4th Grade

Math Common Core
"I Can" Checklists



Operations and Algebraic Thinking

Use	Jse the four operations with whole numbers to solve problems		
1.		I can interpret a multiplication equation as a comparison.	
		Can interpret a multiplication comparison as an equation.	
2.		I can multiply to solve word problems involving multiplication comparisons.	
		I can divide to solve word problems involving multiplication comparisons.	
		I can use drawings and equations to represent problems.	
3.		I can solve multistep word problems using the four operations (whole numbers only).	
		I can solve division problems in which the remainder must be interpreted.	

		Lean represent problems using equations with a letter standing for the unknown number.
		I can check if my answer is reasonable using mental math and estimation.
Gaiı	n familia	rity with factors and multiples.
4.		L can find all the factor pairs for a whole number in the range 1-100.
		Lean recognize that a whole number is a multiple of each of its factors.
		L can determine whether a given whole number in the range 1-100 is a multiple of a given one-digit number.
		I can determine whether a given whole number in the range 1-100 is prime or composite.
Gen	erate ar	nd analyze patterns.
5.		Can create a number or shape pattern that follows a given rule.
		I can identify features of a pattern that were not obvious in the rule itself.

Number and Operations in Base Ten

	neralize _l nbers.	place value understanding for multi-digit whole
1.		I can 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.
2.		I can read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form.
		I can compare two multi-digit numbers based on meanings of the digits in each place, using >, =, and < symbols to record the results of the comparisons.
3.		I can use place value understanding to round multi-digit whole numbers to any place.
	-	alue understanding and properties of operations to lti-digit arithmetic.
4.		I can fluently add and subtract multi-digit whole numbers.

5.	I can multiply a whole number of up to four digits by a one-digit whole number.
	I can multiply two two-digit numbers.
	I can illustrate and explain my calculations by using equations, rectangular arrays, and area models.
6.	I can find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors.
	I can illustrate and explain my calculations by using equations, rectangular arrays, and area models.

Number and Operations—Fractions

Ext	Extend understanding of fraction equivalence and ordering.		
1.		I can explain why a fraction is equivalent to another fraction by using visual fraction models.	
		I can recognize and create equivalent fractions.	
2.		I can compare two fractions with different numerators and different denominators.	
		I can create common denominators and numerators.	
		I can compare fractions to a benchmark fraction.	
		I can recognize that comparisons are only valid when the two fractions refer to the same whole.	
		I can record the results of comparisons with symbols >, =, or <, and justify my conclusions.	

	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.		
3.		I can understand a fraction $\frac{3}{4}$ with $\frac{3}{1}$ as a sum of fractions $\frac{1}{4}$ (these numbers are used as an example).	
a.		I can understand addition and subtraction of fractions as joining and separating parts referring to the same whole.	
b.		I can decompose a fraction into a sum of fractions with the same denominator in more than one way.	
		I can record each decomposition by an equation.	
		I can justify my decompositions.	
C.		I can add and subtract mixed numbers with like denominators.	
d.		I can solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators.	
		I can use visual fraction models and equations to represent a problem.	

4.		I can apply and extend my previous understandings of multiplication to multiply a fraction by a whole number.
a.		Lean understand a fraction 3/4 as a multiple of 1/4 (these numbers are used as an example).
b.		I can understand a multiple of ¾ as a multiple of ¼, and use this understanding to multiply a fraction by a whole number (these numbers are used as an example).
C.		I can solve word problems involving multiplication of a fraction by a whole number.
		I can use visual fraction models and equations to represent a problem.
	derstand cimal frac	decimal notation for fractions, and compare ctions.
5.		I can express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with denominators 10 and 100.
6.		I can use decimal notation for fractions with denominators 10 or 100.

7.	I can compare two decimals to the hundredths place by reasoning about their size.
	I can recognize that comparisons are valid only when the two decimals refer to the same whole.
	I can record the results of comparisons with the symbols >, =, or <, and justify my conclusions.

Measurement and Data

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. 1. **I can** identify relative sizes of measurement units within one system of units. **I can** convert measurements in a larger unit to a smaller unit within the same system of measurement. I can record measurement equivalents in a two-column table. 2. **I can** use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money. **I can** solve problems that include simple fractions or decimals, and problems that require converting larger units into smaller units. **can** represent measurement quantities using

diagrams, such as number line diagrams that feature a

measurement scale.

3.		I can apply the area and perimeter formulas for
		rectangles in real world and mathematical problems.
Rep	resent a	and interpret data.
4.		I can make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8, etc.).
		I can solve problems involving addition and subtraction of fractions by using information presented in line plots.
	ometric r asure an	neasurement: understand concepts of angles and gles.
5.		I can recognize angles as geometric shapes that are formed whenever two rays share a common endpoint.
		Lean understand concepts of angle measurement.
a.		I can understand that a "one-degree angle" can be used to measure angles.
b.		I can understand that an angle that turns through <i>n</i> one-degree angles is said to have an angle measure of <i>n</i> degrees.

6.	I can measure angles in whole-number degrees using a protractor.
	I can sketch angles of a specified measure.
7.	I can recognize angle measure as additive.
	I can solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems.

Geometry

Draw and identify lines and angles, and classify shapes by properties of their lines and angles. 1. I can draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. **I can** identify the above lines and angles in twodimensional figures. 2. **I can** classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines. I can classify two-dimensional figures based on the presence or absence of angles of a specified size. **I can** recognize right triangles as a category, and identify right triangles. 3. **I can** recognize a line of symmetry for a twodimensional figure. **I can** identify line-symmetric figures.

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I can draw lines of symmetry.

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