

IntelliSeeds Common Core Standards Alignment

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Grade	Domain or Conceptual Theme	Standard #	Standard	Intelliseeds Skill Numbers	Additional Skills From Other Grades That Apply To This Standard	
3	OA	1	CC.3.OA.1 Represent and solve problems involving multiplication and division. Interpret products of whole numbers, e.g., interpret 5 × 7 as the total number of objects in 5 groups of 7 objects each. For example, describe a context in which a total number of objects can be expressed as 5 × 7.	F.01, F.02, F.03, F.04, F.06, F.07, F.08, F.09, F.10, F.11, F.12, F.13, F.14, F.15, F.16, F.17, F.18, F.19, F.20, F.29, F.31, G.01,G.02, G.03, G.04, G.05, G.06, G.07, G.08, G.09, G.10, G.11, G.12, G.13, G.14, G.15, G.16, G.17, G.18, G.19, G.20, G.21, G.22, G.23, G.24, G.25, G.26, J.01,	Grade 4 F.06.01, F.06.02, F.07.02, F.07.03, F.12.01, F.12.02, F.13.02, F.16	
3	OA	2	CC.3.OA.2 Represent and solve problems involving multiplication and division. Interpret whole-number quotients of whole numbers, e.g., interpret 56 ÷ 8 as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each. For example, describe a context in which a number of shares or a number of groups can be expressed as 56 ÷ 8.	H.01, H.02, H.05, H.06, H.07, H.08, H.09, H.10, H.13, H.14, H.15, H.16, H.17, H.18, H.19, H.20, H.21, H.22,	Grade 4 H.05, H.07 Grade 5 E.03.01, E.04, E.05, E.06, E.07, E.11	
3	OA	3	CC.3.OA.3 Represent and solve problems involving multiplication and division. Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	F.05, F.21, F.22, F.25, F.26, F.27, F.30, F.42, H.12, H.28, H.29, H.34, H.35, H.37, H.39	Grade 4 F.02, J.01	

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			CC.3.OA.4 Represent and solve problems involving		Grade 4 F.01.01, F.01.02, F.04,
			multiplication and division. Determine the unknown whole	H.44, J.06, J.07	F.17, F.18, F.19
			number in a multiplication or division equation relating three		Grade 5 E.09, E.10,
			whole numbers. For example, determine the unknown		E.13, E.17, E.18, I.02
			number that makes the equation true in each of the		
3	OA	4	equations $8 \times ? = 48, 5 = \div 3, 6 \times 6 = ?$		
			CC.3.OA.5 Understand properties of multiplication and the	F.28, F.32, F.33, F.39.01, F.39.02,	Grade 4 G.01, G.02, G.03,
			relationship between multiplication and division. Apply	F.40	G.07, G.08, G.09
			properties of operations as strategies to multiply and divide.		Grade 5 D.02,
			Examples: If $6 \times 4 = 24$ is known, then $4 \times 6 = 24$ is also		D.07.03, D.08.01, D.08.02,
			known. (Commutative property of multiplication.) 3 × 5 × 2		E.01.02, E.02, F.01, F.02, F.03,
			can be found by $3 \times 5 = 15$ then $15 \times 2 = 30$, or by $5 \times 2 =$		F.04, F.05, F.06, F.07, F.08,
			10 then 3 × 10 = 30. (Associative property of multiplication.)		F.09, F.10, F.11, F.12,
			Knowing that $8 \times 5 = 40$ and $8 \times 2 = 16$, one can find 8×7		1 .09, 1 .10, 1 .11, 1 .12,
			as $8 \times (5 + 2) = (8 \times 5) + (8 \times 2) = 40 + 16 = 56$. (Distributive		
			property.) (Students need not use formal terms for these		
		_	properties.)		
3	OA	5		11144	
			CC.3.OA.6 Understand properties of multiplication and the	H.11	
			relationship between multiplication and division. Understand		
			division as an unknown-factor problem. For example, divide		
			32 ÷ 8 by finding the number that makes 32 when multiplied		
3	OA	6	by 8.		
			CC.3.OA.7 Multiply and divide within 100. Fluently multiply		Grade 4 H.18
			and divide within 100, using strategies such as the		
			relationship between multiplication and division (e.g.,		
			knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties		
			of operations. By the end of Grade 3, know from memory all		
3	OA	7	products of one-digit numbers.		

