Grade 4	Grade 4 Honors Yearlong Mathematics Map								
Resources:	Approved from Board	d of Education	Assessments: PA	RCC Assessments, Performance Series, District Bench	mark Assessments				
		Common Core State Standards – Standards for Math	nematical Practice	:					
		1. Make sense of problems and persevere in solving them		2. Reason abstractly and quantitatively.					
		3. Construct viable arguments and critique the reasoning of	of others.	4. Model with mathematics.					
		5. Use appropriate tools strategically.		6. Attend to precision.					
		7. Look for and make use of structure.		8. Look for and express regularity in repeated reas	oning.				
Domain	Cluster	Common Core Standard	Content	Skills	Academic Vocabulary				
OA	Use the four	4.OA.1 Interpret a multiplication equation as a	multiplication	4.OA.1 Compare multiplication equations					
	operations with whole comparison, e.g., interpret 35 = 5 × 7 as a statement that								
	numbers to solve	35 is 5 times as many as 7 and 7 times as many as 5.							
	problems.	Represent verbal statements of multiplicative							
		comparisons as multiplication equations.							
OA	Use the four	4.OA.1 Interpret a multiplication equation as a	multiplication	4.OA.1 Represent verbal statements as					
	operations with whole	comparison, e.g., interpret 35 = 5 × 7 as a statement that		multiplication equations					
	numbers to solve	35 is 5 times as many as 7 and 7 times as many as 5.							
	problems.	Represent verbal statements of multiplicative							
		comparisons as multiplication equations.							
OA	Use the four	4.OA.2 Multiply or divide to solve word problems	multiplication	4.OA.2 multiply and divide word problems with a	unknown variable				
	operations with whole	involving multiplicative comparison, e.g., by using		symbol for the unknown					
	numbers to solve	drawings and equations with a symbol for the unknown							
	problems.	number to represent the problem, distinguishing							
		multiplicative comparison from additive comparison							

Domain	Cluster	Common Core Standard	Content	Skills	Academic Vocabulary
OA	Use the four operations with whole numbers to solve problems.	4.OA.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	solving multi-step word problems	4.OA.3- Solve multi-step word problems with whole numbers.	remainders
OA	Use the four operations with whole numbers to solve problems.	4.OA.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.	solving multi-step word problems	4.OA.3-Interpret remainders in multi-step word problems	remainders
AC	Use the four operations with whole numbers to solve problems.	4.OA.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.	solving multi-step word problems	4.OA.3 Represent unknown quantity with a letter	remainders
OA	Use the four operations with whole numbers to solve problems.	4.OA.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.	solving multi-step word problems	4.OA.3- Assess reasonableness of answers using estimation and rounding.	remainders

Domain	Cluster	Common Core Standard	Content	Skills	Academic Vocabulary
OA	Generate and analyze	4.OA.5 Generate a number or shape pattern that follows	patterns	4.0A.5- Generate a pattern that follows a rule.	
	patterns.	a given rule. Identify apparent features of the pattern			
		that were not explicit in the rule itself. For example, given			
		the rule "Add 3" and the starting number 1, generate			
		terms in the resulting sequence and observe that the			
		terms appear to alternate between odd and even			
		numbers. Explain informally why the numbers will			
		continue to alternate in this way.			
OA	Generate and analyze	4.OA.5 Generate a number or shape pattern that follows	patterns	4.OA.5- Explain characteristics of the pattern	even, odd,
	patterns.	a given rule. Identify apparent features of the pattern			
		that were not explicit in the rule itself. For example, given			
		the rule "Add 3" and the starting number 1, generate			
		terms in the resulting sequence and observe that the			
		terms appear to alternate between odd and even			
		numbers. Explain informally why the numbers will			
		continue to alternate in this way.			
DA	Write and interpret	5.OA.1 Use parentheses, brackets, or braces in numerical	Numerical	5.OA.1Write numerical expressions using parentheses,	
	numerical	expressions, and evaluate expressions with these	Expressions	brackets, or braces.	
	expressions.	symbols.			
DA	Write and interpret	5.OA.1 Use parentheses, brackets, or braces in numerical	Numerical	5.OA.1 Evaluate numerical expressions using	Evaluate=solve
	numerical	expressions, and evaluate expressions with these	Expressions	parenthesis, brackets, or braces.	
	expressions.	symbols.			
AC	Write and interpret	5.OA.2 Write simple expressions that record calculations	Simple expressions	5.OA.2 Write simple expressions that record	Evaluate=solve
	numerical	with numbers, and interpret numerical expressions		calculations with numbers without evaluating them.	
	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 × (18932 + 921) is three times as			
		large as 18932 + 921, without having to calculate the			
		indicated sum or product.			

