

| 4.NS. 2 | Model mixed numbers and improper fractions using visual fraction models such as number lines and area models. Use a visual fraction model to show the equivalency between whole numbers and whole numbers as fractions. |  |  |  | $\begin{aligned} & 11,20 \\ & \text { SB: } 30-6,30-9 \end{aligned}$ |
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| 4.NS.3 | Use fraction models to represent two equivalent fractions with attention to how the number and size of the parts differ even though the fractions themselves are the same size. Use this principle to generate equivalent fractions. [In grade 4, limit denominators of fractions to $2,3,4,5,6,8,10,25,100$.] (E) |  |  |  | $14$ <br> SB: 32-2 |
| 4.NS. 4 | Compare two fractions with different numerators and different denominators (e.g., by creating common denominators or numerators, or by comparing to a benchmark, such as $0,1 / 2$, and 1 ). Explain why comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols $>$, $=$, or <, and justify the conclusions (e.g., by using a visual fraction model). (E) |  |  |  | $\begin{aligned} & 15 \\ & \text { SB: } 32-1,32-4 \end{aligned}$ |
| 4.NS. 5 | Write tenths and hundredths in decimal and fraction notations. Use words, models, standard form, and expanded form to represent decimal numbers to hundredths. Mentally calculate fraction and decimal equivalents for halves and fourths (e.g., $1 / 2=$ $0.5=0.50,7 / 4=13 / 4=1.75$ ). ( E ) |  |  |  | $23-27$ <br> SB: 47-11 to 47- $14,47-17$ |
| 4.NS. 6 | Compare two decimals to hundredths by reasoning about their size based on the same whole. Record the results of comparisons with the symbols $>$, $=$, or $<$, and justify the conclusions (e.g., by using a visual model). (E) |  |  |  | $\begin{aligned} & \text { 28 } \\ & \text { SB: 47-15 } \end{aligned}$ |


| 4.NS. 7 | Use place value understanding to round multidigit whole numbers to any given place value. | $22-26$ <br> SB: 7-1, 7-2, 8-1 to 8-3 |  |  |  |
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|  |  | B1 <br> Number Sense, <br>  <br> Subtraction <br> TM, Student Book and Skill Builders <br> (SB) | B2 <br> Multiplication \& Division Facts TM, Student Book and Skill Builders (SB) | B3 <br> Multiplication \& Division Problem Solving TM, Student Book and Skill Builders (SB) | B4 <br> Fractions, Decimals, Geometry \& Measurement TM, Student Book and Skill Builders (SB) |
|  | Computation and Algebraic Thinking |  |  |  |  |
|  | Learning Outcome: Students solve realworld problems using place value strategies and properties of multiplication and division with limitations. Students compose (addition) and decompose (subtraction) non-unit fractions and mixed numbers using models and strategies, applying these concepts to real-world situations. Students investigate the relationship between two given sets of numbers and generate number patterns based upon given rules. |  |  |  |  |
| 4.CA. 1 | 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. Describe the strategy and explain the reasoning. (E) |  | $\begin{aligned} & 56,57 \\ & \text { SB: 21-1, 22-1 } \end{aligned}$ | $\begin{aligned} & 17-22,26-33 \\ & \text { SB: } 20-34,21-3 \\ & \text { to } 21-5,21-8 \text { to } \\ & 21-11,21-13,22- \\ & 2 \text { to } 22-4,23-1, \\ & 23-2 \end{aligned}$ |  |



| 4.CA. 7 | Add and subtract mixed numbers with common denominators (e.g., by replacing each mixed number with an equivalent fraction and/or by using properties of operations and the relationship between addition and subtraction). |  |  |  | $21,22$ <br> SB: 34-1 to 34-3, $34-5,34-6$ |
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| 4.CA. 8 | Solve real-world problems involving addition and subtraction of fractions referring to the same whole and having common denominators (e.g., by using visual fraction models and equations to represent the problem). (E) |  |  |  | $17-22$ <br> SB: 34-1, 34-2, 34- <br> 4 |
| 4.CA. 9 | Describe the relationship between two terms and use it to find a second number when a first number is given. Generate a number pattern that follows a given rule. |  | $\begin{aligned} & 17 \\ & \text { SB: } 20-11 \end{aligned}$ | $\begin{aligned} & 14,15 \\ & \text { SB: } 20-31 \end{aligned}$ | 73 <br> SB: 24-4, 48-8 |
|  |  | B1 <br> Number Sense, <br>  <br> Subtraction. <br> TM, Student Book and Skill Builders (SB) | B2 <br> Multiplication \& Division Facts TM, Student Book and Skill Builders (SB) | B3 <br> Multiplication \& Division Problem Solving TM, Student Book and Skill Builders (SB) | B4 <br> Fractions, Decimals, Geometry \& Measurement TM, Student Book and Skill Builders (SB) |
|  | Geometry |  |  |  |  |
|  | Learning Outcome: Students utilize appropriate tools to identify, describe, and draw parallelograms, rhombuses, and trapezoids in addition to classifying twodimensional shapes. |  |  |  |  |
| 4.G. 1 | Identify, describe, and draw parallelograms, rhombuses, and trapezoids using appropriate tools (e.g., ruler, straightedge, and technology). |  |  |  | $\begin{aligned} & 39,40 \\ & \text { SB: } 37-6 \end{aligned}$ |


| 4.G. 2 | Identify, describe, and draw rays, angles (right, acute, obtuse), and perpendicular and parallel lines using appropriate tools (e.g., ruler, straightedge, and technology). Identify these in two-dimensional figures. |  |  |  | $\begin{aligned} & 30,31,33 \\ & \text { SB: } 35-2 \text { to } 35-5 \text {, } \\ & 36-2,36-3 \end{aligned}$ |
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| 4.G. 3 | Classify triangles and quadrilaterals based on the presence or absence of parallel or perpendicular lines, or right, acute, or obtuse angles. |  |  |  | 37, 39 <br> SB: 37-3, 37-6 |
|  |  | B1 <br> Number Sense, Addition \& Subtraction TM, Student Book and Skill Builders (SB) | B2 <br> Multiplication \& Division Facts TM, Student Book and Skill Builders (SB) | B3 <br> Multiplication \& Division Problem Solving TG, Student Book and Skill Builders (SB) | B4 <br> Fractions, Decimals, Geometry \& Measurement TG, Student Book and Skill Builders (SB) |
|  | Measurement |  |  |  |  |
|  | Learning Outcome: Students solve realworld problems involving distance, intervals of time, volumes, masses of objects, and money by applying computation strategies, precise measurement skills, and relationships between systems of measurement. Students continue to apply the concept of area and perimeter to complex shapes to identify solutions. |  |  |  |  |
| 4.M. 1 | Measure length to the nearest quarter-inch, eighth-inch, and millimeter. (E) |  |  |  | $\begin{aligned} & 56,62 \\ & \text { SB: } 43-2 \text { to } 43-5 \end{aligned}$ |
| 4.M. 2 | Within given measurement systems, convert larger units to smaller units, including $\mathrm{km}, \mathrm{m}$, cm ; kg, g; lb, oz; I, ml; hr, min, sec., and use these conversions to solve real-world problems. (E) |  |  |  | $58-61,63,64$ <br> SB: 44-1, 44-2, 45- <br> 1, 45-2 |


4.DA. 2 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 data displayed in line plots.

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