

IntelliSeeds Common Core Standards Alignment

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Gı	rade Con	main or aceptual heme	Standard #	Standard	Intelliseeds Skill Numbers	Additional Skills From Other Grades That Apply To This Standard	
				CC.5.OA.1 Write and interpret numerical expressions. Use			
				parentheses, brackets, or braces in numerical expressions,			
_			_	and evaluate expressions with these symbols.			
5	OA		1	CC.5.OA.2 Write and interpret numerical expressions. Write			
				simple expressions that record calculations with numbers,			
				and interpret numerical expressions without evaluating			
				them. For example, express the calculation "add 8 and 7,			
				then multiply by 2" as $2 \times (8 + 7)$. Recognize that $3 \times (18932)$			
				+ 921) is three times as large as 18932 + 921, without			
				having to calculate the indicated sum or product.			
5	OA		2				
				CC.5.OA.3 Analyze patterns and relationships. Generate			
				two numerical patterns using two given rules. Identify			
				apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the			
				two patterns, and graph the ordered pairs on a coordinate			
				plane. For example, given the rule "Add 3" and the starting			
				number 0, and given the rule "Add 6" and the starting			
				number 0, generate terms in the resulting sequences, and			
				observe that the terms in one sequence are twice the			
				corresponding terms in the other sequence. Explain			
5	OA		3	informally why this is so.			
				CC.5.NBT.1 Understand the place value system. Recognize			
				that in a multi-digit number, a digit in one place represents			
				10 times as much as it represents in the place to its right			
5	NBT		1	and 1/10 of what it represents in the place to its left.			
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		1	CC.5.NBT.2 Understand the place value system. Explain	1.05, 1.06	
			patterns in the number of zeros of the product when	1.03, 1.00	
			i.		
			multiplying a number by powers of 10, and explain patterns		
			in the placement of the decimal point when a decimal is		
			multiplied or divided by a power of 10. Use whole number		
1_			exponents to denote powers of 10.		
5	NBT	2			
1_	l		CC.5.NBT.3 Understand the place value system. Read,		Grade 4 L.02, L.03, L.04, L.05,
5	NBT	3	write, and compare decimals to thousandths.		L.06, L.07, L.09, L.10
			CC.5.NBT.3a Read and write decimals to thousandths using		
			base-ten numerals, number names, and expanded form,		
			e.g., $347.392 = 3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times$		
5	NBT	3a	$(1/100) + 2 \times (1/1000)$.		
			CC.5.NBT.3b Compare two decimals to thousandths based		
			on meanings of the digits in each place, using >, =, and <		
5	NBT	3b	symbols to record the results of comparisons.		
			CC.5.NBT.4 Understand the place value system. Use place	L.08, I.21.01, I.21.02, I.22	
			value understanding to round decimals to any place.		
5	NBT	4			
			CC.5.NBT.5 Perform operations with multi-digit whole		
			numbers and with decimals to hundredths. Fluently multiply		
			multi-digit whole numbers using the standard algorithm.		
5	NBT	5			
			CC.5.NBT.6 Perform operations with multi-digit whole		Grade 4 H.15, H.16
			numbers and with decimals to hundredths. Find whole-		
			number quotients of whole numbers with up to four-digit		
			dividends and two-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		
5	NBT	6	arrays, and/or area models.		
			CC.5.NBT.7 Perform operations with multi-digit whole	1.03, 1.04.01, 1.07.01, 1.08.01,	Grade 4 L.11, L.12, L.13, L.14,
			numbers and with decimals to hundredths. Add, subtract,	I.09.01, I.10.01, I.10.02, I.11.02,	L.15, L.16, L.23
			multiply, and divide decimals to hundredths, using concrete	I.12, I.13.01, I.13.02, I.13.03, I.14,	
			models or drawings and strategies based on place value,	I.15, I.16, I.17, I.18, I.19, I.23	
			properties of operations, and/or the relationship between	, , , , , , , , , , , , , , , , , , , ,	
			addition and subtraction; relate the strategy to a written		
			method and explain the reasoning used.		
5	NBT	7	incured and explain the reasoning used.		
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5	NF	4	to multiply a fraction or whole number by a fraction.		
			multiplication and division to multiply and divide fractions. Apply and extend previous understandings of multiplication		
5	NF	3	CC.5.NF.4 Apply and extend previous understandings of		
			CC.5.NF.3 Apply and extend previous understandings of multiplication and division to multiply and divide fractions. Interpret a fraction as division of the numerator by the denominator (a/b = a \div b). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, e.g., by using visual fraction models or equations to represent the problem. For example, interpret 3/4 as the result of dividing 3 by 4, noting that 3/4 multiplied by 4 equals 3 and that when 3 wholes are shared equally among 4 people each person has a share of size 3/4. If 9 people want to share a 50-pound sack of rice equally by weight, how many pounds of rice should each person get? Between what two whole numbers does your answer lie?		
	NF	2	23/12. (In general, a/b + c/d = (ad + bc)/bd.) CC.5.NF.2 Use equivalent fractions as a strategy to add and subtract fractions. Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers. For example, recognize an incorrect result 2/5 + 1/2 = 3/7 by observing that 3/7 < 1/2.		
			subtract fractions. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. For example, 2/3 + 5/4 = 8/12 + 15/12 =	H.10, H.11, H.12, H.14.01, H.14.02, H.14.03	Grade 4 K.27, K.28, K.29

