## INReady $4^{\text {ti }}$ Grade Matihematics Blueprint

Sadlier Progress Mathematics and Progress Monitor Benchmark Assessments
Correlated to the TNReady $4^{\text {th }}$ Grade Math Blueprint (Revised $10 / / / 15$ ) $^{\text {( }}$

| Cluster | Standards |  | \# of Items | \% of Test | Sadlier Progress Mathematics Grade 4 |  | Sadlier Progress Monitor Benchmark Assessments: Mathematics** |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | \# of Items |  |  |  | \% of Test |
| 4.OA.A* Use the four operations with whole numbers to solve problems. |  |  |  | 3-6 | 7-13\% |  |  | 8 | 11\% |
|  | 4.OA.A. 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. |  |  | Lesson 1 | Interpret Multiplication Equations as Comparisons—pp. 10-17 | 2 |  |
|  | 4.OA.A. 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. |  |  | Lesson 2 | Problem Solving: Use Multiplication and Division to Make Comparisonspp. 18-25 | 3 |  |
|  | 4.OA.A. 3 | Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. |  |  | Lesson 3 | Problem Solving: Multistep Problemspp. 26-33 | 3 |  |

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|  | 4.NBT.B.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. |  |  |  | Lesson 11 | Multiply Whole Numbers: Use Properties of Operations—pp. 96-103 | 3 |  |
|  |  |  |  |  | Lesson 12 | Divide Whole Numbers: Use Place Value-pp. 104-111 |  |  |
|  |  |  |  |  | Lesson 13 | Divide Whole Numbers: Use Properties of Operations-pp. 112-119 |  |  |
| 4.NF.A* Extend understanding of fraction equivalence and ordering. |  |  | 5-8 | 8-17\% |  |  | 4 | 6\% |  |
|  | 4.NF.A. 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. |  |  | Lesson 14 | Understand Equivalent Fractions-pp. 126-133 | 2 |  |  |
|  |  |  |  |  | Lesson 15 | Write Equivalent Fractions-pp. 134141 |  |  |  |
|  | 4.NF.A. 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. |  |  | Lesson 16 | Compare Two Fractions-pp. 142-149 | 2 |  |  |

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|  | 4.NF.B. 4 | Apply and extend previous understandings of multiplication to multiply a fraction by a whole number. |  |  |  |  |  | 10 |  |
|  |  | a. Understand a fraction $a / b$ as a multiple of $1 / b$. | Lesson 21 |  |  | Multiply Unit Fractions by Whole Numbers—pp. 182-189 |  |  |
|  |  | b. Understand a multiple of $a / b$ as a multiple of $1 / b$, and use this understanding to multiply a fraction by a whole number. | Lesson 22 |  |  | Multiply Fractions by Whole Numbers—pp. 190-197 |  |  |
|  |  | c. Solve word problems involving multiplication of a fraction by a whole number, e.g., by using visual fraction models and equations to represent the problem. | Lesson 23 |  |  | Problem Solving: Multiply Fractions by Whole Numbers—pp. 198-205 |  |  |
| 4.NF.C* Understand decimal notation for fractions, and compare decimal fractions. |  |  | 4-8 | 7-17\% |  |  | 6 | 9\% |  |
|  | 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 and 100 . <br> (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.) |  |  | Lesson 24 | Add Fractions: Denominators of 10 and 100-pp. 206-213 | 2 |  |  |

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|  | 4.NF.C. 6 | Use decimal notation for fractions with denominators 10 or 100. |  |  |  | Lesson 25 | Write and Compare Decimal Fractions-pp. 214-221 | 2 |  |
|  | 4.NF.C. 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. |  |  | Lesson 25 | Write and Compare Decimal Fractions-pp. 214-221 | 2 |  |
| 4.OA.B Gain familiarity with factors and multiples. |  |  | 2-4 | 3-10\% |  |  | 2 | $3 \%$ |
|  | 4.OA.B. 4 | Find all factor pairs for a whole number in the range 1-100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range $1-100$ is a multiple of a given one-digit number. Determine whether a given whole number in the range 1-100 is prime or composite. |  |  | Lesson 4 | Find Factors and Multiples for Whole Numbers-pp. 34-41 | 2 |  |
| 4.OA.C Generate and analyze patterns. |  |  | 1-3 | 2-8\% |  |  | 3 | 4\% |
|  | 4.OA.C. 5 | Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. |  |  | Lesson 5 | Generate and Analyze Number and Shape Patterns-pp. 42-49 | 3 |  |

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| 4.MD.A Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. |  |  |  | 4-6 | 7-13\% |  |  | 12 | 17\% |
|  | 4.MD.A. 1 | Know relative sizes of measurement units within one system of units including km, $m$, |  |  | Lesson 26 | Convert Customary Measurement Units—pp. 234-241 | 3 |  |
|  |  | $\mathrm{cm} ; \mathrm{kg}, \mathrm{g} ; \mathrm{lb}, \mathrm{Oz} . ; \mathrm{l}, \mathrm{ml}$; 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. |  |  | Lesson 27 | Convert Metric Measurement Unitspp. 242-249 |  |  |
|  | 4.MD.A. 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. |  |  | Lesson 28 | Problem Solving: Measurement—pp. 250-257 | 4 |  |
|  | 4.MD.A. 3 | Apply the area and perimeter formulas for rectangles in real world and mathematical problems. |  |  | Lesson 29 | Problem Solving: Apply Area and Perimeter Formulas—pp. 258-265 | 5 |  |

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|  | 4.MD.C. 6 | Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure. |  |  |  | Lesson 32 | Use a Protractor to Measure Anglespp. 282-289 | 3 |  |
|  | 4.MD.C. 7 | Recognize angle measure as additive. When an angle is decomposed into nonoverlapping 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. |  |  | Lesson 33 | Problem Solving: Find Unknown Angle Measures—pp. 290-297 | 3 |  |
| 4.G.A Draw and identify lines and angles, and classify shapes by properties of their lines and angles. |  |  | 2-4 | 3-10\% |  |  | 9 | 13\% |
|  | 4.G.A. 1 | Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in twodimensional figures. |  |  | Lesson 34 | Draw and Identify Points, Lines, and Angles-pp. 304-311 | 3 |  |
|  | 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. Recognize right triangles as a category, and identify right triangles. |  |  | Lesson 35 | Classify Two-Dimensional Figures-pp. 312-319 | 3 |  |

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|  | 4.G.A. 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. |  |  |  | Lesson 36 | Identify Lines of Symmetry—pp. 320327 | 3 |  |


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