, E, G, H; 608–608C
1.G.A.3 Partition circles and rectangles into two and four equal shares, describe the shares using the words halves, fourths, and quarters. Describe the whole as two of, or four of the shares. Understand that decomposing into more equal shares creates smaller shares.	**SE:** 607, 608, 609–612, 613–616, 617–620, 621–624, Reteaching: 627–628 Sets A–D **TE:** 607–607A, 608–608C, 609A–612B, 613A–616B, 617A–620B, 621A–624B, Reteaching: 627–628 Sets A–D

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Standards for Mathematical Practice	
1.MP.1 Make sense of problems and persevere in solving them. Mathematically proficient students explain to themselves the meaning of a problem, look for entry points to begin work on the problem, and plan and choose a solution pathway. While engaging in productive struggle to solve a problem, they continually ask themselves, “Does this make sense?" to monitor and evaluate their progress and change course if necessary. Once they have a solution, they look back at the problem to determine if the solution is reasonable and accurate. Mathematically proficient students check their solutions to problems using different methods, approaches, or representations. They also compare and understand different representations of problems and different solution pathways, both their own and those of others.	**enVision Mathematics** 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 SavvasRealize.com, 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. **Student’s Edition and Teacher’s Edition pages** 9–12, 29–32, 33–36, 37–40, 61–64, 85–88, 117–120, 133–136, 137–140, 169–172, 185–188, 189–192, 193–196, 233–236, 253–256

Arizona Mathematics Standards Grade 1	enVision Mathematics, ©2020 Grade 1
1.MP.2 Reason abstractly and quantitatively. Mathematically proficient students make sense of quantities and their relationships in problem situations. Students can contextualize and decontextualize problems involving quantitative relationships. They contextualize quantities, operations, and expressions by describing a corresponding situation. They decontextualize a situation by representing it symbolically. As they manipulate the symbols, they can pause as needed to access the meaning of the numbers, the units, and the operations that the symbols represent. Mathematically proficient students know and flexibly use different properties of operations, numbers, and geometric objects and when appropriate they interpret their solution in terms of the context.	**enVision Mathematics** 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. **Student's Edition and Teacher's Edition pages** 5–8, 9–12, 13–16, 17–20, 21–24, 25–28, 29–32, 65–68, 77–80, 89–92, 109–112, 121–124, 137–140, 141–144, 161–164

Arizona Mathematics Standards Grade 1	enVision Mathematics, ©2020 Grade 1
1.MP.3 Construct viable arguments and critique the reasoning of others. Mathematically proficient students construct mathematical arguments (explain the reasoning underlying a strategy, solution, or conjecture) using concrete, pictorial, or symbolic referents. Arguments may also rely on definitions, assumptions, previously established results, properties, or structures. Mathematically proficient students make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. Mathematically proficient students present their arguments in the form of representations, actions on those representations, and explanations in words (oral or written). Students critique others by affirming or questioning the reasoning of others. They can listen to or read the reasoning of others, decide whether it makes sense, ask questions to clarify or improve the reasoning, and validate or build on it. Mathematically proficient students can communicate their arguments, compare them to others, and reconsider their own arguments in response to the critiques of others.	Consistent with a focus on reasoning and sense-making is a focus on critical reasoning—argumentation and critique of arguments. In **enVision Mathematics**, 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. **Student's Edition and Teacher's Edition pages** 13–16, 21–24, 37–40, 61–64, 65–68, 69–72, 73–76, 89–92, 113–116, 117–120, 125–128, 129–132, 133–136, 141–144, 185–188
1.MP.4 Model with mathematics. Mathematically proficient students apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. When given a problem in a contextual situation, they identify the mathematical elements of a situation and create a mathematical model that represents those mathematical elements and the relationships among them. Mathematically proficient students use their model to analyze the relationships and draw conclusions. They interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.	Students using **enVision Mathematics** 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. **Student's Edition and Teacher's Edition pages** 5–8, 17–20, 21–24, 25–28, 33–36, 57–60, 69–72, 73–76, 81–84, 85–88, 89–92, 113–116, 117–120, 125–128, 137–140

Arizona Mathematics Standards Grade 1	enVision Mathematics, ©2020 Grade 1
1.MP.5 Use appropriate tools strategically. Mathematically proficient students consider available tools when solving a mathematical problem. They choose tools that are relevant and useful to the problem at hand. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful; recognizing both the insight to be gained and their limitations. Students deepen their understanding of mathematical concepts when using tools to visualize, explore, compare, communicate, make and test predictions, and understand the thinking of others.	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**.** **Student's Edition and Teacher's Edition pages** 5–8, 17–20, 29–32, 81–84, 113–116, 129–132, 161–164, 165–168, 177–180, 185–188, 213–216, 293–296, 325–328, 365–368, 369–372
1.MP.6 Attend to precision. Mathematically proficient students clearly communicate to others using appropriate mathematical terminology, and craft explanations that convey their reasoning. When making mathematical arguments about a solution, strategy, or conjecture, they describe mathematical relationships and connect their words clearly to their representations. Mathematically proficient students understand meanings of symbols used in mathematics, calculate accurately and efficiently, label quantities appropriately, and record their work clearly and concisely.	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. **Student's Edition and Teacher's Edition pages** 37–40, 85–88, 189–192, 217–220, 221–224, 237–240, 253–256, 257–260, 261–264, 269–272, 289–292, 305–308, 329–332, 373–376, 377–380

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1.MP.7 Look for and make use of structure. Mathematically proficient students use structure and patterns to assist in making connections among mathematical ideas or concepts when making sense of mathematics. Students recognize and apply general mathematical rules to complex situations. They are able to compose and decompose mathematical ideas and notations into familiar relationships. Mathematically proficient students manage their own progress, stepping back for an overview and shifting perspective when needed.	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. **Student's Edition and Teacher's Edition pages** 9–12, 69–72, 73–76, 77–80, 81–84, 89–92, 129–132, 173–176, 221–224, 225–228, 265–268, 285–288, 293–296, 297–300, 301–304
1.MP.8 Look for and express regularity in repeated reasoning. Mathematically proficient students look for and describe regularities as they solve multiple related problems. They formulate conjectures about what they notice and communicate observations with precision. While solving problems, students maintain oversight of the process and continually evaluate the reasonableness of their results. This informs and strengthens their understanding of the structure of mathematics which leads to fluency.	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. **Student's Edition and Teacher's Edition pages** 13–16, 25–28, 57–60, 61–64, 133–136, 165–168, 169–172, 173–176, 177–180, 181–184, 229–232, 261–264, 285–288, 297–300, 309–312

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Operations and Algebraic Thinking (OA)	
2.OA.A Represent and solve problems involving addition and subtraction.	
2.OA.A.1 Use addition and subtraction within 100 to solve one- and two-step word problems. Represent a word problem as an equation with a symbol for the unknown.	**SE:** 4, 37-40, 41-44, Reteaching: 50 Sets G, H; 77–80, Reteaching: 84 Set D; 92, 113–116, 117–120, Reteaching: 123–125 Sets A-F; 136, 141-144,145–148, 165–168, 169-172, Reteaching: 175-178 Sets B, C, G, H; 187, 188, 213–216, 217–220, Reteaching: 226 Sets G, H; 236, 245–248, 257–260, 261-264, Reteaching: 268-269 Sets C, F; 279, 280, 281-284, 285-288, 289-292, 293–296, 297–300, 309-312, Reteaching: 315-318 Sets A-C, H; 341–344, 345–348, Reteaching: 364–365 Sets B, C; 609–612, 613–616, 617-620, 621-624, 625–628, Reteaching: 631-632 Sets A-D; 649-652, 653-656, 657-660, 661-664, Reteaching: 668, 670 Sets B, D **TE:** 4–4C, 37A–40B, 41A–44B, Reteaching: 49–50 Sets G, H; 77A**–**80B, Reteaching: 84 Set D; 92–92C, 113A–116B, 117A–120B, Reteaching: 123–126 Sets A-F; 136–136A, 141A–144B, 145A–148B, 165A–168B, 169A–172B, Reteaching: 175-178 Sets B, C, G, H; 187–187A, 188–188C, 213A–216B, 217A–220B, Reteaching: 225-226 Sets G, H; 236-236A, 245A–248B, 257A–260B, 261A–264B, Reteaching: 267-270 Sets C, F; 279-279A, 280–280C, 281A–284B, 285A–288B, 289A–292B, 293A–296B, 297A–300B, 309A–312B,Reteaching: 315-318 Sets A-C, H; 341A–344B, 345A–348B, Reteaching: 363–366 Sets B, C; 609A–612B, 613A–616B, 617A–620B, 621A–624B, 625A–628B, Reteaching: 631-632 Sets A-D; 649A-652B, 653A-656B, 657A–660B, 661A–664B, Reteaching: 667–670 Sets B, D

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2.OA.B Add and subtract within 20.	
2.OA.B.2 Fluently add and subtract within 20. By the end of Grade 2, know from memory all sums of two one-digit numbers.	**SE:** 3, 4, 5–8, 9–12, 13–16, 17–20, 21–24, 25–28, 29–32, 33–36, 37–40, 41–44, Reteaching: 47–50 Sets A–H; 60, 61–64, 65–68, 69–72, 73–76, 77–80, Reteaching: 83–84 Sets A–D; 91, 301–304, Reteaching: 317 Set F; 561–564, Reteaching: 595 Set A **TE:** 3–3A, 4–4C, 5A–8B, 9A–12B, 13A–16B, 17A–20B, 21A–24B, 25A–28B, 29A–32B, 33A–36B, 37A–40B, 41A–44B, Reteaching: 47–50 Sets A–H; 60–60A, 61A–64B, 65A–68B, 69A–72B, 73A–76B, 77A–80B, Reteaching: 83–84 Sets A–D; 91–91A, 301A–304B, Reteaching: 317–318 Set F; 561A–564B, Reteaching: 595–596 Set A
2.OA.C Work with equal groups of objects to gain foundations for multiplication.	
2.OA.C.3 Determine whether a group of objects (up to 20) has an odd or even number of members (e.g., by pairing objects or counting them by 2's).	**SE:** 60, 61–64, 65–68, Reteaching: 83 Set A **TE:** 60–60A, 61A–64B, 65A–68B, Reteaching: 83 Set A
2.OA.C.4 Use addition to find the total number of objects arranged in rectangular arrays (with up to 5 rows and 5 columns). Write an equation to express the total as a sum of equal addends.	**SE:** 69–72, 73–76, 77–80, Reteaching: 83–84 Sets B–D; 92, 136, 577–580, 585–588, 589–592, Reteaching: 597–598 Sets E, G, H **TE:** 69A–72B, 73A–76B, 77A–80B, Reteaching: 83–84 Sets B–D; 92–92C, 135–136A, 577A–580B, 585A–588B, 589A–592B, Reteaching: 597–598 Sets E, G, H
Number and Operations in Base Ten (NBT)	
2.NBT.A Understand place value.	
2.NBT.A.1 Understand that the three digits of a three-digit number represent groups of hundreds, tens, and ones (e.g., 706 equals 7 hundreds, 0 tens, and 6 ones and also equals 70 tens and 6 ones). Understand the following as special cases:	**SE:** 376, 381–384, 385–388, 389–392, 405–408, 409–412, Reteaching: 419–422 Sets B, C, G **TE:** 376–376C, 381A–384B, 385A–388B, 389A–392B, 405A–408B, 409A–412B, Reteaching: 419–422 Sets B, C, G