Domain	Cluster	Common Core Standard	Content	Skills	Academic Vocabulary
OA	Write and interpret	5.OA.2 Write simple expressions that record calculations	Numerical	5.OA.2 Interpret numerical expressions without	Evaluate=solve
	numerical	with numbers, and interpret numerical expressions	Expressions	evaluating them.	
	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 × (18932 + 921) is three times as			
		large as 18932 + 921, without having to calculate the			
		indicated sum or product.			
OA	Analyze patterns and	5.OA.3 Generate two numerical patterns using two given	Numerical Patterns	5.OA.3 Generate two numerical patterns using two	
	relationships.	rules. Identify apparent relationships between		given rules.	
		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			
		informally why this is so.			
OA	Analyze patterns and	5.OA.3 Generate two numerical patterns using two given	Numerical Patterns	5.OA.3. Describe the relationships between	
	relationships.	rules. Identify apparent relationships between		corresponding terms.	
		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			
		informally why this is so.			

Domain	Cluster	Common Core Standard	Content	Skills	Academic Vocabulary
OA	Analyze patterns and	5.OA.3 Generate two numerical patterns using two given	Ordered Pairs	5.OA.3. Form ordered pairs consisting of corresponding	
	relationships.	rules. Identify apparent relationships between		terms from the two patterns.	
		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			
		informally why this is so.			
OA	Analyze patterns and	5.0A.3 Generate two numerical patterns using two given	Ordered Pairs	5.OA.3 Graph the ordered pairs on a coordinate plane.	Ordered Pairs
	relationships.	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			
		informally why this is so.			
NBT	Understand the place	5.NBT.1 Recognize that in a multi-digit number, a digit in	Place Value	5.NBT.1 Recognize that in a multi-digit number, a digit	Ordered Pairs
	value system.	one place represents 10 times as much as it represents in		in any place represents 10 times as much as it	
		the place to its right and 1/10 of what it represents in the		represents in the place to its right and 1/10 of what it	
		place to its left.		represents in the place to its left.	
NBT	Understand the place	5.NBT.2 Explain patterns in the number of zeros of the	Mulitplication	5.NBT.2 Explain patterns in the number of zeros of the	Powers of 10
	value system.	product when multiplying a number by powers of 10, and	Place Value	product when multiplying a number by powers of 10.	
		explain patterns in the placement of the decimal point	Number Patterns		
		when a decimal is multiplied or divided by a power of 10.			
		Use whole-number exponents to denote powers of 10.			

Domain	Cluster	Common Core Standard	Content	Skills	Academic Vocabulary
NBT	Understand the place value system.	5.NBT.2 Explain patterns in the number of zeros of the product when 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 exponents to denote powers of 10.	Multipication Division Number Patterns	5.NBT.2. Explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10.	Powers of 10
NBT	Understand the place value system.	5.NBT.2 Explain patterns in the number of zeros of the product when 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 exponents to denote powers of 10.	Whole-Number Exponents	5.NBT.2. Write whole number exponenets to denote powers of 10 (Scientific Notation)	Exponents
NBT	Understand the place value system.	5.NBT.3 Read, write, and compare decimals to thousandths.			
NBT	Understand the place value system.	5.NBT.3a Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., $347.392 = 3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times (1/100) + 2 \times (1/1000)$.	Decimal Place Value	5.NBT.3a Read decimals to thousandths using standard form, written form, and expanded form.	
NBT	Understand the place value system.	5.NBT.3a Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., $347.392 = 3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times (1/100) + 2 \times (1/1000)$.	Decimal Place Value	5.NBT.3a Write decimals to thousandths using standard form, written form, and expanded form.	
NBT	Understand the place value system.	5.NBT.3b Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.	Decimal Place Value	5.NBT.3b Compare two decimals to thousandths using >, =, < .	
NBT	Understand the place value system.	5.NBT.4. Use place value understanding to round decimals to any place.	Decimal Place Value	5.NBT.4. Round decimals to a given place value.	