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			CC.5.NF.4a Interpret the product (a/b) × q as a parts of a	
			partition of q into b equal parts; equivalently, as the result of	
			a sequence of operations a × q ÷ b. For example, use a	
			visual fraction model to show (2/3) × 4 = 8/3, and create a	
			story context for this equation. Do the same with (2/3) ×	
			$(4/5) = 8/15$. (In general, $(a/b) \times (c/d) = ac/bd$.)	
5	NF	4a	(1770) - 0/10. (111 general, (a/b) ^ (0/u) - a0/bu.)	
		ти	CC.5.NF.4b Find the area of a rectangle with fractional side	
			lengths by tiling it with unit squares of the appropriate unit	
			fraction side lengths, and show that the area is the same as	
			would be found by multiplying the side lengths. Multiply	
			fractional side lengths to find areas of rectangles, and	
			represent fraction products as rectangular areas.	
5	NF	4b		
		<u> </u>	CC.5.NF.5 Apply and extend previous understandings of	
			multiplication and division to multiply and divide fractions.	
			Interpret multiplication as scaling (resizing) by:	
			a. Comparing the size of a product to the size of one	
			factor on the basis of the size of the other factor, without	
			•	
			performing the indicated multiplication.	
			h Evoloining why multiplying a sixon pro-t	
			b. Explaining why multiplying a given number by a	
			fraction greater than 1 results in a product greater than the	
			given number (recognizing multiplication by whole numbers	
			greater than 1 as a familiar case); explaining why multiplying	
			a given number by a fraction less than 1 results in a product	
			smaller than the given number; and relating the principle of	
			fraction equivalence $a/b = (n \times a) / (n \times b)$ to the effect of	
			multiplying a/b by 1.	
5	NF	5		
			CC.5.NF.6 Apply and extend previous understandings of	
			multiplication and division to multiply and divide fractions.	
			Solve real world problems involving multiplication of	
			, , , , , , , , , , , , , , , , , , , ,	
			fractions and mixed numbers, e.g., by using visual fraction	
_	l		models or equations to represent the problem.	
5	NF	6		