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a. 100 can be thought of as a group of ten tens—called a "hundred."	**SE:** 377–380, 393–396, Reteaching: 419–420 Sets A, D **TE:** 377A–380B, 393A–396B, Reteaching: 419–420 Sets A, D
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:** 377–380, 381–384, 385–388, Reteaching: 419 Set A **TE:** 377A–380B, 381A–384B, 385A–388B, Reteaching: 419–420 Set A
2.NBT.A.2 Count within 1000; skip count by 5's, 10's and 100's.	**SE:** 329–332, 333–336, 337–340, 349–352, 353–356, 357–360, Reteaching: 363–366 Sets A, B, D–F; 375, 376, 397–400, 401–404, 413–416, Reteaching: 421–422 Sets E, F, H; 437–440, 477–480 **TE:** 329A–332B, 333A–336B, 337A–340B, 349A–352B, 353A–356B, 357A–360B, Reteaching: 363–366 Sets A, B, D–F; 375–375A, 376–376C, 397A–400B, 401A–404B, 413A–416B, Reteaching: 421–422 Sets E, F, H; 437A–440M, 477A–480B
2.NBT.A.3 Read and write numbers up to 1000 using base-ten numerals, number names, and expanded form.	**SE:** 376, 381–384, 385–388, 389–392, 393–396, Reteaching: 419–420 Sets B, C, D **TE:** 376–376C, 381A–384B, 385A–388B, 389A–392B, 393A–396B, Reteaching: 419–420 Sets B, C, D
2.NBT.A.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:** 375, 405–408, 409–412, 413–416, Reteaching: 422 Sets G, H **TE:** 375–375A, 405A–408B, 409A–412B, 413A–416B, Reteaching: 421–422 Sets G, H

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2.NBT.B Use place value understanding and properties of operations to add and subtract.	
2.NBT.B.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:** 92, 93–96, 97–100, 101–104, 105–108, 109–112, 113–116, 117–120, Reteaching: 123–125 Sets A–F; 136, 137–140, 141–144, 145–148, 149–152, 153–156, 157–160, 161–164, 165–168, 169–172, Reteaching: 175–178 Sets A–H; 187, 188, 189–192, 193–196, 197–200, 201–204, 205–208, 209–212, 213–216, 217–220, Reteaching: 223–226 Sets A–H; 236, 237–240, 241–244, 245–248, 249–252, 253–256, 257–260, Reteaching: 267–269 Sets A–F; 279, 280, 281–284, 285–288, 289–292, 293–296, 297–300, 305–308, Reteaching: 315–318 Sets A–D, G **TE:** 92–92C, 93A–96B, 97A–100B, 101A–104B, 105A–108B, 109A–112B, 113A–116B, 117A–120B, Reteaching: 123–126 Sets A–F; 136–136A, 137A–140B, 141A–144B, 145A–148B, 149A–152B, 153A–156B, 157A–160B, 161A–164B, 165A–168B, 169A–172B, Reteaching: 175–178 Sets A–H; 187–187A, 188–188C, 189A–192B, 193A–196B, 197A–200B, 201A–204B, 205A–208B, 209A–212B, 213A–216B, 217A–220B, Reteaching: 223–226 Sets A–H; 236–236A, 237A–240B, 241A–244B, 245A–248B, 249A–252B, 253A–256B, 257A–260B, Reteaching: 267–270 Sets A–F; 279–279A, 280–280C, 281A–284B, 285A–288B, 289A–292B, 293A–296B, 297A–300B, 305A–308B, Reteaching: 315–318 Sets A–D, G
2.NBT.B.6 Add up to three two-digit numbers using strategies based on place value and properties of operations.	**SE:** Reteaching: 124–125 Sets D, E; 136, 157–160, 161–164, 165–168, 169–172, Reteaching: 177–178 Sets F–H; 279; Reteaching: 318 Set G **TE:** Reteaching: 124–125 Sets D, E; 136–136A, 157A–160B, 161A–164B, 165A–168B, 169A–172B, Reteaching: 177–178 Sets F–H; 279–279A, Reteaching: 317–318 Set G

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2.NBT.B.7 Demonstrate understanding of addition and subtraction within 1000, connecting objects or drawings to strategies based on place value (including multiples of 10), properties of operations, and/or the relationship between addition and subtraction. Relate the strategy to a written form. 2.NBT.B.8 Mentally add 10 or 100 to a given number in the range of 100 and 900, and mentally subtract 10 or 100 from a given number in the range of 100 and 900.	**SE:** 376, 397-400, 401-404, 413-416, Reteaching: 421-422 Sets E, F, H; 432, 433-436, 437–440, 441–444, 445–448, 449–452, 453–456, 457–460, Reteaching: 463–464 Sets A–D; 472, 473-476, 477–480, 481–484, 485–488, 489–492, 493–496, Reteaching: 499–500 Sets A–D **TE:** 376-376C, 397A-400B, 401A-404B, 413A-416B, Reteaching: 421-422 Sets E, F, H; 432-432A, 433A-436B, 437A–440B, 441A–444B, 445A–448B, 449A–452B, 453A–456B, 457A–460B, Reteaching: 463–464 Sets A–D; 472-472C, 473A-476B, 477A–480B, 481A–484B, 485A–488B, 489A–492B, 493A–496B, Reteaching: 499–500 Sets A–D
2.NBT.B.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:** 92, 93–96, 97–100, 101–104, 109–112, 117–120, Reteaching: 123–125 Sets A–F; 137–140, 141–144, 145–148, 149–152, 153–156, 157–160, 161–164, 169–172, Reteaching: 175–178 Sets A–H; 187, 188, 189–192, 193–196, 197–200, 201–204, 205–208, 209–212, 217–220, Reteaching: 223–226 Sets A–F, H; 237–240, 241–244, 245–248, 249–252, 253–256, 261–264, Reteaching: 267–269 Sets A–F; 309–312, Reteaching: 318 Set H; 433–436, 437–440, 441–444, 445–448, 449–452, 453–456, 457–460, Reteaching: 463–464 Sets A–D; 472, 473–476, 477–480, 481–484, 485–488, 489–492, 493–496, Reteaching: 499–500 Sets A, B, C **TE:** 92–92C, 93A–96B, 97A–100B, 101A–104B, 109A–112B, 117A–120B, Reteaching: 123–126 Sets A–F; 137A–140B, 141A–144B, 145A–148B, 149A–152B, 153A–156B, 157A–160B, 161A–164B, 169A–172B, Reteaching: 175–178 Sets A–H; 187–187A, 188–188C, 189A–192B, 193A–196B, 197A–200B, 201A–204B, 205A–208B, 209A–212B, 217A–220B, Reteaching: 223–226 Sets A–F, H; 237A–240B, 241A–244B, 245A–248B, 249A–252B, 253A–256B, 261A–264B, Reteaching: 267–270 Sets A–F; 309A–312B, Reteaching: 317–318 Set H; 433A–436B, 437A–440B, 441A–444B, 445A–448B, 449A–452B, 453A–456B, 457A–460B, Reteaching: 463–464 Sets A–D; 472–472C, 473A–476B, 477A–480B, 481A–484B, 485A–488B, 489A–492B, 493A–496B, Reteaching: 499–500 Sets A, B, C

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Measurement and Data (MD)	
2.MD.A Measure and estimate lengths in standard units.	
2.MD.A.1 Measure the length of an object by selecting and using appropriate tools (e.g., ruler, meter stick, yardstick, measuring tape).	**SE:** 513–516, 517–520, 521–524, 525–528, 529–532, 533–536, 541–544, Reteaching: 547–550 Sets B–F, H; 560, 565–568, 569–572, 573–576, Reteaching: 595–596 Sets B–D; 641–644, 645–648, Reteaching: 667 Set A **TE:** 513A–516B, 517A–520B, 521A–524B, 525A–528B, 529A–532B, 533A–536B, 541A–544B, Reteaching: 547–550 Sets B–F, H; 560–560C, 565A–568B, 569A–572B, 573A–576B, Reteaching: 595–596 Sets B–D; 641A–644B, 645A–648B, Reteaching: 667–668 Set A
2.MD.A.2 Measure the length of an object twice, using different standard length units for the two measurements; describe how the two measurements relate to the size of the unit chosen. Understand that depending on the size of the unit, the number of units for the same length varies.	**SE:** 521–524, 533–536, Reteaching: 548–549 Sets C, F; 581–584, Reteaching: 597 Set F **TE:** 521A–524B, 533A–536B, Reteaching: 548–549 Sets C, F; 581A–584B, Reteaching: 597–598 Set F
2.MD.A.3 Estimate lengths using units of inches, feet, centimeters, and meters.	**SE:** 509–512, 513–516, 517–520, 525–528, 529–532, 541–544, Reteaching: 547–550 Sets A, B, D, E, H **TE:** 509A–512B, 513A–516B, 517A–520B, 525A–528B, 529A–532B, 541A–544B, Reteaching: 547–550 Sets A, B, D, E, H
2.MD.A.4 Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.	**SE:** 537–540, 541–544, Reteaching: 550 Sets G, H; 560 **TE:** 537A–540B, 541A–544B, Reteaching: 549–550 Sets G, H; 560–560C

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2.MD.B Relate addition and subtraction to length.	
2.MD.B.5 Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same unit.	**SE:** 537–560, Reteaching: 549–550 Sets F, G; 560, 609–612, 613–616, 617–620, 625–628, Reteaching: 631–632 Sets A–D **TE:** 537A–540B, Reteaching: 549–550 Sets F, G; 560–560C, 609A–612B, 613A–616B, 617A–620B, 625A–628B, Reteaching: 631–632 Sets A–D
2.MD.B.6 Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2, ..., and represent whole-number sums and differences within 100 on a number line diagram.	**SE:** 621–624, 625–628, Reteaching: 632 Sets C–D **TE:** 621A–624B, 625A–628B, Reteaching: 632 Sets C–D
2.MD.C Work with time and money.	
2.MD.C.7 Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.	**SE:** 328, 349–352, 353–356, 357–360, Reteaching: 365–366 Sets D–F **TE:** 328–328A, 349A–352B, 353A–356B, 357A–360B, Reteaching: 365–366 Sets D–F
2.MD.C.8 Solve word problems involving collections of money, including dollar bills, quarters, dimes, nickels, and pennies. Record the total using $ and ¢ appropriately.	**SE:** 329–332, 333–336, 337–340, 341–344, 345–348, 376, 433–436, 473–476, 485–488 **TE:** 329A–332B, 333A–336B, 337A–340B, 341A–344B, 345A–348B, 376–376C, 433A–436B, 473A–476B, 485A–488B
2.MD.D Represent and interpret data.	
2.MD.D.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:** 640, 641–644, 645–648, Reteaching: 667 Set A **TE:** 640–640C, 641A–644B, 645A–648B, Reteaching: 667–668 Set A
2.MD.D.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 compare problems using information presented in the graph.	**SE:** 640, 649–652, 653–656, 657–660, 661–664, Reteaching: 667–670 Sets B–D **TE:** 640–640C, 649A–652B, 653A–656B, 657A–660B, 661A–664B, Reteaching: 667–670 Sets B–D

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Geometry (G)	
2.G.A Reason with shapes and their attributes.	
2.G.A.1 Identify and describe specified attributes of two-dimensional and three-dimensional shapes, according to the number and shape of faces, number of angles, and the number of sides and/or vertices. Draw two-dimensional shapes based on the specified attributes (e.g., triangles, quadrilaterals, pentagons, and hexagons).	**SE:** 560, 561–564, 565–568, 569–572, 573–576, Reteaching: 595–596 Sets A–D **TE:** 560–560C, 561A–564B, 565A–568B, 569A–572B, 573A–576B, Reteaching: 595–596 Sets A–D
2.G.A.2 Partition a rectangle into rows and columns of same-size rectangles and count to find the total number of rectangles.	**SE:** 577-580, 589-592, Reteaching: 597-598 Sets E, H **TE:** 577A-580B, 589A-592B, Reteaching: 597-598 Sets E, H
2.G.A.3 Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words halves, thirds, fourths, half of, third of, fourth of, 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.	**SE:** 581–584, 585–588, 589–592, Reteaching: 597–598 Sets F, G, H **TE:** 581A–584B, 585A–588B, 589A–592B, Reteaching: 597–598 Sets F, G, H

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Standards for Mathematical Practice	
2.MP.1 Make sense of problems and persevere in solving them. Mathematically proficient students explain to themselves the meaning of a problem, look for entry points to begin work on the problem, and plan and choose a solution pathway. While engaging in productive struggle to solve a problem, they continually ask themselves, “Does this make sense?" to monitor and evaluate their progress and change course if necessary. Once they have a solution, they look back at the problem to determine if the solution is reasonable and accurate. Mathematically proficient students check their solutions to problems using different methods, approaches, or representations. They also compare and understand different representations of problems and different solution pathways, both their own and those of others.	**enVision Mathematics** 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 SavvasRealize.com, 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. **Student’s Edition and Teacher’s Edition pages** 13–16, 21–24, 37–40, 41–44, 69–72, 77–80, 113–116, 117–120, 141–144, 149–152, 165–168, 169–172, 193–196, 197–200, 205–208

