## Fourth Grade Major, Supporting and Additional Standards by Cluster

	Use the	e four operations with whole numbers to solve problems.				
@4.OA.1	DOK 1,2	Interpret a multiplication equation as a comparison, e.g.,	Major			
		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.				
@4.OA.2	DOK 1,2	Multiply or divide to solve word problems involving	Major			
		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				
@4.OA.3	DOK 1,2,3	Solve multistep word problems posed with whole numbers	Major			
		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.				
		Gain familiarity with factors and multiples.				
<b>@4.OA.4</b>	DOK 1	Find all factor pairs for a whole number in the range 1–100.	Supporting			
		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.				
4.04.5	DOK 1.3	Generate and analyze problems.	١ ا			
4.OA.5	DOK 1,2	Generate a number or shape pattern that follows a given rule.	Additional			
		Identify apparent features of the pattern that were not explicit in the rule itself.				
	Canarali	ze place value understanding for multi-digit whole numbers				
OA NOT 4	DOK 1	Recognize that in a multi-digit whole number, a digit in one	Major			
@4.NBT.1	DOKI	place represents ten times what it represents in the place to its	iviajoi			
		right.				
@4.NBT.2	DOK 1	Read and write multi-digit whole numbers using base-ten	Major			
<b>©4.NB1.2</b>	DOK 1	numerals, number names, and expanded form. Compare two	iviajoi			
		multi-digit numbers based on meanings of the digits in each				
		place, using >, =, and < symbols to record the results of				
		comparisons.				
@4.NBT.3	DOK 1	Use place value understanding to round multi-digit whole	Major			
Q-1.14D1.3	*assessed	numbers to any place.	ajoi			
	at a 3 on					
	Perf. Task					
Use place	Use place value understanding and properties of operations to perform multi-digit arithmetic.					
@4.NBT.4	DOK 1	Fluently add and subtract multi-digit whole numbers using the	Major			
		standard algorithm.				
@4.NBT.5	DOK 1,2	Multiply a whole number of up to four digits by a one-digit	Major			

		whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations					
<b>®4.NBT.6</b>	DOK 1,2	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.	Major				
	Exter	nd understandings of fraction equivalence and ordering.					
<b>®4.NF.1</b>	DOK 1,2,3	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.	Major				
®4.NF.2	DOK 1,2,3	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.	Major				
Build fractio	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.						
@4.NF.3	DOK 1,2,3	Understand a fraction $a/b$ with $a > 1$ as a sum of fractions $1/b$ .	Major				
@4.NF.4	DOK 1,2	Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.	Major				
	Understand	decimal notation for fractions and compare decimal fractions.					
®4.NF.5	DOK 1	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.	Major				
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®4.NF.6 ®4.NF.7	DOK 1  DOK 1,2,3	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.  Use decimal notation for fractions with denominators 10 or 100.  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 conclusion	Major Major				
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4.MD.3	DOK 1,2	Apply the area and perimeter formulas for rectangles in real world and mathematical problems.	Supporting		
Represent and interpret data					
4.MD.4	DOK 1,2	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 information presented in line plots.	Supporting		
G	eometric mea	surement: understand concept of angle and angle measurement	s.		
4.MD.5	DOK 1	Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand concepts of angle measurement.	Additional		
4.MD.6	DOK 1	Measure angles in whole-number degrees using a protractor.  Sketch angles of specified measure.	Additional		
4.MD.7	DOK 1,2	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	Additional		
Draw and i	dentify lines a	nd angles, and classify shapes based on properties of their lines a	and angles.		
4.G.1	DOK 1	Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.	Additional		
4.G.2	DOK 1,2	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.	Additional		
4.G.3	DOK 1	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.	Additional		

Total Priority Standards: 18