3	NBT	3	used.)		
			(e.g., 9 × 80, 5 × 60) using strategies based on place value and properties of operations. (A range of algorithms may be		
			of operations to perform multi-digit arithmetic. Multiply one- digit whole numbers by multiples of 10 in the range 10-90		
			CC.3.NBT.3 Use place value understanding and properties	F.48	
3	NBT	2	,		
			and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction. (A range of algorithms may be used.)	D.12, D.13, D.14, D.15, D.16.01,	F.31, F.32, F.33, F.34, F.35, G.22, H.01, H.02, H.03, H.04, H.05
			CC.3.NBT.2 Use place value understanding and properties of operations to perform multi-digit arithmetic. Fluently add	C.07, C.08, C.09, C.10, C.11, D.01,	Grade 2 F.11.01, F.22, F.25, F.26, F.27, F.28, F.29, F.30,
3	NBT	1	of operations to perform multi-digit arithmetic. Use place value understanding to round whole numbers to the nearest 10 or 100.		E.06.02, E.07.01, E.07.02, E.10
3	OA	9	CC.3.NBT.1 Use place value understanding and properties		Grade 2 C.09, C.10, E.06.01,
			arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends.		Grade 4 B.18, B.19, B.20, B.21, C.17, C.19, F.03, F.08, F.09, H.02 Grade 5 A.31, A.32, D.09, D.10, D.12.01, D.13, E.14, E.15, E.16, H.25, H.26
			CC.3.OA.9 Solve problems involving the four operations, and identify and explain patterns in arithmetic. Identify	A.19, A.20, B.14, F.49, F.50, H.59, H.60	Grade 2 I.05.01, I.05.02, I.06
3	OA	8	CC.3.OA.8 Solve problems involving the four operations, and identify and explain patterns in arithmetic. Solve two-step word problems using the four operations. 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. (This standard is limited to problems posed with whole numbers and having whole-number answers; students should know how to perform operations in the conventional order when there are no parentheses to specify a particular order (Order of Operations).)	E.11, E.12, J.11, J.12, J.13, J.14, J.15	

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			CC.3.NF.1 Develop understanding of fractions as numbers.	K.01, K.04, K.05, K.14, K.16	Grade 1 L.06, L.07, L.08, L.09,
			Understand a fraction 1/b as the quantity formed by 1 part		L.10
			when a whole is partitioned into b equal parts; understand a		Grade 2 J.09
			fraction a/b as the quantity formed by a parts of size 1/b.		
			(Grade 3 expectations in this domain are limited to fractions		Grade 4 K.02
			with denominators 2, 3, 4, 6, and 8.)		
					Grade 5 H.01
3	NF	1			
			CC.3.NF.2 Develop understanding of fractions as numbers.		
			Understand a fraction as a number on the number line;		
			represent fractions on a number line diagram. (Grade 3		
			expectations in this domain are limited to fractions with		
3	NF	2	denominators 2, 3, 4, 6, and 8.)		
			CC.3.NF.2a Represent a fraction 1/b on a number line		
			diagram by defining the interval from 0 to 1 as the whole and		
			partitioning it into b equal parts. Recognize that each part		
			has size 1/b and that the endpoint of the part based at 0		
			locates the number 1/b on the number line. (Grade 3		
			expectations in this domain are limited to fractions with		
3	NF	2a	denominators 2, 3, 4, 6, and 8.)		
			CC.3.NF.2b Represent a fraction a/b on a number line		
			diagram by marking off a lengths 1/b from 0. Recognize that		
			the resulting interval has size a/b and that its endpoint		
			locates the number a/b on the number line. (Grade 3		
			expectations in this domain are limited to fractions with		
3	NF	2b	denominators 2, 3, 4, 6, and 8.)		
3	INI	20	CC.3.NF.3 Develop understanding of fractions as numbers.		Grade 2 J.06.01, J.06.02, J.07,
					J.08, J.10
			Explain equivalence of fractions in special cases, and		J.06, J. 10
			compare fractions by reasoning about their size. (Grade 3		
	N.E		expectations in this domain are limited to fractions with		
3	NF	3	denominators 2, 3, 4, 6, and 8.)		
			CC.3.NF.3a Understand two fractions as equivalent (equal)		
			if they are the same size, or the same point on a number		
			line. (Grade 3 expectations in this domain are limited to		
			fractions with denominators 2, 3, 4, 6, and 8.)		
3	NF	3a			

3	MD	1	minutes, e.g., by representing the problem on a number line diagram.		
			CC.3.MD.1 Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects. Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in	L.01, L.02, L.03, L.04, L.05, L.06, L.07, L.08, L.09, L.10, L.23, L.24	Grade 5 N.19
3	NF	3d	CC.3.NF.3d Compare two fractions with the same numerator or the same denominator, by reasoning about their size, Recognize that valid comparisons rely on the two fractions referring to the same whole. Record the results of comparisons with the symbols >, =, or <, and justify the conclusions, e.g., by using a visual fraction model. (Grade 3 expectations in this domain are limited to fractions with denominators 2, 3, 4, 6, and 8.)	K.03, K.11, K.12, K.13	
3	NF NF	3b 3c	fractions with denominators 2, 3, 4, 6, and 8.) CC.3.NF.3c Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers. Examples: Express 3 in the form 3 = 3/1; recognize that 6/1 = 6; locate 4/4 and 1 at the same point of a number line diagram. (Grade 3 expectations in this domain are limited to fractions with denominators 2, 3, 4, 6, and 8.)		Grade 4 K.09, K.11, K.12, K.13, K.14, K.15, K.16, K.17
	NE	Oh.	CC.3.NF.3b Recognize and generate simple equivalent fractions (e.g., 1/2 = 2/4, 4/6 = 2/3), Explain why the fractions are equivalent, e.g., by using a visual fraction model. (Grade 3 expectations in this domain are limited to	K.06.01, K.06.02, K.07.01, K.07.02, K.08.01, K.08.02, K.09.01, K.09.02, K.15,	Grade 4 K.08 Grade 5 H.02, H.06, H.08

