Grade 3 Montana Standards	A student who performed at this level did not meet grade-level expectations in this subject and needs considerable support to develop the required knowledge, skills, and practices necessary for future coursework in	partially met grade-level expectations in this subject and needs support to develop the required knowledge, skills, and practices	grade-level expectations in this subject. The	Advanced  A student who performed at this level exceeded grade-level expectations. The student has demonstrated mastery of the required knowledge, skills, and practices necessary for future coursework in this content area.
	A student at this level:	A student at this level:	A student at this level:	A student at this level:
Operations and Algebraic Thinking (OA)				
3.OA.A Represent and solve problems involving multiplication and division.				
3.OA.A.1 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.	representation (e.g., determines an array of 5 groups of 3 markers can be represented by $5 \times 3$ ).	Creates an array or model of equal groups to represent products of whole numbers.  Multiplication within 10 × 10.	Interprets products of whole numbers without a visual representation (e.g., interprets a description of 5 groups of 3 markers as $5 \times 3$ ).  Creates an array or model of equal groups to represent the product of whole numbers.  Multiplication within $10 \times 10$ .	Creates a real-world context that can be modeled by a given multiplication expression involving whole numbers.  Multiplication within 10 × 10.
	See 3.OA.A.3 for solving word problems.			

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	Interprets quotients of whole numbers given a visual representation (e.g., interprets a picture of 15 markers divided into 3 groups as $15 \div 3$ ). Division within $10 \times 10$ . See 3.OA.A.3 for solving word problems.	Creates an array or model of equal groups to represent quotients of whole numbers.  Division within 10 × 10.	Interprets quotients of whole numbers without a visual representation (e.g., interprets a description of dividing 15 markers into groups with 3 markers as 15 ÷ 3).  Division within 10 × 10.	Creates a real-world context that can be modeled by given division expression involving whole numbers. Division within $10 \times 10$ .
, , ,	multiplication or division word problem involving equal groups, arrays, or measurement quantities.  Multiplication and division within 10 × 10.  See 3.MD.A.2 and 3.MD.D.8 for contexts using mass, volume, and perimeter.	Solves a one-step word problem involving equal groups, arrays, or measurement quantities given a visual representation of the problem.  Solves a one-step word problem involving equal groups, arrays, or measurement quantities without a visual representation of the problem. At least one factor is less than or equal to 5.  Represents a one-step multiplication or division word problem involving equal groups, arrays, or measurement quantities with an equation using a symbol to represent the unknown number.  Multiplication and division within 10 × 10.	greater than 5.	Analyzes representations and solutions of one-step word problems involving equal groups, arrays, or measurement quantities.  Multiplication and division within 10 × 10.
3.OA.A.4 Determine the unknown whole number in a multiplication or division equation relating three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations $8 \times ? = 48, 5 = ? \div 3, 6 \times 6 = ?$ .	multiplication or division equation when the unknown number is 1 (e.g., $6 \times ? = 6$ ).  Multiplication and division within $10 \times 10$ .	Determines the unknown whole number in a multiplication or division equation when the unknown number and the given numbers are single-digit whole numbers (e.g., $6 \times ? = 2$ or $6 \div ? = 2$ ).  Multiplication and division within $10 \times 10$ .		Determines the unknown whole number in a division equation when the unknown number is the divisor and the dividend is a two-digit number (e.g., 48 ÷ ? = 6).  Division within 10 × 10.

	_	T	T	T
3.OA.B.5 Apply properties of operations as strategies	None.	Identifies multiplication expressions or equations with	· ·	Creates an equivalent expression based on the
to multiply and divide. Examples: If		the same product based on the commutative property	, , , , , , , , , , , , , , , , , , , ,	distributive property.
$6 \times 4 = 24$ is known, then $4 \times 6 = 24$ is also known.		of multiplication (e.g., if $6 \times 4 = 24$ is known, then $4 \times 6$	16 = 56)	
(Commutative property of multiplication.) $3 \times 5 \times 2$		= 24).		Products within 100.
can be found by $3 \times 5 = 15$ , then $15 \times 2 = 30$ , or by $5 \times 5 = 15$			Creates an equivalent expression based on the	
$2 = 10$ , then $3 \times 10 = 30$ . (Associative property of		Identifies multiplication expressions or equations with	commutative or associative property.	Students do not need to use the formal terms of the
multiplication.) Knowing that $8 \times 5 = 40$ and $8 \times 2 = 16$ ,		the same product based on the associative property of		properties.
one can find $8 \times 7$ as $8 \times (5 + 2) = (8 \times 5) + (8 \times 2) = 40 +$		multiplication (e.g., $3 \times 5 \times 2$ can be found by $3 \times 5 =$	Multiplication within 10 × 10 and products within 100.	
