Sadlier Progress Mathematics and Progress Monitor Benchmark Assessments

Correlated to the TNReady 4th Grade Math Blueprint (Revised 10/1/15)

Cluster		Standards	# of Items	% of Test		Sadlier Progress Mathematics Grade 4		Sadlier Progress Monitor Benchmark Assessments: Mathematics**	
							# of Items	% of Test	
4.OA.A* problem		r operations with whole numbers to solve	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 Comparisons— pp. 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 Problems—pp. 26–33	3		

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4.NBT.A* numbers		place value understanding for multi-digit whole	5–8	8–17%			7	10%
	4.NBT.A.1	Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.			Lesson 6	Understand Place Value of Whole Numbers—pp. 56–63	2	
	4.NBT.A.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.			Lesson 7	Read, Write, and Compare Whole Numbers—pp. 64–71	2	
	4.NBT.A.3	Use place value understanding to round multi-digit whole numbers to any place.			Lesson 8	Apply Place Value to Round Whole Numbers—pp. 72–79	3	
		ralue understanding and properties of operations t arithmetic.	6–9	10–18%			8	11%
	4.NBT.B.4	Fluently add and subtract multi-digit whole numbers using the standard algorithm.			Lesson 9	Add and Subtract Fluently with Whole Numbers—pp. 80–87	2	
	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.			Lesson 10	Multiply Whole Numbers: Use Place Value—pp. 88–95	3	

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	4.NBT.B.6	Find whole–number quotients and remainders with up to four–digit dividends and one–digit			Lesson 11	Multiply Whole Numbers: Use Properties of Operations—pp. 96–103	3	
		divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and			Lesson 12	Divide Whole Numbers: Use Place Value—pp. 104–111		
		division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.			Lesson 13	Divide Whole Numbers: Use Properties of Operations—pp. 112–119		
4.NF.A*	Extend unde	erstanding 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			Lesson 14	Understand Equivalent Fractions—pp. 126–133	2	
		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 15	Write Equivalent Fractions—pp. 134–141		
	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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	.NF.B* Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.		5–8	8–17%			21	30%
	4.NF.B.3	Understand a fraction a/b with $a > 1$ as a sum of fraction $1/b$.					11	
		 understand addition and subtraction of fractions as joining and separating parts referring to the same whole. 			Lesson 17	Add and Subtract Fractions with Like Denominators—pp. 150–157		
		b. Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model.			Lesson 18	Decompose a Fraction as a Sum of Fractions—pp. 158–165		
		c. 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.			Lesson 19	Add and Subtract Mixed Numbers with Like Denominators—pp. 166–173		
		d. 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.			Lesson 20	Problem Solving: Add and Subtract Fractions—pp. 174–181		

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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		
	Understand I fractions.	decimal notation for fractions, and compare	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. (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 familiar	ity 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	
4.0A.C	Generate ar	Generate and analyze patterns.		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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		ms involving measurement and conversion of 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	
	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. Record measurement equivalents in a two column table.			Lesson 27	Convert Metric Measurement Units— pp. 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.B	MD.B Represent and interpret data.		1–3	2–8%			3	4%
	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.			Lesson 30	Problem Solving: Use Line Plots—pp. 266–273	3	
	1.MD.C Geometric measurement: understand concepts of angle and measure angles.		1–3	2–8%			12	17%
	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:					6	
		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			Lesson 31	Understand Angle Measures—pp. 274–281		
		b. An angle that turns through <i>n</i> one–degree angles is said to have an angle measure of <i>n</i> degrees.			Lesson 31	Understand Angle Measures—pp. 274–281		

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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 Angles—pp. 282–289	3	
	4.MD.C.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.			Lesson 33	Problem Solving: Find Unknown Angle Measures—pp. 290–297	3	
		ntify lines and angles, and classify shapes by es 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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	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.			Lesson 36	Identify Lines of Symmetry—pp. 320–327	3	