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			CC.3.MD.2 Solve problems involving measurement and	N.06	
			estimation of intervals of time, liquid volumes, and masses		
			of objects. Measure and estimate liquid volumes and		
			masses of objects using standard units of grams (g),		
			kilograms (kg), and liters (l). (Excludes compound units		
			such as cm ³ and finding the geometric volume of a		
			, , , , , , , , , , , , , , , , , , , ,		
			container.) Add, subtract, multiply, or divide to solve one-		
			step word problems involving masses or volumes that are		
			given in the same units, e.g., by using drawings (such as a		
			beaker with a measurement scale) to represent the		
			problem. (Excludes multiplicative comparison problems		
			(problems involving notions of "times as much.")		
3	MD	2			
			CC.3.MD.3 Represent and interpret data. Draw a scaled		
			picture graph and a scaled bar graph to represent a data set		
			with several categories. Solve one- and two-step "how many		
			more" and "how many less" problems using information		
			presented in scaled bar graphs. For example, draw a bar		
			graph in which each square in the bar graph might represent		
3	MD	3	5 pets.		
			CC.3.MD.4 Represent and interpret data. Generate	N.01, N.02	
			measurement data by measuring lengths using rulers		
			marked with halves and fourths of an inch. Show the data by		
			making a line plot, where the horizontal scale is marked off		
			in appropriate units—whole numbers, halves, or quarters.		
	MD	4	In appropriate units—whole numbers, haives, or quarters.		
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			·	0.14	
			of area and relate area to multiplication and to addition.		
			Recognize area as an attribute of plane figures and		
			understand concepts of area measurement.		
			a. A square with side length 1 unit, called "a unit		
			square," is said to have "one square unit" of area, and can		
			be used to measure area.		
			b. A plane figure which can be covered without gaps or		
			overlaps by n unit squares is said to have an area of n		
3	MD	5	square units.		
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			CC.3.MD.6 Geometric measurement: understand concepts	O.12, O.18	
			of area and relate area to multiplication and to addition.		
			Measure areas by counting unit squares (square cm, square		
			m, square in, square ft, and improvised units).		
3	MD	6			
			CC.3.MD.7 Geometric measurement: understand concepts		
			of area and relate area to multiplication and to addition.		
			Relate area to the operations of multiplication and addition.		
3	MD	7			
			CC.3.MD.7a Find the area of a rectangle with whole-number		
			side lengths by tiling it, and show that the area is the same		
			as would be found by multiplying the side lengths.		
3	MD	7a			
			CC.3.MD.7b Multiply side lengths to find areas of rectangles		
			with whole-number side lengths in the context of solving real		
			world and mathematical problems, and represent whole-		
			number products as rectangular areas in mathematical		
3	MD	7b	reasoning.		
			CC.3.MD.7c Use tiling to show in a concrete case that the		
			area of a rectangle with whole-number side lengths a and b		
			+ c is the sum of a × b and a × c. Use area models to		
			represent the distributive property in mathematical		
3	MD	7c	reasoning.		
			CC.3.MD.7d Recognize area as additive. Find areas of		
			rectilinear figures by decomposing them into non-		
			overlapping rectangles and adding the areas of the non-		
			overlapping parts, applying this technique to solve real world		
3	MD	7d	problems.		
			CC.3.MD.8 Geometric measurement: recognize perimeter		
			as an attribute of plane figures and distinguish between		
			linear and area measures. Solve real world and		
			mathematical problems involving perimeters of polygons,		
			including finding the perimeter given the side lengths, finding		
			an unknown side length, and exhibiting rectangles with the		
			same perimeter and different area or with the same area		
			and different perimeter.		
3	MD	8	and amoronic polimotor.		
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3	G	CC.3.G.1 Reason with shapes and their attributes. Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.	O.06,	Grade 5 R.01, R.02, R.03
3	G	CC.3.G.2 Reason with shapes and their attributes. Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. For example, partition a shape into 4 parts with equal area, and describe the area of each part is 1/4 of the area of the shape.		