16 = 56. (Distributive property.)		15, then $15 \times 2 = 30$ , or by $5 \times 2 = 10$ , then $3 \times 10 = 30$ .		
		, , , ,	Students do not need to use the formal terms of the	
		Products within 100.	properties.	
			F. 5 F. 5 . 5 . 5 . 5	
		Students do not need to use the formal terms of the		
		properties.		
		properties.		
3.OA.B.6 Understand division as an unknown factor	None.	Determines the corresponding unknown factor	Determines the corresponding unknown fact given a	Creates a division problem with an unknown given a
problem. For example, find 32 ÷ 8 by finding the		problem given a division problem (e.g., given 32 ÷ 8 =	division problem (e.g., given $32 \div 8 = ?$ , determine $4 \times 8 = ?$	corresponding fact (e.g., given $4 \times 8$ , creates $32 \div 8 = ?$
number that makes 32 when multiplied by 8.		?, determine ? × 8 = 32 is a corresponding	8 is a corresponding multiplication fact).	as a corresponding division problem).
· · ·		multiplication problem).		
			Multiplication and division within 10 × 10.	Multiplication and division within $10 \times 10$ .
		Multiplication and division within 10 × 10.		
		1		
3.OA.C Multiply and divide within 100.				
3.OA.C.7 Fluently multiply and divide within 100,	Multiplies two whole number when one factor is 0 or	Multiplies two whole number when one factor is	Multiplies two whole number when both factors are	None.
using strategies such as the relationship between	1 and the other factor is between 0 and 10.	between 2 and 5 and the other factor is between 2	between 6 and 10.	
multiplication and division (e.g., knowing that $8 \times 5 =$		and 10.		
	Divides a one or two-digit number by 0 or 1 to find a		Divides a two-digit number by a single-digit number	
By the end of Grade 3, know from memory all		Divides a single-digit number between 2 and 9 by a	other than 0 or 1.	
products of two one-digit numbers.		single-digit number between 2 and 9.		
	Multiplication and division within $10 \times 10$ .		Divides a two-digit multiple of 10 by 10.	
	· · · · · · · · · · · · · · · · · · ·	Divides 100 by 10.	2 mass a tire angle manapie of 20 by 20.	
		5.11de5 100 5y 10.	Multiplication and division within $10 \times 10$ .	
		Multiplication and division within $10 \times 10$ .	Manapheation and division within 10 × 10.	
		inidiciplication and division within 10 ^ 10.		
3.OA.D Solve problems involving the four operations,				
and identify and explain patterns in arithmetic.				
,				

3.OA.D.8 Solve two-step word problems using the	None.	Solves two-step word problems including those with	Solves two-step word problems including those with	Analyzes solutions of two-step word problems
four operations within cultural contexts, including		Montana American Indian cultural context when one	Montana American Indian cultural context when one	including those with Montana American Indian
those of Montana American Indians. Represent these	See 2.OA.A.1 for solving and representing one- and	operation is multiplication and the other operation is	operation is division and the other operation is	cultural context when one operation is multiplication
problems using equations with a letter standing for	two-step word problems with addition and subtraction	addition or subtraction.	addition or subtraction.	or division and the other operation is addition or
the unknown quantity. Assess the reasonableness of	within 100.			subtraction. May include rounding.
answers using mental computation and estimation		Represents a two-step word problem including those	Represents a two-step word problem including those	
strategies including rounding.	See 3.MD.A.2 and 3.MD.D.8 for contexts using mass,	with Montana American Indian cultural context when	with Montana American Indian cultural context when	Multiplication and division within $10 \times 10$ .
	volume, and perimeter.	one operation is multiplication and the other	one operation is division and the other operation is	
		operation is addition or subtraction. Uses a letter for	addition or subtraction. Uses a letter for the unknown	Addition and subtraction within 1,000.
	Does not include multiplicative comparison. See 4.OA.A.2.	the unknown quantity.	quantity.	
		Solves two-step word problems including those with	Solves two-step word problems including those with	
		Montana American Indian cultural context involving	Montana American Indian cultural context involving	
		rounding when one operation is multiplication and the		
		other operation is addition or subtraction.	operation is addition or subtraction.	