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2.MP.2 Reason abstractly and quantitatively. Mathematically proficient students make sense of quantities and their relationships in problem situations. Students can contextualize and decontextualize problems involving quantitative relationships. They contextualize quantities, operations, and expressions by describing a corresponding situation. They decontextualize a situation by representing it symbolically. As they manipulate the symbols, they can pause as needed to access the meaning of the numbers, the units, and the operations that the symbols represent. Mathematically proficient students know and flexibly use different properties of operations, numbers, and geometric objects and when appropriate they interpret their solution in terms of the context.	**enVision Mathematics** 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. **Student's Edition and Teacher's Edition pages** 5–8, 13–16, 17–20, 21–24, 25–28, 33–36, 37–40, 41–44, 73–76, 97–100, 105–108, 109–112, 149–152, 153–156, 157–160

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2.MP.3 Construct viable arguments and critique the reasoning of others. Mathematically proficient students construct mathematical arguments (explain the reasoning underlying a strategy, solution, or conjecture) using concrete, pictorial, or symbolic referents. Arguments may also rely on definitions, assumptions, previously established results, properties, or structures. Mathematically proficient students make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. Mathematically proficient students present their arguments in the form of representations, actions on those representations, and explanations in words (oral or written). Students critique others by affirming or questioning the reasoning of others. They can listen to or read the reasoning of others, decide whether it makes sense, ask questions to clarify or improve the reasoning, and validate or build on it. Mathematically proficient students can communicate their arguments, compare them to others, and reconsider their own arguments in response to the critiques of others.	Consistent with a focus on reasoning and sense-making is a focus on critical reasoning—argumentation and critique of arguments. In **enVision Mathematics**, 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. **Student's Edition and Teacher's Edition pages** 29–32, 41–44, 69–72, 77–80, 93–96, 105–108, 117–120, 137–140, 141–144, 149–152, 157–160, 169–172, 189–192, 201–204, 217–220
2.MP.4 Model with mathematics. Mathematically proficient students apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. When given a problem in a contextual situation, they identify the mathematical elements of a situation and create a mathematical model that represents those mathematical elements and the relationships among them. Mathematically proficient students use their model to analyze the relationships and draw conclusions. They interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.	Students using **enVision Mathematics** 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. **Student's Edition and Teacher's Edition pages** 5–8, 9–12, 21–24, 29–32, 33–36, 41–44, 61–64, 65–68, 73–76, 77–80, 101–104, 109–112, 137–140, 141–144, 145–148

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2.MP.5 Use appropriate tools strategically. Mathematically proficient students consider available tools when solving a mathematical problem. They choose tools that are relevant and useful to the problem at hand. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful; recognizing both the insight to be gained and their limitations. Students deepen their understanding of mathematical concepts when using tools to visualize, explore, compare, communicate, make and test predictions, and understand the thinking of others.	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. **Student's Edition and Teacher's Edition pages** 29–32, 73–76, 93–96, 97–100, 117–120, 137–140, 189–192, 193–196, 209–212, 237–240, 245–248, 261–264, 305–308, 349–352, 377–380
2.MP.6 Attend to precision. Mathematically proficient students clearly communicate to others using appropriate mathematical terminology, and craft explanations that convey their reasoning. When making mathematical arguments about a solution, strategy, or conjecture, they describe mathematical relationships and connect their words clearly to their representations. Mathematically proficient students understand meanings of symbols used in mathematics, calculate accurately and efficiently, label quantities appropriately, and record their work clearly and concisely.	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. **Student's Edition and Teacher's Edition pages** 9–12, 37–40, 61–64, 77–80, 113–116, 197–200, 201–204, 253–256, 261–264, 301–304, 333–336, 341–344, 349–352, 353–356, 357–360

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2.MP.7 Look for and make use of structure. Mathematically proficient students use structure and patterns to assist in making connections among mathematical ideas or concepts when making sense of mathematics. Students recognize and apply general mathematical rules to complex situations. They are able to compose and decompose mathematical ideas and notations into familiar relationships. Mathematically proficient students manage their own progress, stepping back for an overview and shifting perspective when needed.	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. **Student's Edition and Teacher's Edition pages** 9–12, 13–16, 17–20, 25–28, 61–64, 65–68, 69–72, 77–80, 101–104, 145–148, 153–156, 161–164, 189–192, 201–204, 217–220
2.MP.8 Look for and express regularity in repeated reasoning. Mathematically proficient students look for and describe regularities as they solve multiple related problems. They formulate conjectures about what they notice and communicate observations with precision. While solving problems, students maintain oversight of the process and continually evaluate the reasonableness of their results. This informs and strengthens their understanding of the structure of mathematics which leads to fluency.	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. **Student's Edition and Teacher's Edition pages** 5–8, 17–20, 25–28, 33–36, 65–68, 77–80, 105–108, 153–156, 157–160, 165–168, 205–208, 281–284, 345–348, 353–356, 357–360

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Operations and Algebraic Thinking (OA)	
3.OA.A Represent and solve problems involving whole number multiplication and division.	
3.OA.A.1 Interpret products of whole numbers as the total number of objects in equal groups (e.g., interpret 5 x 7 as the total number of objects in 5 groups of 7 objects each).	**SE:** 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 **TE:** 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
3.OA.A.2 Interpret whole number quotients of whole numbers (e.g., interpret 56 ÷ 8 as the number of objects in each group when 56 objects are partitioned equally into 8 groups, or as a number of groups when 56 objects are partitioned into equal groups of 8 objects each).	**SE:** 4, 17–20, 21–24, 25–28, Reteaching: 32 Sets D, E; 185–188, Reteaching: 197–198 Set E **TE:** 4–4C, 17A–20B, 21A–24B, 32, Reteaching: 25A–28B Sets D, E; 185A–188B, Reteaching: 197–198 Set E
3.OA.A.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities.	**SE:** 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

Arizona Mathematics Standards Grade 3	enVision Mathematics, ©2020 Grade 3
(Continued) 3.OA.A.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities.	**TE:** 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
3.OA.A.4 Determine the unknown whole number in a multiplication or division equation relating three whole numbers For example, determine the unknown number that makes the equation true in each of the equations 8 x □ = 48, 5 = □ ÷ 3, 6 x 6 = □ .	**SE:** 141–144, 145–148, Reteaching: Sets 157–158, G, H; 168, 221–224, Reteaching: 240 Set D **TE:** 141A–144B, 145A–148B, Reteaching: 157–158 Sets G, H; 168–168C, 221A–224B, Reteaching: 239–240 Set D
3.OA.B Understand properties of multiplication and the relationship between multiplication and division.	
3.OA.B.5 Apply properties of operations as strategies to multiply and divide. Properties include commutative and associative properties of multiplication and the distributive property. (Students do not need to use the formal terms for these properties.)	**SE:** 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 **TE:** 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

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3.OA.B.6 Understand division as an unknown-factor problem (e.g., find 32 ÷ 8 by finding the number that makes 32 when multiplied by 8).	**SE:** 117–120, 121–124, 125–128, 129–132, 137–140, Reteaching: 155–157 Sets A–D, F, G **TE:** 117–120, 121–124, 125–128, 129–132, 137–140, 141–144, Reteaching: 155–157 Sets A–D, F, G
3.OA.C Multiply and divide within 100.	
3.OA.C.7 Fluently multiply and divide within 100. By the end of Grade 3, know from memory all multiplication products through 10 x 10 and division quotients when both the quotient and divisor are less than or equal to 10.	**SE:** 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, Reteaching: 574 Set H;617–620, 625–628, 629–632, Reteaching: 639–640 Sets A, C **TE:** 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, Reteaching: 573–574 Set H; 617A–620B, 625A–628B, 629A–632B, Reteaching: 639–640 Sets A, C

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3.OA.D Solve problems involving the four operations, and identify and explain patterns in arithmetic.	
3.OA.D.8 Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Utilize understanding of the Order of Operations when there are no parentheses.	**SE:** 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 **TE:** 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
3.OA.D.9 Identify patterns in the addition table and the multiplication table and explain them using properties of operations (e.g. observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends).	**SE:** 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 **TE:** 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

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3.OA.D.10 When solving problems, assess the reasonableness of answers using mental computation and estimation strategies including rounding.	**SE:** 309-312, 313-316, Reteaching: 325 Sets F, G; 341-344, 345–348, 357–360, Reteaching: 367-370 Sets B-F; 409-412, 421-424, Reteaching: 427 Set A **TE:** 309A-312B, 313A-316B, Reteaching: 325 Sets F, G; 341A-344B, 345A–348B, 357A–360B, Reteaching: 367-370 Sets B-F; 409A-412B, 421A-424B, Reteaching: 427 Set A
Number and Operations in Base Ten (NBT)	
3.NBT.A Use place value understanding and properties of operations to perform multi-digit arithmetic.	
3.NBT.A.1 Use place value understanding to round whole numbers to the nearest 10 or 100.	**SE:** 287–288, 305–308, 309–312, Reteaching: 324–325 Sets E, F; 336 **TE:** 287–288A, 305A–308B, 309A–312B, Reteaching: 323–326 Sets E, F; 336–336C
3.NBT.A.2 Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.	**SE:** 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, Reteaching: 367–370 Sets A–G; 408, 409–412, 417–420, 421–424, Reteaching: 427–428 Sets A, C, D; 541–544, Reteaching: 572 Set C; 621–624, Reteaching: 639 Set B **TE:** 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, Reteaching: 367–370 Sets A–G; 408-408C, 409A–412B, 417A–420B, 421A–424B, Reteaching: 427–428 Sets A, C, D; 541A–544B, Reteaching: 572 Set C; 621A–624B, Reteaching: 639 Set B
3.NBT.A.3 Multiply one-digit whole numbers by multiples of 10 in the range 10 to 90 using strategies based on place value and the properties of operations (e.g., 9 x 80, 5 x 60).	**SE:** 379–380, 381–384, 385–388, 389–392, 393–396, Reteaching: 399–400 Sets A–D **TE:** 379–380A, 381A–384B, 385A–388B, 389A–392B, 393A–396B, Reteaching: 399–400 Sets A–D

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Number and Operations – Fractions (NF)	
3.NF.A Understand fractions as numbers.	
3.NF.A.1 Understand a fraction (1/b) as the quantity formed by one 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:** 435-436, 437–440, 441–444, 445–448, 465–468, Reteaching: 471–474 Sets A–C, H; 484, 485–488, 489–492, Reteaching: 519-522 Sets A-H; 585-588 **TE:** 435–436A, 437A–440B, 441A–444B, 445A–448B, 465A–468B, Reteaching: 471–474 Sets A–C, H; 484–484C, 485A–488B, 489A–492B, Reteaching: 519-522 Sets A-H; 585A-588B
3.NF.A.2 Understand a fraction as a number on the number line; represent fractions on a number line diagram.	**SE:** 435-436, 437–440, 441–444, 445–448, 465–468, Reteaching: 471–474 Sets A–C, H; 484, 485–488, 489–492, Reteaching: 519-522 Sets A-H **TE:** 435–436A, 437A–440B, 441A–444B, 445A–448B, 465A–468B, Reteaching: 471–474 Sets A–C, H; 484–484C, 485A–488B, 489A–492B, Reteaching: 519-522 Sets A-H
a. Represent a fraction 1/b on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into b equal parts. Understand that each part has size 1/b and that the end point of the part based at 0 locates the number 1/b on the number line.	**SE:** 435–436, 449–452, 453–456, 457–460, 461–464, Reteaching: 472–474 Sets D–G **TE:** 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 diagram by marking off a lengths 1/b from 0. Understand that the resulting interval has size a/b and that its endpoint locates the number a/b on the number line including values greater than 1.	**SE:** 449–452, 453–456, 457–460, 461–464, Reteaching: 472–474 Sets D–G **TE:** 449A–452B, 453A–456B, 457A–460B, 461A–464B, Reteaching: 471–474 Sets D–G
c. Understand a fraction 1/b as a special type of fraction that can be referred to as a unit fraction (e.g. 1/2, 1/4).	**SE:** 437–440, 441-444, Reteaching: 471-472, Sets A-C **TE:** 437A–440B, 441-444B, Reteaching: 471-472, Sets A-C