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NF	Extend understanding of fraction equivalence and ordering.	4.NF.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.	fractions	4.NF.2 Compare fractions with different numerators and denominators by finding common numerators or common denominators, or by comparing to a benchmark.	Numerators and Denominators
NF	Extend understanding of fraction equivalence and ordering.	4.NF.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.	fractions	4.NF.2- Recognize that comparisons are valid only when the two fractions refer to the same whole.	Numerators and Denominators
NF	Extend understanding of fraction equivalence and ordering.	4.NF.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.	fractions	4.NF.2- Compare fractions with >, <, and = ; prove using a visual model	Numerators and Denominators

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NF	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	4.NF.3 Understand a fraction a/b with a > 1 as a sum of fractions 1/b.	fractions	4.NF.3- Recognize a fraction a/b with a numerator greater than 1, is the sum of unit fraction 1/b	
NF	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	4.NF.3a Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.	fractions	4.NF.3a- Identify addition and subtraction of fractions as joining and separating parts referring to the same whole.	
NF	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	4.NF.3b 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. Examples: $3/8 = 1/8 + 1/8 + 1/8$; $3/8 = 1/8 + 2/8$; $2 \ 1/8 =$ 1 + 1 + 1/8 = 8/8 + 8/8 + 1/8.	additions and subtraction of fractions	4.NF.3b 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. Examples: $3/8 = 1/8 + 1/8 + 1/8$; $3/8 = 1/8 + 2/8$; 2 1/8 = 1 + 1 + 1/8 = 8/8 + 8/8 + 1/8.	
NF	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	4.NF.3c 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.	addition and subtraction of fractions	4.NF.3c 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.	Mixed Number

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NF	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	4.NF.3d 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.	addition and subtraction of fractions	4.NF.3d 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.	
NF	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	4.NF.4 Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.	multiplication of fractions	4.NF.4- Apply and extend of multiplication to multiply a fraction by a whole number.	
NF	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	4.NF.4a Understand a fraction a/b as a multiple of 1/b. For example, use a visual fraction model to represent 5/4 as the product 5 × (1/4), recording the conclusion by the equation 5/4 = 5 × (1/4).	multiplication of fractions	4.NF.4a- Identify a fraction a/b as a multiple of 1/b. For example, use a visual fraction model to represent 5/4 as the product $5 \times (1/4)$, recording the conclusion by the equation $5/4 = 5 \times (1/4)$.	
NF	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	4.NF.4b Understand a multiple of a/b as a multiple of 1/b, and use this understanding to multiply a fraction by a whole number. For example, use a visual fraction model to express $3 \times (2/5)$ as $6 \times (1/5)$, recognizing this product as $6/5$. (In general, $n \times (a/b) = (n \times a)/b$.)	multiplication of fractions	4.NF.4b-Identify a multiple of a/b as a multiple of 1/b, and use this understanding to multiply a fraction by a whole number. For example, use a visual fraction model to express $3 \times (2/5)$ as $6 \times (1/5)$, recognizing this product as $6/5$. (In general, $n \times (a/b) = (n \times a)/b$.)	

