| 鬲 Math Teachers Press, Inc |  |  |  |  |  |
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| Colorado Academic Standards Correlated to |  |  |  |  |  |
| Moving with Math Foundations Grade 4 |  |  |  |  |  |
|  |  | B1 <br> Number Sense, Addition \& Subtraction Student Book and Skill Builders (SB) | B2 <br> Multiplication \& Division Facts Student Book and Skill Builders (SB) | B3 <br>  <br> Division <br> Problem <br> Solving Student <br> Book and Skill <br> Builders (SB) | B4 <br> Fractions, Decimals, Geometry \& Measurement Student Book and Skill Builders (SB) |
| Number and Quantity |  |  |  |  |  |
| 4.NBT.A. | Number \& Operations in Base Ten: Generalize place value understanding for multi-digit whole numbers. |  |  |  |  |
| 1 | Explain that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. For example, recognize that $700 \div 70=10$ by applying concepts of place value and division. | $\begin{aligned} & \hline 14 \\ & \text { SB: 6-3 } \end{aligned}$ |  |  |  |
| 2 | Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons. | $\begin{aligned} & 15-21 \\ & \text { SB: } 2-3,2-4,4-1 \text { to } \end{aligned}$ $4-3,5-1,5-2$ |  |  |  |
| 3 | Use place value understanding to round multidigit whole numbers to any place. | $\begin{aligned} & \hline 22-26 \\ & \text { SB: } 8-1 \text { to } 8-3,7-1, \\ & 7-2 \end{aligned}$ |  |  |  |


| 4.NT.B. | Number \& Operations in Base Ten: Use place value understanding and properties of operations to perform multi-digit arithmetic |  |  |  |  |
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| 4 | Fluently add and subtract multi-digit whole numbers using the standard algorithm. | $\begin{aligned} & 32-37,44-51,71- \\ & 76 \text { SB: } 10-8 \text { to } 10- \\ & 12,12-1,12-2,13- \\ & 1,15-4 \text { to } 15-12 \\ & 17-1,17-2,18-1 \\ & \hline \end{aligned}$ |  |  |  |
| 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. |  |  | $\begin{aligned} & 17-22,26-34 \\ & \text { SB: } 21-3 \text { to } 21- \\ & 6,21-8 \text { to } 21- \\ & 13,22-2,22-3 \\ & 23-1 \text { to } 23-3 \end{aligned}$ | SB: 20-34 |
| 6 | Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. |  |  | $\begin{aligned} & 61-66,69-73 \\ & \text { SB: } 26-8 \text { to } 26- \\ & 11,26-13,27-1 \\ & \text { to } 27-3,28-1, \\ & 28-2 \end{aligned}$ |  |
| 4.NF.A | Number \& Operations-Fractions: Extend understanding of fraction equivalence and ordering. |  |  |  |  |
| 1 | Explain why a fraction $a / b$ is equivalent to a fraction $n \times a / n \times b$ 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 recognize and generate equivalent fractions. |  |  |  | 14 |


| 2 | Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as $1 / 2$. Recognize that 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. |  |  |  | $\begin{aligned} & 4,15 \\ & \text { SB: } 32-1,32-4 \end{aligned}$ |
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| 4.NF.B. | Number \& Operations-Fractions: Build fractions from unit fractions. |  |  |  |  |
| 3 | Understand a fraction $\mathrm{a} / \mathrm{b}$ with $\mathrm{a}>1$ as a sum of fractions $1 / b$. |  |  |  |  |
| 3a | Understand addition and subtraction of fractions as joining and separating parts referring to the same whole. |  |  |  | 11, 17, 18 <br> SB: 33-1 to 33-5 |
| 3b | Decompose a fraction into a sum of fractions with like denominators in more than one way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model. Examples: 3/8 $\begin{aligned} & =1 / 8+1 / 8+1 / 8 ; 3 / 8=1 / 8+2 / 8 ; 21 / 8= \\ & 1+1+1 / 8=8 / 8+8 / 8+1 / 8 . \end{aligned}$ |  |  |  | SB: 33-8 |
| 3c | Add and subtract mixed numbers with like 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. |  |  |  | $\begin{aligned} & 21,22 \\ & \text { SB: } 34-1 \text { to } 34-3, \\ & 34-5,34-6 \end{aligned}$ |
| 3d | Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem. |  |  |  | $\begin{aligned} & 17,19,22 \\ & \text { SB: } 34-4 \end{aligned}$ |
| 4 | Apply and extend previous understandings of multiplication to multiply a fraction by a whole number. |  |  |  |  |



| 6 | Use decimal notation for fractions with denominators 10 or 100. For example, rewrite 0.62 as 62/100; describe a length as 0.62 meters; locate 0.62 on a number line diagram. |  |  |  | $\begin{aligned} & \text { 23-26 } \\ & \text { SB: } 47-11,47-12, \\ & 47-14 \end{aligned}$ |
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| 7 | Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols $>$, =, or <, and justify the conclusions, e.g., by using a visual model. |  |  |  | $\begin{aligned} & \text { 28 } \\ & \text { SB: } 47-15 \end{aligned}$ |
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|  | Algebra and Functions |  |  |  |  |
| 4.OA.A | Operations \& Algebraic Thinking: Use the four operations with whole numbers to solve problems. |  |  |  |  |
| 1 | Interpret a multiplication equation as a comparison, e.g., interpret $35=5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5 . Represent verbal statements of multiplicative comparisons as multiplication equations. |  |  | SB: 20-39 |  |
| 2 | Multiply or divide 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. |  |  | SB: 26-11 |  |


| $\mathbf{3}$ | Solve multi-step word problems posed with <br> whole numbers and having whole-number <br> answers using the four operations, including <br> problems in which remainders must be <br> interpreted. Represent these problems using <br> equations with a letter standing for the <br> unknown quantity. Assess the reasonableness <br> of answers using mental computation and <br> estimation strategies including rounding. |  |  |  |  |
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|  | Data, Statistics, and Probability |  |  |  |  |
| 4.MD.A. | Measurement \& Data: Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. |  |  |  |  |
| 1 | Know relative sizes of measurement units within one system of units including $\mathrm{km}, \mathrm{m}$, $\mathrm{cm} ; \mathrm{kg}, \mathrm{g} ; \mathrm{lb} . \mathrm{oz}$; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. 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), ... |  |  |  | $\begin{aligned} & 57,58,62,63 \\ & \text { SB: } 44-1,44-2, \\ & 45-1,45-2 \end{aligned}$ |
| 2 | Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale. |  |  |  | $\begin{aligned} & \text { 59, 61, } 64 \\ & \text { SB: 41-2 } \end{aligned}$ |



| 7 | Recognize angle measure as additive When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems, e.g., by using an equation with a symbol for the unknown angle measure. |  |  |  | SB: 35-7, 35-9 |
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|  | Geometry |  |  |  |  |
| 4.G.A. | Geometry: Draw and identify lines and angles, and classify shapes by properties of their lines and angles. |  |  |  |  |
| 1 | Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures. |  |  |  | $\begin{aligned} & 29-31,33 \\ & \text { SB: } 35-1,35-2, \\ & 32-5,36-2,36-3 \end{aligned}$ |
| 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. Recognize right triangles as a category, and identify right triangles. |  |  |  | $\begin{aligned} & 37,39 \\ & \text { SB: } 37-3,37-6 \end{aligned}$ |
| 3 | Recognize a line of symmetry for a twodimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify linesymmetric figures and draw lines of symmetry. |  |  |  |  |