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3.NF.A.3 Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.	**SE:** 483, 484, 485–488, 489–492, 493–496, 497–500, 501–504, 505–508, 509–512, 513–516, Reteaching: 519–522 Sets A-H **TE:** 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
a. Understand two fractions as equivalent if they have the same relative size compared to 1 whole.	**SE:** 483, 484, 485–488, 489–492, 505–508, 509–512, Reteaching: 519–522 Sets A, B, F, G **TE:** 483-483A, 484-484C, 485A–488B, 489A–492B, 505A–508B, 509A–512B, Reteaching: 519–522 Sets A, B, F, G
b. Recognize and generate simple equivalent fractions. Explain why the fractions are equivalent.	**SE:** 483, 485–488, 489–492, 513–516, Reteaching: 519–522 Sets A, B, H **TE:** 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.	**SE:** 445–448, Reteaching: 472 Set C; 484, 509–512, Reteaching: 522 Set G **TE:** 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. Understand that comparisons are valid only when the two fractions refer to the same whole. Record results of comparisons with the symbols >, =, or <, and justify conclusions.	**SE:** 483, 493–496, 497–500, 501–504, 513–516, Reteaching: 520–522 Sets C–E, H **TE:** 483–483A, 493A–496B, 497A–500B, 501A–504B, 513A–516B, Reteaching: 519–522 Sets C–E, H

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Measurement and Data (MD)	
3.MD.A Solve problems involving measurement.	
3.MD.A.1a Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes (e.g., representing the problem on a number line diagram).	**SE:** 531–532, 533–536, 537–540, 541–544, 565–568, Reteaching: 571–574 Sets A–C, I **TE:** 531–532A, 533A–536B, 537A–540B, 541A–544B, 565A–568B, Reteaching: 571–574 Sets A–C, I
3.MD.A.1b Solve word problems involving money through $20.00, using symbols $, ".", ¢.	**SE:** 115-116, 141-144, 408, 421-424, 509-512, **TE:** 115-116C, 141A-144B, 408-408C, 421A-424B, 509A-512,
3.MD.A.2 Measure and estimate liquid volumes and masses of objects using metric units. (Excludes compound units such as cm3 and finding the geometric volume of a container.) Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units. Excludes multiplicative comparison problems (problems involving notions of “times as much”).	**SE:** 309–312, Reteaching: 325 Set F; 531–532, 545–548, 549–552, 553–556, 557–560, 561–564, Reteaching: 572–574 Sets D–H **TE:** 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
3.MD.B Represent and interpret data.	
3.MD.B.3 Create 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 scaled bar graphs.	**SE:** 251, 252, 253–256, 257–260, 261–264, 265–268, 269–272, Reteaching: 275–278 Sets A–D; 417–420, Reteaching: 428 Set C **TE:** 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
3.MD.B.4 Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch to the nearest quarter-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:** 435–436, 457–460, 461–464, Reteaching: 473–474 Sets F, G **TE:** 435–436A, 457A–460B, 461A–464B, Reteaching: 473–474 Sets F, G

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3.MD.C Geometric measurement: Understand concepts of area and perimeter.	
3.MD.C.5 Understand area as an attribute of plane figures and understand concepts of area measurement.	**SE:** 252 **TE:** 252-252C
a. 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:** 207–208, 209–212, 213–216, 217–220, Reteaching: 239–240 Sets A–C **TE:** 207–208A, 209A–212B, 213A–216B, 217A–220B, Reteaching: 239–240 Sets A–C
b. 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:** 209–212, 213–216, 217–220, Reteaching: 239–240 Sets A–C; 593–596, Reteaching: 604 Set C **TE:** 209A–212B, 213A–216B, 217A–220B, Reteaching: 239–240 Sets A–C; 593A–596B, Reteaching: 604 Set C
3.MD.C.6 Measure areas by counting unit squares (e.g., square cm, square m, square in, square ft, and improvised units).	**SE:** 207–208, 209–212, 213–216, 217–220, Reteaching: 239–240 Sets A–C **TE:** 207–208A, 209A–212B, 213A–216B, 217A–220B, Reteaching: 239–240 Sets A–C
3.MD.C.7 Relate area to the operations of multiplication and addition.	**SE:** 101–104, Reteaching: 108 Set F; 252 **TE:** 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.	**SE:** 221–224, 233–236, Reteaching: 242 Set G **TE:** 221A–224B, 233A–236B, Reteaching: 241–242 Set G
b. Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving real-world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning.	**SE:** 221–224, 233–236, Reteaching: 242 Set G; 597–600, Reteaching: 604 Set D; 625–628, 629–632, Reteaching: 640 Set C **TE:** 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 that the area of a rectangle with whole-number side lengths a and b + c is the sum of a × b and a × c. Use area models to represent the distributive property in mathematical reasoning.	**SE:** 225-228, Reteaching: 241 Set E **TE:** 225A-228B, Reteaching: 241 Set E
d. Understand that rectilinear figures can be decomposed into non-overlapping rectangles and that the sum of the areas of these rectangles is identical to the area of the original rectilinear figure. Apply this technique to solve problems in real-world contexts.	**SE:** 229–232, 233–236, Reteaching: 242 Sets F–G **TE:** 229A–232B, 233A–236B, Reteaching: 241–242 Sets F–G
3.MD.C.8 Solve real-world and mathematical problems involving perimeters of plane figures and areas of rectangles, including finding the perimeter given the side lengths, finding an unknown side length. Represent rectangles with the same perimeter and different areas or with the same area and different perimeters.	**SE:** 612, 613-616, 617-620, 621-624, 625-628, 629-632, 633-636, Reteaching: 640 Set D **TE:** 612-612A613A-616B, 617A-620B, 621A-624B, 625A-628B, 629A-632B, 633A-636B, Reteaching: 640 Set D
Geometry (G)	
3.G.A Reason with shapes and their attributes.	
3.G.A.1 Understand that shapes in different categories (e.g., rhombuses, rectangles, and others)may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples quadrilaterals that do not belong to any of these subcategories.	**SE:** 583, 584, 585–588, 589–592, 593–596, 597–600, Reteaching: 603–604 Sets A–D **TE:** 583–583A, 584–584C, 585A–588B, 589A–592B, 593A–596B, 597A–600B, Reteaching: 603–604 Sets A–D
3.G.A.2 Partition shapes into b parts with equal areas. Express the area of each part as a unit fraction 1/b of the whole. (Grade 3 expectations are limited to fractions with denominators b = 2,3,4,6,8.)	**SE:** 435–436, 437–440, 441–444, Reteaching: 471 Sets A, B; 584, 585–588, 589–592, Reteaching: 603 Sets A, B **TE:** 435–436A, 437A–440B, 441A–444B, Reteaching: 471–472 Sets A, B; 584–584C, 585A–588B, 589A–592B, Reteaching: 603 Sets A, B

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Standards for Mathematical Practice	
3.MP.1 Make sense of problems and persevere in solving them. Mathematically proficient students explain to themselves the meaning of a problem, look for entry points to begin work on the problem, and plan and choose a solution pathway. While engaging in productive struggle to solve a problem, they continually ask themselves, "Does this make sense?" to monitor and evaluate their progress and change course if necessary. Once they have a solution, they look back at the problem to determine if the solution is reasonable and accurate. Mathematically proficient students check their solutions to problems using different methods, approaches, or representations. They also compare and understand different representations of problems and different solution pathways, both their own and those of others.	**enVision Mathematics** 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 SavvasRealize.com, 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. **Student's Edition and Teacher's Edition pages** 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
3.MP.2 Reason abstractly and quantitatively. Mathematically proficient students make sense of quantities and their relationships in problem situations. Students can contextualize and decontextualize problems involving quantitative relationships. They contextualize quantities, operations, and expressions by describing a corresponding situation. They decontextualize a situation by representing it symbolically. As they manipulate the symbols, they can pause as needed to access the meaning of the numbers, the units, and the operations that the symbols represent. Mathematically proficient students know and flexibly use different properties of operations, numbers, and geometric objects and when appropriate they interpret their solution in terms of the context.	**enVision Mathematics** 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. **Student's Edition and Teacher's Edition pages** 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

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3.MP.3 Construct viable arguments and critique the reasoning of others. Mathematically proficient students construct mathematical arguments (explain the reasoning underlying a strategy, solution, or conjecture) using concrete, pictorial, or symbolic referents. Arguments may also rely on definitions, assumptions, previously established results, properties, or structures. Mathematically proficient students make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. Mathematically proficient students present their arguments in the form of representations, actions on those representations, and explanations in words (oral or written). Students critique others by affirming or questioning the reasoning of others. They can listen to or read the reasoning of others, decide whether it makes sense, ask questions to clarify or improve the reasoning, and validate or build on it. Mathematically proficient students can communicate their arguments, compare them to others, and reconsider their own arguments in response to the critiques of others.	Consistent with a focus on reasoning and sense-making is a focus on critical reasoning—argumentation and critique of arguments. In **enVision Mathematics**, 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. **Student's Edition and Teacher's Edition pages** 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
3.MP.4 Model with mathematics. Mathematically proficient students apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. When given a problem in a contextual situation, they identify the mathematical elements of a situation and create a mathematical model that represents those mathematical elements and the relationships among them. Mathematically proficient students use their model to analyze the relationships and draw conclusions. They interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.	Students using **enVision Mathematics** 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. **Student's Edition and Teacher's Edition pages** 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

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3.MP.5 Use appropriate tools strategically. Mathematically proficient students consider available tools when solving a mathematical problem. They choose tools that are relevant and useful to the problem at hand. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful; recognizing both the insight to be gained and their limitations. Students deepen their understanding of mathematical concepts when using tools to visualize, explore, compare, communicate, make and test predictions, and understand the thinking of others.	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. **Student's Edition and Teacher's Edition pages** 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
3.MP.6 Attend to precision. Mathematically proficient students clearly communicate to others using appropriate mathematical terminology, and craft explanations that convey their reasoning. When making mathematical arguments about a solution, strategy, or conjecture, they describe mathematical relationships and connect their words clearly to their representations. Mathematically proficient students understand meanings of symbols used in mathematics, calculate accurately and efficiently, label quantities appropriately, and record their work clearly and concisely.	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. **Student's Edition and Teacher's Edition pages** 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

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3.MP.7 Look for and make use of structure. Mathematically proficient students use structure and patterns to assist in making connections among mathematical ideas or concepts when making sense of mathematics. Students recognize and apply general mathematical rules to complex situations. They are able to compose and decompose mathematical ideas and notations into familiar relationships. Mathematically proficient students manage their own progress, stepping back for an overview and shifting perspective when needed.	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. **Student's Edition and Teacher's Edition pages** 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
3.MP.8 Look for and express regularity in repeated reasoning. Mathematically proficient students look for and describe regularities as they solve multiple related problems. They formulate conjectures about what they notice and communicate observations with precision. While solving problems, students maintain oversight of the process and continually evaluate the reasonableness of their results. This informs and strengthens their understanding of the structure of mathematics which leads to fluency.	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. **Student's Edition and Teacher's Edition pages** 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