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NF	Build fractions from	4.NF.4c Solve word problems involving multiplication of a	multiplication of	4.NF.4c- Solve word problems involving multiplication	
	anniving and	models and equations to represent the problem. For	Inactions	fraction models and equations to represent the	
	extending previous	example, if each person at a party will eat 3/8 of a pound		naction models and equations to represent the	
	understandings of	of roast heef and there will be 5 people at the party		problem.	
	operations on whole	how many pounds of roast heef will be needed? Between			
	numbers	what two whole numbers does your answer lie?			
	numbers.	what two whole numbers does your answer he:			
NF	Understand decimal	4.NF.5 Express a fraction with denominator 10 as an	fractions	4.NF.5- Convert a fraction with a denominator of ten	
	notation for fractions,	equivalent fraction with denominator 100, and use this		to a fraction with a denominator of 100.	
	and compare decimal	technique to add two fractions with respective			
	fractions.	denominators 10 and 100.2 For example, express 3/10 as			
		30/100, and add 3/10 + 4/100 = 34/100.			
NF	Understand decimal	4.NF.5 Express a fraction with denominator 10 as an	fractions	4.NF.5- Add fractions with 10 or 100 in the	
	notation for fractions,	equivalent fraction with denominator 100, and use this		denominator.	
	and compare decimal	technique to add two fractions with respective			
	fractions.	denominators 10 and 100.2 For example, express 3/10 as			
		30/100, and add 3/10 + 4/100 = 34/100.			
NF	Understand decimal	4.NF.6 Use decimal notation for fractions with	fractions with	4.NF.6- Identify decimal notation for fractions with	
	notation for fractions,	denominators 10 or 100. For example, rewrite 0.62 as	decimal notation	deominators 10 or 100	
	and compare decimal	62/100; describe a length as 0.62 meters; locate 0.62 on			
	fractions.	a number line diagram.			
NF	Understand decimal	4.NF.7 Compare two decimals to hundredths by	compare decimals	4.NF.7- Recognize that comparisons are valid only	tenths. hundreths
	notation for fractions.	reasoning about their size. Recognize that comparisons	1	when the two decimals refer to the same whole	
	and compare decimal	are valid only when the two decimals refer to the same			
	fractions.	whole. Record the results of comparisons with the			
		symbols >, =, or <, and justify the conclusions, e.g., by			
		using a visual model.			

Domain	Cluster	Common Core Standard	Content	Skills	Academic Vocabulary
NF	Understand decimal notation for fractions, and compare decimal fractions.	4.NF.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.	compare decimals	4.NF.7Compare decimals with >, <, and = ; prove using a visual model	
MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, 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. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36),	Measurement and data	4.MD.1- Recognize relative sizes of length in metric measurement	km, m, cm
MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, 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. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36),	Measurement and Data	4.MD.1- Recognize relative sizes of length in standard measurement	in., ft., yds.

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MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, 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. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36),	Measurement and Data	4. MD. 1Recognize relative sizes of capacity in standard measurement	cups, pints, quarts, gallons
MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, 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. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36),	Measurement and data	4.MD.1 -Recognize relative sizes of weight in metric measurement	kg, g
MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, 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. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36),	Measurement and data	4. MD. 1Recognize relative sizes of capacity in metric measurement	l, ml

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MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, 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. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36),	Measurement and data	4.MD.1 -Recognize relative sizes of weight in standard measurement	lb, oz
MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, 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. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36),	Measurement and data	4.MD.1 -Recognize relative sizes of time	hr, min, sec
MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, 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. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36),	Measurement and data	4.MD.1- Express measurements in a larger unit in terms of a smaller unit	

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MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, 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. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36),	Measurement and data	4.MD.1- Record measurement equivalence in a two column table	
MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.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.	Measurement in problem solving	4.MD.2- Apply the four operations solving word problems involving distances, including problems involving simple fractions and decimals and problems that require expressing measurements given in a larger unit in terms of a smaller unit	
MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.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.	Measurement in problem solving	4.MD.2- Apply the four operations solving word problems involving intervals of time	

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MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.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.	Measurement in problem solving	4.MD.2- Apply the four operations solving word problems involving liquid volumes	
MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.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.	Measurement in problem solving	4.MD.2- Apply the four operations solving word problems involving masses of objects	
MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.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.	Measurement in problem solving	4.MD.2- Apply the four operations solving word problems involving money	

Domain	Cluster	Common Core Standard	Content	Skills	Academic Vocabulary
MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.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.	Measurement in problem solving	4.MD.2- Represent measurement quantities using diagrams	
MD	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.3 Apply the area and perimeter formulas for rectangles in real world and mathematical problems. For example, find the width of a rectangular room given the area of the flooring and the length, by viewing the area formula as a multiplication equation with an unknown factor.	Measurement	4.MD.3-Apply the area and perimeter formulas for rectangles in real world and mathematical problems.	