	1		IOO F NE 7 Apply and extend providence and extend to the section		
			CC.5.NF.7 Apply and extend previous understandings of		
			multiplication and division to multiply and divide fractions.		
			Apply and extend previous understandings of division to		
			divide unit fractions by whole numbers and whole numbers		
			by unit fractions. (Students able to multiply fractions in		
			general can develop strategies to divide fractions in general,		
			by reasoning about the relationship between multiplication		
			and division. But division of a fraction by a fraction is not a		
			requirement at this grade.)		
5	NF	7	requirement at this grade.)		
5	INI	,	CC.5.NF.7a Interpret division of a unit fraction by a non-zero	H.21	
			whole number, and compute such quotients. For example,	11.21	
			create a story context for (1/3) ÷ 4 and use a visual fraction		
			model to show the quotient. Use the relationship between		
 _	l		multiplication and division to explain that $(1/3) \div 4 = 1/12$		
5	NF	7a	because (1/12) × 4 = 1/3.		
			CC.5.NF.7b Interpret division of a whole number by a unit		
			fraction, and compute such quotients. For example, create a		
			story context for 4 ÷ (1/5) and use a visual fraction model to		
			show the quotient. Use the relationship between		
			multiplication and division to explain that $4 \div (1/5) = 20$		
5	NF	7b	because $20 \times (1/5) = 4$.		
			CC.5.NF.7c Solve real-world problems involving division of		
			unit fractions by non-zero whole numbers and division of		
			whole numbers by unit fractions, e.g., by using visual		
			fraction models and equations to represent the problem. For		
			example, how much chocolate will each person get if 3		
			people share 1/2 lb of chocolate equally? How many 1/3-cup		
			servings are in 2 cups of raisins?		
5	NF	7c	ge and m = days an amenda		
			CC.5.MD.1 Convert like measurement units within a given	J.02, J.03, J.04, J.05, J.06, J.07,	
			measurement system. Convert among different-sized	P.01, P.02, P.03, P.04, U.02, U.03,	
			standard measurement units within a given measurement	U.04, U.05	
			system (e.g., convert 5 cm to 0.05 m), and use these	,	
			conversions in solving multi-step real world problems.		
5	MD	1	Toom of the second second problems.		
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			CC.5.MD.2 Represent and interpret data. Make a line plot to		
			display a data set of measurements in fractions of a unit		
			(1/2, 1/4, 1/8). Use operations on fractions for this grade to		
			solve problems involving information presented in line plots.		
			For example, given different measurements of liquid in		
			identical beakers, find the amount of liquid each beaker		
			would contain if the total amount in all the beakers were		
_	MD	2			
5	טואו		redistributed equally.	D OF	
			CC.5.MD.3 Geometric measurement: understand concepts	R.05	
			of volume and relate volume to multiplication and to		
			addition. Recognize volume as an attribute of solid figures		
			and understand concepts of volume measurement.		
			a. A cube with side length 1 unit, called a "unit cube," is		
			said to have "one cubic unit" of volume, and can be used to		
			measure volume.		
			b. A solid figure which can be packed without gaps or		
			overlaps using n unit cubes is said to have a volume of n		
			cubic units.		
5	MD	3			
			CC.5.MD.4 Geometric measurement: understand concepts		Grade 3 O.17
			of volume and relate volume to multiplication and to		
			addition. Measure volumes by counting unit cubes, using		
			cubic cm, cubic in, cubic ft, and improvised units.		
5	MD	4	Sazio sin, sazio in, sazio it, ana improvissa anto.		
		-	CC.5.MD.5 Geometric measurement: understand concepts		
			of volume and relate volume to multiplication and to		
			addition. Relate volume to the operations of multiplication		
			and addition and solve real world and mathematical		
			problems involving volume.		
5	MD	5	problems involving volume.		
	טואון	9	CC.5.MD.5a Find the volume of a right rectangular prism		
			_ ·		
			with whole-number side lengths by packing it with unit		
			cubes, and show that the volume is the same as would be		
			found by multiplying the edge lengths, equivalently by		
			multiplying the height by the area of the base. Represent		
			three-fold whole-number products as volumes, e.g., to		
	1		represent the associative property of multiplication.		
	MD	5a			

			CC.5.MD.5b Apply the formulas $V = (I)(w)(h)$ and $V = (b)(h)$	
			for rectangular prisms to find volumes of right rectangular	
			prisms with whole-number edge lengths in the context of	
			solving real world and mathematical problems.	
5	MD	5b		
			CC.5.MD.5c Recognize volume as additive. Find volumes of	
			solid figures composed of two non-overlapping right	
			rectangular prisms by adding the volumes of the non-	
			overlapping parts, applying this technique to solve real world	
5	MD	5c	problems.	
5	טואו	50		
			CC.5.G.1 Graph points on the coordinate plane to solve real-	
			world and mathematical problems. Use a pair of	
			perpendicular number lines, called axes, to define a	
			coordinate system, with the intersection of the lines (the	
			origin) arranged to coincide with the 0 on each line and a	
			given point in the plane located by using an ordered pair of	
			numbers, called its coordinates. Understand that the first	
			number indicates how far to travel from the origin in the	
			direction of one axis, and the second number indicates how	
			far to travel in the direction of the second axis, with the	
			convention that the names of the two axes and the	
			coordinates correspond (e.g., x-axis and x-coordinate, y-	
			axis and y-coordinate).	
			axis and y-coordinate).	
5	G	1		
			CC.5.G.2 Graph points on the coordinate plane to solve real-	
			world and mathematical problems. Represent real world and	
			mathematical problems by graphing points in the first	
			quadrant of the coordinate plane, and interpret coordinate	
			values of points in the context of the situation.	
5	G	2	values of points in the context of the situation.	
<u> </u>	 	_	CC.5.G.3 Classify two-dimensional figures into categories	
			based on their properties. Understand that attributes	
			belonging to a category of two-dimensional figures also	
			belong to all subcategories of that category. For example, all	
			rectangles have four right angles and squares are	
	<u> </u>		rectangles, so all squares have four right angles.	
5	G	3		

			CC.5.G.4 Classify two-dimensional figures into categories	
			based on their properties. Classify two-dimensional figures	
5	G	4	in a hierarchy based on properties.	