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Operations and Algebraic Thinking (OA)	
4.OA.A Use the four operations with whole numbers to solve problems.	
4.OA.A.1 Represent verbal statements of multiplicative comparisons as multiplication equations. Interpret a multiplication equation as a comparison (e.g., 35 is the number of objects in 5 groups, each containing 7 objects, and is also the number of objects in 7 groups, each containing 5 objects).	**SE:** 223–224, 225–228, 229–232, Reteaching: 251 Set A **TE:** 223–224A, 225A–228B, 229A–232B, Reteaching: 251 Set A
4.OA.A.2 Multiply or divide within 1000 to solve word problems involving multiplicative comparison (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison).	**SE:** 85–88, 223–224, 225–228, 229–232, 233–236, 237–240, 241–244, 245–248, Reteaching: 251–252 Sets A, B, D; 260 **TE:** 85A–88B, 223–224A, 225A–228B, 229A–232B, 233A–236B, 237A–240B, 241A–244B, 245A–248B, Reteaching: 251–252 Sets A, B, D; 260–260C
4.OA.A.3 Solve multistep word problems using the four operations, including problems in which remainders must be interpreted. Understand how the remainder is a fraction of the divisor. Represent these problems using equations with a letter standing for the unknown quantity.	**SE:** 41–44, 45–48, 49–52, 53–56, 57–60, 61–64, 65–68, Reteaching: 71–72 Sets B, F; 80, 85–88, 97–100, 105–108, 109–112, Reteaching: 115–118 Sets B, G, H; 137–140, 141–144, 149–152, 153-156, Reteaching: 159–160 Set C; 168, 173–176, 177-180, 181-184, 197–120, 205–208, Reteaching: 211–214 Sets B, H; 233–236, 237–240, 241–244, 245–248, Reteaching: 251 Set B; 260, 481–484, 485–488, 489–492, 493–496, 497–500, 501–504, 505–508, 529–532, 569–572 **TE:** 41A–44B, 45A–48B, 49A–52B, 53A–56B, 57A–60B, 61A–64B, 65A–68B, Reteaching: 71–72 Sets B, F; 80–80C, 85A–88B, 97A–100B, 105A-108B, 109A–112B, Reteaching: 115–118 Sets B, G, H; 137A–140B, 141A–144B, 149A–152B, 153A-156B, Reteaching: 159–160 Set C; 168– 168C, 173A–176B, 177A–180B, 181A–184B, 197A–120B, 205A–208B, Reteaching: 211–214 Sets B, H; 233A–236B, 237A–240B, 241A–244B, 245A–248B, Reteaching: 251 Set B; 260–260C, 481A–484B, 485A–488B, 489A–492B, 493A–496B, 497A–500B, 501A–504B, 505A–508B, 529A–532B, 569A–572B

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4.OA.B Gain familiarity with factors and multiples.	
4.OA.B.4 Find all factor pairs for a whole number in the range 1 to 100 and understand that a whole number is a multiple of each of its factors.	**SE:** 260, 261–264, 265–268, 269–272, 273–276, 277–280, Reteaching: 283–284 Sets A–E; 305–308, 521–524, 525–528 **TE:** 260–260C, 261A–264B, 265A–268B, 269A–272B, 273A–276B, 277A–280B, Reteaching: 283–284 Sets A–E; 305A–308B, 521A–524B, 525A–528B
4.OA.C Generate and analyze patterns.	
4.OA.C.5 Generate a number pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself and explain the pattern informally (e.g., given the rule "add 3" and the starting number 1, generate terms in the resulting sequence and observe that the terms appear to alternate between odd and even numbers).	**SE:** 519–520, 521–524, 525–528, 529–532, 533–536, Reteaching: 539–540 Sets A–D; 589–592 **TE:** 519–520A, 521A–524B, 525A–528B, 529A–532B, 533A–536B, Reteaching: 539–540 Sets A–D; 589A–592B
4.OA.C.6 When solving problems, assess the reasonableness of answers using mental computation and estimation strategies including rounding.	**SE:** 41–44, 45–48, 49–52, 53–56, 57–60, 61–64, 65–68, Reteaching: 71–72 Sets B, F; 80, 85–88, 97–100, 105–108, 109–112, Reteaching: 115–118 Sets B, G, H; 137–140, 141–144, 149–152, 153-156, Reteaching: 159–160 Set C; 168, 173–176, 177-180, 181-184, 197–120, 205–208, Reteaching: 211–214 Sets B, H; 233–236, 237–240, 241–244, 245–248, Reteaching: 251 Set B; 260, 481–484, 485–488, 489–492, 493–496, 497–500, 501–504, 505–508, 529–532, 569–572 **TE:** 41A–44B, 45A–48B, 49A–52B, 53A–56B, 57A–60B, 61A–64B, 65A–68B, Reteaching: 71–72 Sets B, F; 80–80C, 85A–88B, 97A–100B, 105A-108B, 109A–112B, Reteaching: 115–118 Sets B, G, H; 137A–140B, 141A–144B, 149A–152B, 153A-156B, Reteaching: 159–160 Set C; 168– 168C, 173A–176B, 177A–180B, 181A–184B, 197A–120B, 205A–208B, Reteaching: 211–214 Sets B, H; 233A–236B, 237A–240B, 241A–244B, 245A–248B, Reteaching: 251 Set B; 260–260C, 481A–484B, 485A–488B, 489A–492B, 493A–496B, 497A–500B, 501A–504B, 505A–508B, 529A–532B, 569A–572B

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Number and Operations in Base Ten (NBT)	
4.NBT.A Generalize place value understanding for multi-digit whole numbers.	
4.NBT.B.4 Fluently add and subtract multi-digit whole numbers using a standard algorithm.	**SE:** 35–36, 37–40, 41–44, 45–48, 49–52, 53–56, 57–60, 61–64, 65–68, Reteaching: 71–72 Sets A–E; 80, 233–236, 237–240, 241–244, 521–524, 565–568 **TE:** 35–36A, 37A–40B, 41A–44B, 45A–48B, 49A–52B, 53A–56B, 57A–60B, 61A–64B, 65A–68B, Reteaching: 71–72 Sets A–E; 80–80C, 233A–236B, 237A–240B, 241A–244B, 521A–524B, 565A–568B
4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole 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.	**SE:** 79, 80, 81–84, 89–92, 93–96, 97–100, 101–104, 105–108, 109–112, Reteaching: 115–118 Sets A–G; 127–128, 129–132, 133–136, 137–140, 141–144, 145–148, 149–152, 153–156, Reteaching: 159–160 Sets A–F; 168, 173–176, 177–180, 223–224, 225–228, 229–232, 233–236, 237–240, 241–244, 245–248, Reteaching: 251–252 Sets A, B, D; 261–264, 265–268, 269–272, 273–276, 277–280, Reteaching: 283–284 Sets A–E; 301–304, 313–316, 525–528 **TE:** 79–79A, 80–80C, 81A–84B, 89A–92B, 93A–96B, 97A–100B, 101A–104B, 105A–108B, 109A–112B, Reteaching: 115–118 Sets A–G; 127–128A, 129A–132B, 133A–136B, 137A–140B, 141A–144B, 145A–148B, 149A–152B, 153A–156B, Reteaching: 159–160 Sets A–F; 168–168C, 173A–176B, 177A–180B, 223–224A, 225A–228B, 229A–232B, 233A–236B, 237A–240B, 241A–244B, 245A–248B, Reteaching: 251–252 Sets A, B, D; 261A–264B, 265A–268B, 269A–272B, 273A–276B, 277A–280B, Reteaching: 283–284 Sets A–E; 301A–304B, 313A–316B, 525A–528B

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4.NBT.B.6 Demonstrate understanding of division by finding whole-number quotients and remainders with up to four-digit dividends and one-digit divisors.	**SE:** 167, 169–172, 173–176, 177–180, 181–184, 185–188, 189–192, 193–196, 197–200, 201–204, 205–208, Reteaching: 211–214 Sets A, C, H; 229–232, 233–236, 237–240, 241–244, 245–248, Reteaching: 251–252 Sets A, B, D; 260, 305–308, 525–528, 529–532 **TE:** 167–167A, 168–168C, 169A–172B, 173A–176B, 177A–180B, 181A–184B, 185A–188B, 189A–192B, 193A–196B, 197A–200B, 201A–204B, 205A–208B, Reteaching: 211–214 Sets A, C, H; 229A–232B, 233A–236B, 237A–240B, 241A–244B, 245A–248B, Reteaching: 251–252 Sets A, B, D; 260–260C, 305A–308B, 525A–528B, 529A–532B
Number and Operations – Fractions (NF)	
4.NF.A Extend understanding of fraction equivalence and ordering.	
4.NF.A.1 Explain why a fraction a/b is equivalent to a fraction (n x a)/(n x b) 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 understand and generate equivalent fractions.	**SE:** 291–292, 293–296, 297–300, 301–304, 305–308, 313–316, 317–320, Reteaching: 323–324 Sets A, B; 421–424, 553–556 **TE:** 291–292, 293A–296B, 297A–300B, 301A–304B, 305A–308B, 313A–316B, 317A–320B, Reteaching: 323–324 Sets A, B; 421A–424B, 553A–556B
4.NF.A.2 Compare two fractions with different numerators and different denominators (e.g., by creating common denominators or numerators and by comparing to a benchmark fraction).	**SE:** 259, 309–312, 313–316, 317–320, Reteaching: 324 Sets C; D, 332, 415, 416, 421–424 **TE:** 259–259A, 309A–312B, 313A–316B, 317A–320B, Reteaching: 324 Sets C, D; 332–332A, 415–415A, 416–416C, 421A–424B
a. Understand that comparisons are valid only when the two fractions refer to the same size whole.	**SE:** 309–312, 313-316, Reteaching: 324 Set C **TE:** 309A–312B, 313A-316B, Reteaching: 324 Set C

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b. Record the results of comparisons with symbols >, =, or <, and justify the conclusions.	**SE:** 259, 309–312, 313–316, 317–320, Reteaching: 324 Sets C; D, 332, 415, 416, 421–424 **TE:** 259–259A, 309A–312B, 313A–316B, 317A–320B, Reteaching: 324 Sets C, D; 332–332A, 415–415A, 416–416C, 421A–424B
4.NF.B Build fractions from unit fractions by applying and extending previous understanding of operations on whole numbers.	
4.NF.B.3 Understand a fraction a/b with a > 1 as a sum of unit fractions (1/b).	**SE:** 331, 332, 333–336, 341–344, 345–348, 349–352, 353–356, 369–372, Reteaching: 375–376 Sets A, C, D **TE:** 331–331A, 332–332C, 333A–336B, 341A–344B, 345A–348B, 349A–352B, 353A–356B, 369A–372B, Reteaching: 375–376 Sets A, C, D
a. Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.	**SE:** 331, 332, 333–336, 341–344, 345–348, 349–352, 353–356, 369–372, Reteaching: 375–376 Sets A, C, D **TE:** 331–331A, 332–332C, 333A–336B, 341A–344B, 345A–348B, 349A–352B, 353A–356B, 369A–372B, Reteaching: 375–376 Sets A, C, D
b. Decompose a fraction into a sum of fractions with the same denominator in more than one way (e.g., 3/8 = 1/8 + 1/8+1/8; 3/8 = 2/8 + 1/8; 2 1/8 = 1 + 1 + 1/8 + or 2 1/8 = 8/8 + 8/8 + 1/8).	**SE:** 332, 337–340, Reteaching: 375 Sets A, B; 416, 553–556 **TE:** 332-332A, 337A–340B, Reteaching: 375 Sets A, B; 416-416C, 553A–556B
c. Add and subtract mixed numbers with like denominators (e.g., by using properties of operations and the relationship between addition and subtraction and/or by replacing each mixed number with an equivalent fraction).	**SE:** 331, 332, 57–360, 361–364, 365–368, 369–372, Reteaching: 376 Set E; Reteaching: 407 Set C; 429–432, 569–572 **TE:** 331-331A, 332-332C, 357A–360B, 361A–364B, 365A–368B, 369A–372B, 376, Reteaching: 376 Set E; Reteaching: 407 Set C; 429A–432B, 569A–572B

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d. Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators.	**SE:** 331, 332, 33–336, 341–344, 345–348, 349–352, 353–356, 357–360, 361–364, 365–368, 369–372, Reteaching: 376 Set F; 397–400, 401–404, 417–420, 421–424, 425–428, 429–432, Reteaching: 435–436 Sets A–D; 481–484, 485–488, 489–492 **TE:** 331–331A, 332–332C, 333A–336B, 341A–344B, 345A–348B, 349A–352B, 353A–356B, 357A–360B, 361A–364B, 365A–368B, 369A–372B, Reteaching: 376 Set F; 397A–400B, 401A–404B, 417A–420B, 421A–424B, 425A–428B, 429A–432B, Reteaching: 435–436 Sets A–D; 481A–484B, 485A–488B, 489A–492B
4.NF.B.4 Build fractions from unit fractions.	**SE:** 383–384, 385–388, 89–392, 393–396, Reteaching: 407 Sets A, B **TE:** 383–384A, 385A–388B, 389A–392B, 393A–396B, Reteaching: 407 Sets A, B
a. Understand a fraction a/b as a multiple of a unit fraction 1/b. In general, a/b = a x 1/b .	**SE:** 383–384, 385–388, 89–392, 393–396, Reteaching: 407 Sets A, B **TE:** 383–384A, 385A–388B, 389A–392B, 393A–396B, Reteaching: 407 Sets A, B
b. Understand a multiple of a/b as a multiple of a unit fraction 1/b , and use this understanding to multiply a whole number by a fraction. In general, n x a/b = (n x a)/b.	**SE:** 389–392, 393–396, Reteaching: 407 Sets B, C **TE:** 389A–392B, 393A–396B, Reteaching: 407 Sets B, C
c. Solve word problems involving multiplication of a whole number by a fraction. For example, if each person at a party will eat 3/8 of a pound of roast beef, and there will be 5 people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie?	**SE:** 383–384, 389–392, 393–396, 397–400, 401–404, Reteaching: 407–408 Sets C, E; 481–484, 485–488, 489–492, 501–504, 505–508 **TE:** 383–384A, 389A–392B, 393A–396B, 397A–400B, 401A–404B, Reteaching: 407–408 Sets C, E; 481A–484B, 485A–488B, 489A–492B, 501A–504B, 505A–508B

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4.NF.C Understand decimal notation for fractions, and compare decimal fractions.	
4.NF.C.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 (tenths) and 100 (hundredths). For example, express 3/10 as 30/100, and and 3/10 + 4/100 = 34/100. (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.)	**SE:** 443–444, 457–460, Reteaching: 472 Set D **TE:**, 443–444A, 457A–460B, Reteaching: 472 Set D
4.NF.C.6 Use decimal notation for fractions with denominators 10 (tenths) or 100 (hundredths), and locate these decimals on a number line.	**SE:** 443–444, 445–448, 449–452, Reteaching: 471 Sets A, B **TE:** 443A–444B, 445A–448B, 449A–452B, Reteaching: 471 Sets A, B
4.NF.C.7 Compare two decimals to hundredths by reasoning about their size. Understand that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols >, =, or <.	**SE:**, 443–444, 453–456, 65–468, Reteaching: 471 Set C; 493–496 **TE:** 443–444A, 453A–456B, 465A–468B, Reteaching: 471 Set C; 493A–496B
Measurement and Data (MD)	
4.MD.A Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	
4.MD.A.1 Know relative sizes of measurement units within one system of units which could include km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit and in a smaller unit in terms of a larger unit. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1,12), 2,24), (3,36).	**SE:** 397–400, 479, 480, 481–484, 485–488, 489–492, 493–496, 497–500, Reteaching: 511 Sets A, B **TE:** 397A–400B, 479–479A, 480-480C, 481A–484B, 485A–488B, 489A–492B, 493A–496B, 497A–500B, Reteaching: 511 Sets A, B

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4.MD.A.2 Use the four operations to solve word problems and problems in real-world context involving distances, intervals of time (hr, min, sec), liquid volumes, masses of objects, and money, including decimals and problems involving fractions with like denominators, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using a variety of representations, including number lines that feature a measurement scale.	**SE:** 383–384, 397–400, 401–404, Reteaching: 408 Set D; 449–452, 453–456, 461–464, 465–468, Reteaching: 472 Set E; 480, 481–484, 485–488, 489–492, 493–496, 497–500, 501–504, 505–508, Reteaching: 511 Set A **TE:** 383–384A, 397A–400B, 401A–404B, Reteaching: 408 Set D; 449A–452B, 453A–456B, 461A–464B, 465A–468B, Reteaching: 472 Set E; 480–480C, 481A–484B, 485A–488B, 489A–492B, 493A–496B, 497A–500B, 501A–504B, 505A–508B, Reteaching: 511 Set A
4.MD.A.3 Apply the area and perimeter formulas for rectangles in mathematical problems and problems in real-world contexts including problems with unknown side lengths.	**SE:** 153–156, 168, 479, 501–504, 505–508, Reteaching: 512 Sets C; D605–608 **TE:** 153A–156B, 168–168C, 479–479A, 501A–504B, 505A–508B, Reteaching: 512 Sets C; D605A–608B
4.MD.B Represent and interpret data.	
4.MD.B.4 Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Solve problems involving addition and subtraction of fractions by using information presented in line plots.	**SE:** 415, 416, 417–420, 421–424, 425–428, 429–432, Reteaching: 435–436 Sets A–D **TE:** 415, 416, 417–420, 421–424, 425–428, 429–432, Reteaching: 435–436 Sets A–D
4.MD.C Geometric measurement: Understand concepts of angle and measure angles.	
4.MD.C.5 Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand concepts of angle measurement:	**SE:** 547, 549–552, 553–556, 557–560, 569–572, Reteaching: 575 Set B; 589-592 **TE:** 547-547A, 549A–552B, 553A–556B, 557A–560B, 569A–572B, Reteaching: 575 Set B; 589A-592B\
a. 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 1/360 of a circle is called a “one-degree angle,” and can be used to measure angles.	**SE:** 547, 549–552, 553–556, 557–560, 569–572, Reteaching: 575 Set B; 589-592 **TE:** 547, 549A–552B, 553A–556B, 557A–560B, 569A–572B, Reteaching: 575 Set B; 589A-592B

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b. An angle that turns through n one-degree angles is said to have an angle measure of n degrees.	**SE:** 547, 557–560, 561–564, 569–572, Reteaching: 576 Set D; 589–592 **TE:** 547, 557A–560B, 561A–564B, 569A–572B, Reteaching: 576 Set D; 589A–592B
4.MD.C.6 Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure.	**SE:** 547, 548, 561–564, 569–572, Reteaching: 576 Sets D, F **TE:** 547–547A, 548–548C, 561A–564B, 569A–572B, Reteaching: 576 Sets D, F
4.MD.C.7 Understand angle measures 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 within mathematical problems as well as problems in real-world contexts.	**SE:** 565–568, 569–572, Reteaching: 576 Set E **TE:** 565A–568B, 569A–572B, Reteaching: 576 Set E
Geometry (G)	
4.G.A Draw and identify lines and angles, and classify shapes by properties of their lines and angles.	
4.G.A.1 Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.	**SE:** 547, 548, 549–552, Reteaching: 575 Set A; 583–584, 585–588, 589–592, 593–596, 605–608, Reteaching: 611 Set A **TE:** 547–547A, 548–548C, 549A–552B, Reteaching: 575 Set A; 583–584A, 585A–588B, 589A–592B, 593A–596B, 605A–608B, Reteaching: 611 Set A
4.G.A.2 Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size (e.g., understand right triangles as a category, and identify right triangles).	**SE:** 583–584, 589–592, 593–596, 605–608, Reteaching: 611–612 Sets B, C, F **TE:** 583–584A, 589A–592B, 593A–596B, 605A–608B, Reteaching: 611–612 Sets B, C, F
4.G.A.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:** 583–584, 597–600, 601–604, Reteaching: 612 Sets D, E **TE:** 583–584A, 597A–600B, 601A–604B, Reteaching: 612 Sets D, E

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Standards for Mathematical Practice	
4.MP.1 Make sense of problems and persevere in solving them. Mathematically proficient students explain to themselves the meaning of a problem, look for entry points to begin work on the problem, and plan and choose a solution pathway. While engaging in productive struggle to solve a problem, they continually ask themselves, "Does this make sense?" to monitor and evaluate their progress and change course if necessary. Once they have a solution, they look back at the problem to determine if the solution is reasonable and accurate. Mathematically proficient students check their solutions to problems using different methods, approaches, or representations. They also compare and understand different representations of problems and different solution pathways, both their own and those of others.	**enVision Mathematics** 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 SavvasRealize.com, 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. **Student's Edition and Teacher's Edition pages** 13–16, 21–24, 49–52, 53–56, 65–68, 81–84, 105–108, 109–112, 153–156, 205–208, 233–236, 237–240, 245–248, 261–264, 293–296
4.MP.2 Reason abstractly and quantitatively. Mathematically proficient students make sense of quantities and their relationships in problem situations. Students can contextualize and decontextualize problems involving quantitative relationships. They contextualize quantities, operations, and expressions by describing a corresponding situation. They decontextualize a situation by representing it symbolically. As they manipulate the symbols, they can pause as needed to access the meaning of the numbers, the units, and the operations that the symbols represent. Mathematically proficient students know and flexibly use different properties of operations, numbers, and geometric objects and when appropriate they interpret their solution in terms of the context.	**enVision Mathematics** 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. **Student's Edition and Teacher's Edition pages** 5–8, 9–12, 13–16, 17–20, 21–24, 41–44, 57–60, 61–64, 65–68, 81–84, 85–88, 105–108, 129–132, 133–136, 137–140

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4.MP.3 Construct viable arguments and critique the reasoning of others. Mathematically proficient students construct mathematical arguments (explain the reasoning underlying a strategy, solution, or conjecture) using concrete, pictorial, or symbolic referents. Arguments may also rely on definitions, assumptions, previously established results, properties, or structures. Mathematically proficient students make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. Mathematically proficient students present their arguments in the form of representations, actions on those representations, and explanations in words (oral or written). Students critique others by affirming or questioning the reasoning of others. They can listen to or read the reasoning of others, decide whether it makes sense, ask questions to clarify or improve the reasoning, and validate or build on it. Mathematically proficient students can communicate their arguments, compare them to others, and reconsider their own arguments in response to the critiques of others.	Consistent with a focus on reasoning and sense-making is a focus on critical reasoning—argumentation and critique of arguments. In **enVision Mathematics**, 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. **Student's Edition and Teacher's Edition pages** 9–12, 17–20, 21–24, 37–40, 41–44, 45–48, 49–52, 57–60, 61–64, 85–88, 101–104, 137–140, 149–152, 177–180, 181–184
4.MP.4 Model with mathematics. Mathematically proficient students apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. When given a problem in a contextual situation, they identify the mathematical elements of a situation and create a mathematical model that represents those mathematical elements and the relationships among them. Mathematically proficient students use their model to analyze the relationships and draw conclusions. They interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.	Students using **enVision Mathematics** 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. **Student's Edition and Teacher's Edition pages** 5–8, 13–16, 65–68, 89–92, 93–96, 109–112, 133–136, 141–144, 145–148, 153–156, 169–172, 177–180, 181–184, 185–188, 193–196

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4.MP.5 Use appropriate tools strategically. Mathematically proficient students consider available tools when solving a mathematical problem. They choose tools that are relevant and useful to the problem at hand. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful; recognizing both the insight to be gained and their limitations. Students deepen their understanding of mathematical concepts when using tools to visualize, explore, compare, communicate, make and test predictions, and understand the thinking of others.	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. **Student's Edition and Teacher's Edition pages** 17–20, 45–48, 53–56, 97–100, 133–136, 193–196, 245–248, 293–296, 297–300, 313–316, 317–320, 333–336, 337–340, 345–348, 353–356
4.MP.6 Attend to precision. Mathematically proficient students clearly communicate to others using appropriate mathematical terminology, and craft explanations that convey their reasoning. When making mathematical arguments about a solution, strategy, or conjecture, they describe mathematical relationships and connect their words clearly to their representations. Mathematically proficient students understand meanings of symbols used in mathematics, calculate accurately and efficiently, label quantities appropriately, and record their work clearly and concisely.	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. **Student's Edition and Teacher's Edition pages** 21–24, 37–40, 97–100, 105–108, 153–156, 197–200, 245–248, 269–272, 305–308, 345–348, 393–396, 417–420, 449–452, 465–468, 481–484

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4.MP.7 Look for and make use of structure. Mathematically proficient students use structure and patterns to assist in making connections among mathematical ideas or concepts when making sense of mathematics. Students recognize and apply general mathematical rules to complex situations. They are able to compose and decompose mathematical ideas and notations into familiar relationships. Mathematically proficient students manage their own progress, stepping back for an overview and shifting perspective when needed.	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. **Student's Edition and Teacher's Edition pages** 5–8, 37–40, 45–48, 53–56, 57–60, 61–64, 81–84, 89–92, 93–96, 97–100, 101–104, 129–132, 141–144, 145–148, 149–152
4.MP.8 Look for and express regularity in repeated reasoning. Mathematically proficient students look for and describe regularities as they solve multiple related problems. They formulate conjectures about what they notice and communicate observations with precision. While solving problems, students maintain oversight of the process and continually evaluate the reasonableness of their results. This informs and strengthens their understanding of the structure of mathematics which leads to fluency.	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. **Student's Edition and Teacher's Edition pages** 9–12, 49–52, 269–272, 309–312, 361–364, 365–368, 389–392, 421–424, 461–464, 481–484, 485–488, 489–492, 497–500, 521–524, 557–560

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Operations and Algebraic Thinking (OA)	
5.OA.A Write and interpret numerical expressions	
5.OA.A.1 Use parentheses and brackets in numerical expressions, and evaluate expressions with these symbols (Order of Operations).	**SE:** 535, 537–540, 541–544, 549–552, Reteaching: 555–556 Sets A, B, D **TE:** 535–535A, 537A–540B, 541A–544B, 549A–552B, Reteaching: 555–556 Sets A, B, D
5.OA.A.2 Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them (e.g., express the calculation "add 8 and 7, then multiply by 2" as 2 x (8 + 7). Recognize that 3 x (18,932 + 921) is three times as large as 18,932 + 921, without having to calculate the indicated sum or product).	**SE:** 535, 536, 541–544, 545–548, Reteaching: 556 Sets C, D **TE:** 535–535A, 536–536C, 541A–544B, 545A–548B, Reteaching: 556 Sets C, D
5.OA.B Analyze patterns and relationships.	
5.OA.B.3 Generate two numerical patterns using two given rules (e.g., generate terms in the resulting sequences). Identify and explain the apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane (e.g., given the rule "add 3" and the starting number 0, and given the rule "add 6" and the starting number 0, generate terms in the resulting sequences, and observe that the terms in one sequence are twice the corresponding terms in the other sequence).	**SE:** 591, 592, 593–596, 597–600, 601–604, 605–608, Reteaching: 611–612 Sets A–D **TE:** 591, 592, 593A–596B, 597A–600B, 601A–604B, 605A–608B, Reteaching: 611–612 Sets A–D
5.OA.B.4 Understand primes have only two factors and decompose numbers into prime factors.	**SE:** 259, 273-276, Reteaching: 274 Set D **TE:** 259-259A, 273A-276B, Reteaching: 274 Set D

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Number and Operations in Base Ten (NBT)	
5.NBT.A Understand the place value system.	
5.NBT.A.1 Apply concepts of place value, multiplication, and division to understand that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.	**SE:** 4, 9–12, 13–16, Reteaching: 35 Sets B, C, 80, 81–84, Reteaching: 119 Set A **TE:** 4–4C, 9A–12B, 13A–16B, Reteaching: 35 Sets B, C, 80–80C, 81A–84B, Reteaching: 119 Set A
5.NBT.A.2 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10.	**SE:** 3, 5–8, Reteaching: 35 Set A; 80, 81–84, Reteaching: 119 Set A; 127–128, 129–132, Reteaching: 167 Set A; 229–232, Reteaching: 255 Set A; 267, 268, 501–504, 505–508, 509–512, Reteaching: 527–528 Sets D–F **TE:** 3–3A, 5A–8B, Reteaching: 35 Set A; 80–80C, 81A–84B, Reteaching: 119 Set A; 127–128A, 129A–132B, Reteaching: 167–168 Set A; 229A–232B, Reteaching: 255–256 Set A; 267–267A, 268-268C, 501A-504B, 505A-508B, 509A-512B, Reteaching: 527-528 Sets D-F
5.NBT.A.3 Read, write, and compare decimals to thousandths.	**SE:** 3, 4, 13–16, 17–20, 29–32, Reteaching: 35–36 Sets C, F **TE:** 3–3A, 4–4C, 13A–16B, 17A–20B, 29A–32B, Reteaching: 35–36 Sets C, F
a. Read and write decimals to thousandths using base-ten numerals, number names, and expanded form.	**SE:** 3, 4, 13–16, 17–20, 29–32, Reteaching: 35–36 Sets C, F **TE:** 3, 4, 13A–16B, 17A–20B, 29A–32B, Reteaching: 35–36 Sets C, F
b. Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.	**SE:** 4, 21–24, 29–32, Reteaching: 36 Sets D, F **TE:** 4–4C, 21A–24B, 29A–32B, Reteaching: 36 Sets D, F

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5.NBT.A.4 Use place value understanding to round decimals to any place.	**SE:** 4, 25–28, Reteaching: 36 Set E; 45–48, 49–52, Reteaching: 71 Set B **TE:** 4–4C, 25A–28B, Reteaching: 36 Set E; 45A–48B, 49A–52B, Reteaching: 71 Set B
5.NBT.B Perform operations with multi-digit whole numbers and with decimals to hundredths.	
5.NBT.B.5 Fluently multiply multi-digit whole numbers using a standard algorithm.	**SE:** 80, 85–88, 89–92, 93–96, 97–100, 101–104, 105–108, 109–112, 113–116, Reteaching: 119–120 Sets B–G; 487–488, 489–492, 493–496, 497–500, 513–516, 517–520, 521–524, Reteaching: 527–528 Sets A, B, C, G, H **TE:** 80–80C, 85A–88B, 89A–92B, 93A–96B, 97A–100B, 101A–104B, 105A–108B, 109A–112B, 113A–116B, Reteaching: 119–120 Sets B–G; 487–488A, 489A–492B, 493A–496B, 497A–500B, 513A–516B, 517A–520B, 521A–524B, Reteaching: 527–528 Sets A, B, C, G, H
5.NBT.B.6 Apply and extend understanding of division to find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors.	**SE:** 179, 181–184, 185–188, 189–192, 193–196, 197–200, 201–204, 205–208, 209–212, Reteaching: 215–218 Sets A–H; 487–488, 489–492, 493–496, 497–500, 513–516 **TE:** 179–179A, 181A–184B, 185A–188B, 189A–192B, 193A–196B, 197A–200B, 201A–204B, 205A–208B, 209A–212B, Reteaching: 215–218 Sets A–H; 487–488A, 489A–492B, 493A–496B, 497A–500B, 513A–516B

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5.NBT.B.7 Add, subtract, multiply, and divide decimals to hundredths, connecting objects or drawings to strategies based on place value, properties of operations, and/or the relationship between operations. Relate the strategy to a written form.	**SE:** 43–44, 45–48, 49–52, 53–56, 57–60, 61–64, 65–68, Reteaching: 71–72 Sets A–E; 79, 81-84, 85-88, 89-92, 93-96, 97-100, 127–128, 129–132, 133–136, 137–140, 141–144, 145–148, 149–152, 153–156, 157–160, 161–164, Reteaching: 167–170 Sets A–F; 227-228, 229–232, 233–236, 237–240, 241–244, 245–248, 248–252, Reteaching: 255–258 Sets A–F; 268 **TE:** 43–44A, 45A–48B, 49A–52B, 53A–56B, 57A–60B, 61A–64B, 65A–68B, Reteaching: 71–72 Sets A–E; 79–79A, 81A-84B, 85A-88B, 89A-92B, 93A-96B, 97A-100B, 127–128A, 129A–132B, 133A–136B, 137A–140B, 141A–144B, 145A–148B, 149A–152B, 153A–156B, 157A–160B, 161A–164B, Reteaching: 167–170 Sets A–F; 229A–232B, 233A–236B, 237A–240B, 241A–244B, 245A–248B, 249A–252B, Reteaching: 255–258 Sets A–F; 268–268C
Number and Operations – Fractions (NF)	
5.NF.A Use equivalent fractions to add and subtract fractions.	
5.NF.A.1 Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators (e.g., 2/3 + 5/4 = 8/12 + 15/12 = 23/12).	**SE:** 268, 269–272, 273–276, 277–280, 281–284, 285–288, 289–292, 293–296, 297–300, 301–304, 305–308, 309–312, Reteaching: 319–322 Sets A–G **TE:** 268–268C, 269A–272B, 273A–276B, 277A–280B, 281A–284B, 285A–288B, 289A–292B, 293A–296B, 297A–300B, 301A–304B, 305A–308B, 309A–312B, Reteaching: 319–322 Sets A–G

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5.NF.A.2 Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators by using a variety of representations, equations, and visual models to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers (e.g. recognize an incorrect result 2/5 + 1/2 = 3/7, by observing that 3/7 < 1/2).	**SE:** 268, 269–272, 273–276, 277–280, 281–284, 285–288, 289–292, 293–296, 297–300, 301–304, 305–308, 309–312, 313–316, Reteaching: 19–322 Sets A–H; 427–428, 429–432, 433–436, 437–440, 441–444, Reteaching: 448 Sets C, D **TE:** 268–268C, 269A–272B, 273A–276B, 277A–280B, 281A–284B, 285A–288B, 289A–292B, 293A–296B, 297A–300B, 301A–304B, 305A–308B, 309A–312B, Reteaching: 319–322 Sets A–H; 427–428A, 429A–432B, 433A–436B, 437A–440B, 441A–444B, Reteaching: 448 Sets C, D
5.NF.B Use previous understandings of multiplication and division to multiply and divide fractions.	
5.NF.B.3 Interpret a fraction as the number that results from dividing the whole number numerator by the whole number denominator (a/b = a ÷ b). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers. For example, interpret 3/4 as the result of dividing 3 by 4, noting that 3/4 multiplied by 4 equals 3, and that when 3 wholes are shared equally among 4 people, each person has a share of size 3/4. If 9 people want to share a 50-pound sack of rice equally by weight, how many pounds of rice should each person get? Between what two whole numbers does your answer lie?	**SE:** 384, 385–388, 389–392, Reteaching: 419 Set A **TE:** 384–384C, 385A–388B, 389A–392B, Reteaching: 419 Set A
5.NF.B.4 Apply and extend previous understandings of multiplication to multiply a fraction by a whole number and a fraction by a fraction.	**SE:** 331–332, 333–336, 337–340, 341–344, 345–348, 349–352, Reteaching: 371–372 Sets A–D **TE:** 331–332A, 333A–336B, 337A–340B, 341A–344B, 345A–348B, 349A–352B, Reteaching: 371–372 Sets A–D
a. Interpret the product (a/b) x q as a parts of a partition of q into b equal parts. For example, use a visual fraction model to show (2/3) x 4 = 8/3, and create a story context for this equation.	**SE:** 331–332, 333–336, 337–340, 341–344, 345–348, 349–352, Reteaching: 371–372 Sets A–D **TE:** 331–332A, 333A–336B, 337A–340B, 341A–344B, 345A–348B, 349A–352B, Reteaching: 371–372 Sets A–D

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b. Interpret the product of a fraction multiplied by a fraction (a/b) x (c/d). Use a visual fraction model and create a story context for this equation. For example, use a visual fraction model to show (2/3) x (4/5) = 8/15, and create a story context for this equation. In general, (a/b) x (c/d) = ac/bd.	**SE:** 345-348, 349-352, Reteaching: 372 Sets C, D **TE:** 345A-348B, 349A-352B, Reteaching: 372 Sets C, D
c. Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths. Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas.	**SE:** 331–332, 353–356, Reteaching: 372 Set E **TE:** 331–332, 353A–356B, Reteaching: 371–372 Set E
5.NF.B.5 Interpret multiplication as scaling (resizing), by:	
a. Comparing the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.	**SE:** 331–332, 361–364, Reteaching: 374 Set G **TE:** 331–332, 361A–364B, Reteaching: 374 Set G
b. Explaining why multiplying a given number by a fraction greater than 1 results in a product greater than the given number; explaining why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; and relating the principle of fraction equivalence a/b = (n x a)/(n x b) to the effect of multiplying a/b by 1.	**SE:** 361–364, Reteaching: 374 Set G **TE:** 361A–364B, Reteaching: 374 Set G
5.NF.B.6 Solve problems in real-world contexts involving multiplication of fractions, including mixed numbers, by using a variety of representations including equations and models.	**SE:** 333–336, 337–340, 357–360, 365–368, 371, Reteaching: 373–374 Sets A, B, F, H; 384, 437–440 **TE:** 333A–336B, 337A–340B, 357A–360B, 365A–368B, Reteaching: 373–374 Sets A, B, F, H; 384-384C, 437A–440B

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5.NF.B.7 Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions.	**SE:** 384 **TE:** 384-384C
a. Interpret division of a unit fraction by a non-zero whole number, and compute such quotients. Use the relationship between multiplication and division to justify conclusions.	**SE:** 383, 393–396, 397–400, 405–408, 409–412, Reteaching: 419–420 Sets B–D **TE:** 383–383A, 393A–396B, 397A–400B, 405A–408B, 409A–412B, Reteaching: 419–420 Sets B–D
b. Interpret division of a whole number by a unit fraction, and compute such quotients. For example, create a story context for 4 ÷ (1/5), and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to justify conclusions (e.g., 4 ÷ (1/5) = 20 because 20 x (1/5) = 4).	**SE:** 383, 393–396, 397–400, 401–404, 405–408, 409–412, Reteaching: 419–420 Sets B–D **TE:** 383–383A, 393A–396B, 397A–400B, 401A–404B, 405A–408B, 9A–412B, Reteaching: 419–420 Sets B–D
c. Solve problems in real-world context involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, using a variety of representations.	**SE:** 383, 393–396, 397–400, 401–404, 405–408, 409–412, Reteaching: 419–420 Sets B–D **TE:** 383–383A, 393A–396B, 397A–400B, 401A–404B, 405A–408B, 409A–412B, Reteaching: 419–420 Sets B–D
Measurement and Data (MD)	
5.MD.A Convert like measurement units within a given measurement system.	
5.MD.A.1 Convert among different-sized standard measurement units within a given measurement system, and use these conversions in solving multi-step, real-world problems.	**SE:** 487–488, 489–492, 93–496, 497–500, 501–504, 505–508, 509–512, 513–516, 517–520, 521–524, Reteaching: 527–528 Sets A–H; 536 **TE:** 487–488A, 489A–492B, 493A–496B, 497A–500B, 501A–504B, 505A–508B, 509A–512B, 513A–516B, 517A–520B, 521A–524B, Reteaching: 527–528 Sets A–H; 536–536C

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5.MD.B Represent and interpret data.	
5.MD.B.2 Make a line plot to display a data set of measurements in fractions of a unit (1/8, 1/2, 3/4). Use operations on fractions for this grade to solve problems involving information presented in line plots. For example, given different measurements of liquid in identical beakers, find the amount of liquid each beaker would contain if the total amount in all the beakers were redistributed equally.	**SE:** 427–428, 429–432, 433–436, 437–440, 441–444, Reteaching: 447–448 Sets A–C **TE:** 427–428A, 429A–432B, 433A–436B, 437A–440B, 441A-444B, Reteaching: 447–448 Sets A–C
5.MD.C Geometric measurement: Understand concepts of volume and relate volume to multiplication and to addition.	
5.MD.C.3 Recognize volume as an attribute of solid figures and understand concepts of volume measurement.	**SE:** 456 **TE:** 455-456C
a. A cube with side length 1 unit, called a "unit cube," is said to have "one cubic unit" of volume, and can be used to measure volume.	**SE:** 455, 457–460, 473–476, Reteaching: 479 Set A **TE:** 455–455A, 457A–460B, 473A–476B, Reteaching: 479 Set A
b. A solid figure which can be packed without gaps or overlaps using n unit cubes is said to have a volume of n cubic units.	**SE:** 457–460, 473–476, Reteaching: 479 Set A **TE:** 457A–460B, 473A–476B, Reteaching: 479 Set A
5.MD.C.4 Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.	**SE:** 456, 457–460, 461–464, 473–476 **TE:** 456, 457A–460B, 461A–464B, 473A–476B
5.MD.C.5 Relate volume to the operations of multiplication and addition and solve mathematical problems and problems in real-world contexts involving volume.	**SE:** 456, 461-464, Reteaching: 479 Set B **TE:** 456-456C, 461A-464B, Reteaching: 479 Set B

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a. Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. Represent threefold whole-number products as volumes (e.g., to represent the associative property of multiplication).	**SE:** 456, 461-464, Reteaching: 479 Set B **TE:** 456-456C, 461A-464B, Reteaching: 479 Set B
b. Understand and use the formulas V = l x w x h and V = B x h, where in this case B is the area of the base (B = l x w), for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths to solve mathematical problems and problems in real-world contexts.	**SE:** 455, 461-464, Reteaching: 479 Set B **TE:** 455-455A, 461A-464B, Reteaching: 479 Set B
c. Understand volume as additive. Find volumes of solid figures composed of two non-overlapping right rectangular prisms, applying this technique to solve mathematical problems and problems in real-world contexts.	**SE:** 455, 465-468, 469–472, Reteaching: 480 Sets C, D **TE:** 455-455A, 465A-468B, 469A–472B, Reteaching: 480 Sets C, D
Geometry (G)	
5.G.A Graph points on the coordinate plane to solve mathematical problems as well as problems in real-world context.	
5.G.A.1 Understand and describe a coordinate system as perpendicular number lines, called axes, that intersect at the origin (0 , 0). Identify a given point in the first quadrant of the coordinate plane using an ordered pair of numbers, called coordinates. Understand that the first number (x) indicates the distance traveled on the horizontal axis, and the second number (y) indicates the distance traveled on the vertical axis.	**SE:** 563–564, 565–568, 569–572, 577–580, Reteaching: 583–584 Sets A, B, C **TE:** 563–564A, 565A–568B, 569A–572B, 577A–580B, Reteaching: 583–584 Sets A, B, C

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5.G.A.2 Represent real-world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.	**SE:** 563–564, 569–572, 573–576, 577–580, Reteaching: 583–584 Sets B, C; 592, 601–604, Reteaching: 612 Set C **TE:** 563–564A, 569A–572B, 573A–576B, 577A–580B, Reteaching: 583–584 Sets B, C; 592–592C, 601A–604B, Reteaching: 612 Set C
5.G.B Classify two-dimensional figures into categories based on their properties.	
5.G.B.3 Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.	**SE:** 619–620, 621–624, 625–628, 629–632, 633–636, Reteaching: 639–640 Sets A–D **TE:** 619–620A, 621A–624B, 625A–628B, 629A–632B, 633A–636B, 639–Reteaching: 640 Sets A–D
5.G.B.4 Classify two-dimensional figures in a hierarchy based on properties.	**SE:** 619–620, 621–624, 625–628, 629–632, 633–636, Reteaching: 639–640 Sets B, C, D **TE:** 619–620A, 621A–624B, 625A–628B, 629A–632B, 633A–636B, 639–Reteaching: 640 Sets B, C, D

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Standards for Mathematical Practice	
5.MP.1 Make sense of problems and persevere in solving them. Mathematically proficient students explain to themselves the meaning of a problem, look for entry points to begin work on the problem, and plan and choose a solution pathway. While engaging in productive struggle to solve a problem, they continually ask themselves, “Does this make sense?" to monitor and evaluate their progress and change course if necessary. Once they have a solution, they look back at the problem to determine if the solution is reasonable and accurate. Mathematically proficient students check their solutions to problems using different methods, approaches, or representations. They also compare and understand different representations of problems and different solution pathways, both their own and those of others.	**enVision Mathematics** 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 SavvasRealize.com, 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. **Student’s Edition and Teacher’s Edition pages** 25–28, 53–56, 61–64, 65–68, 89–92, 93–96, 97–100, 101–104, 109–112, 113–116, 137–140, 149–152, 153–156, 161–164, 185–188

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5.MP.2 Reason abstractly and quantitatively. Mathematically proficient students make sense of quantities and their relationships in problem situations. Students can contextualize and decontextualize problems involving quantitative relationships. They contextualize quantities, operations, and expressions by describing a corresponding situation. They decontextualize a situation by representing it symbolically. As they manipulate the symbols, they can pause as needed to access the meaning of the numbers, the units, and the operations that the symbols represent. Mathematically proficient students know and flexibly use different properties of operations, numbers, and geometric objects and when appropriate they interpret their solution in terms of the context.	**enVision Mathematics** 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. **Student's Edition and Teacher's Edition pages** 13–16, 45–48, 49–52, 85–88, 105–108, 113–116, 133–136, 157–160, 197–200, 201–204, 205–208, 209–212, 229–232, 233–236, 237–240

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5.MP.3 Construct viable arguments and critique the reasoning of others. Mathematically proficient students construct mathematical arguments (explain the reasoning underlying a strategy, solution, or conjecture) using concrete, pictorial, or symbolic referents. Arguments may also rely on definitions, assumptions, previously established results, properties, or structures. Mathematically proficient students make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. Mathematically proficient students present their arguments in the form of representations, actions on those representations, and explanations in words (oral or written). Students critique others by affirming or questioning the reasoning of others. They can listen to or read the reasoning of others, decide whether it makes sense, ask questions to clarify or improve the reasoning, and validate or build on it. Mathematically proficient students can communicate their arguments, compare them to others, and reconsider their own arguments in response to the critiques of others.	Consistent with a focus on reasoning and sense-making is a focus on critical reasoning—argumentation and critique of arguments. In **enVision Mathematics**, 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. **Student's Edition and Teacher's Edition pages** 9–12, 13–16, 21–24, 25–28, 45–48, 49–52, 53–56, 57–60, 65–68, 81–84, 85–88, 89–92, 93–96, 97–100, 109–112

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5.MP.4 Model with mathematics. Mathematically proficient students apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. When given a problem in a contextual situation, they identify the mathematical elements of a situation and create a mathematical model that represents those mathematical elements and the relationships among them. Mathematically proficient students use their model to analyze the relationships and draw conclusions. They interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.	Students using **enVision Mathematics** 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. **Student's Edition and Teacher's Edition pages** 5–8, 65–68, 89–92, 93–96, 101–104, 105–108, 109–112, 145–148, 161–164, 185–188, 193–196, 197–200, 241–244, 249–252, 277–280
5.MP.5 Use appropriate tools strategically. Mathematically proficient students consider available tools when solving a mathematical problem. They choose tools that are relevant and useful to the problem at hand. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful; recognizing both the insight to be gained and their limitations. Students deepen their understanding of mathematical concepts when using tools to visualize, explore, compare, communicate, make and test predictions, and understand the thinking of others.	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. **Student's Edition and Teacher's Edition pages** 5–8, 61–64, 81–84, 149–152, 189–192, 197–200, 237–240, 273–276, 293–296, 301–304, 353–356, 397–400, 401–404, 457–460, 473–476

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5.MP.6 Attend to precision. Mathematically proficient students clearly communicate to others using appropriate mathematical terminology, and craft explanations that convey their reasoning. When making mathematical arguments about a solution, strategy, or conjecture, they describe mathematical relationships and connect their words clearly to their representations. Mathematically proficient students understand meanings of symbols used in mathematics, calculate accurately and efficiently, label quantities appropriately, and record their work clearly and concisely.	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. **Student's Edition and Teacher's Edition pages** 17–20, 21–24, 29–32, 105–108, 113–116, 133–136, 145–148, 161–164, 181–184, 249–252, 305–308, 309–312, 341–344, 349–352, 361–364
5.MP.7 Look for and make use of structure. Mathematically proficient students use structure and patterns to assist in making connections among mathematical ideas or concepts when making sense of mathematics. Students recognize and apply general mathematical rules to complex situations. They are able to compose and decompose mathematical ideas and notations into familiar relationships. Mathematically proficient students manage their own progress, stepping back for an overview and shifting perspective when needed.	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. **Student's Edition and Teacher's Edition pages** 5–8, 9–12, 13–16,17–20, 25–28, 29–32, 61–64, 101–104, 129–132, 153–156, 181–184, 201–204, 229–232, 245–248, 297–300

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5.MP.8 Look for and express regularity in repeated reasoning. Mathematically proficient students look for and describe regularities as they solve multiple related problems. They formulate conjectures about what they notice and communicate observations with precision. While solving problems, students maintain oversight of the process and continually evaluate the reasonableness of their results. This informs and strengthens their understanding of the structure of mathematics which leads to fluency.	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. **Student's Edition and Teacher's Edition pages** 17–20, 29–32, 57–60, 133–136, 141–144, 145–148, 157–160, 281–284, 289–292, 301–304, 357–360, 413–416, 433–436, 489–492, 493–496