		Multiplication and division within $10 \times 10$ .	Multiplication and division within $10 \times 10$ .	
		Addition and subtraction within 1,000.	Addition and subtraction within 1,000.	
3.OA.D.9 Identify arithmetic patterns (including	Determines the rule for an arithmetic pattern	Determines the rule for an arithmetic pattern	Explain patterns in the multiplication table using	Analyzes a rule for a given arithmetic pattern
3.OA.D.9 Identify arithmetic patterns (including patterns in the addition table or multiplication table),	Determines the rule for an arithmetic pattern generated with addition.	Determines the rule for an arithmetic pattern generated with multiplication.	Explain patterns in the multiplication table using properties of operations.	Analyzes a rule for a given arithmetic pattern generated with multiplication (e.g., explains why a rule
	·	•		,
patterns in the addition table or multiplication table),	·	•		generated with multiplication (e.g., explains why a rule
patterns in the addition table or multiplication table), and explain them using properties of	generated with addition.	generated with multiplication.	properties of operations.	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).
patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that four times a	generated with addition.  Determines a missing value in an arithmetic pattern	generated with multiplication.  Determines a missing value in an arithmetic pattern	properties of operations.  Analyzes a rule for a given arithmetic pattern	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).
patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that four times a number is always even, and explain why four times a	generated with addition.  Determines a missing value in an arithmetic pattern	generated with multiplication.  Determines a missing value in an arithmetic pattern	properties of operations.  Analyzes a rule for a given arithmetic pattern generated with addition (e.g., explains why a rule does	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).
patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that four times a number is always even, and explain why four times a	generated with addition.  Determines a missing value in an arithmetic pattern generated with addition.	generated with multiplication.  Determines a missing value in an arithmetic pattern generated with multiplication.	properties of operations.  Analyzes a rule for a given arithmetic pattern generated with addition (e.g., explains why a rule does	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).
patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that four times a number is always even, and explain why four times a	generated with addition.  Determines a missing value in an arithmetic pattern generated with addition.	generated with multiplication.  Determines a missing value in an arithmetic pattern generated with multiplication.	properties of operations.  Analyzes a rule for a given arithmetic pattern generated with addition (e.g., explains why a rule does or does not match the given pattern).	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).
patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that four times a number is always even, and explain why four times a	generated with addition.  Determines a missing value in an arithmetic pattern generated with addition.  Addition within 1,000.	generated with multiplication.  Determines a missing value in an arithmetic pattern generated with multiplication.	properties of operations.  Analyzes a rule for a given arithmetic pattern generated with addition (e.g., explains why a rule does or does not match the given pattern).	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).
patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that four times a number is always even, and explain why four times a	generated with addition.  Determines a missing value in an arithmetic pattern generated with addition.  Addition within 1,000.	generated with multiplication.  Determines a missing value in an arithmetic pattern generated with multiplication.	properties of operations.  Analyzes a rule for a given arithmetic pattern generated with addition (e.g., explains why a rule does or does not match the given pattern).  Multiplication within 10 × 10.	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).
patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that four times a number is always even, and explain why four times a number can be decomposed into two equal addends.	generated with addition.  Determines a missing value in an arithmetic pattern generated with addition.  Addition within 1,000.	generated with multiplication.  Determines a missing value in an arithmetic pattern generated with multiplication.	properties of operations.  Analyzes a rule for a given arithmetic pattern generated with addition (e.g., explains why a rule does or does not match the given pattern).  Multiplication within 10 × 10.	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).
patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that four times a number is always even, and explain why four times a	generated with addition.  Determines a missing value in an arithmetic pattern generated with addition.  Addition within 1,000.	generated with multiplication.  Determines a missing value in an arithmetic pattern generated with multiplication.	properties of operations.  Analyzes a rule for a given arithmetic pattern generated with addition (e.g., explains why a rule does or does not match the given pattern).  Multiplication within 10 × 10.	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).
patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that four times a number is always even, and explain why four times a number can be decomposed into two equal addends.  Number and Operations in Base Ten (NBT)	generated with addition.  Determines a missing value in an arithmetic pattern generated with addition.  Addition within 1,000.	generated with multiplication.  Determines a missing value in an arithmetic pattern generated with multiplication.	properties of operations.  Analyzes a rule for a given arithmetic pattern generated with addition (e.g., explains why a rule does or does not match the given pattern).  Multiplication within 10 × 10.	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).
patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that four times a number is always even, and explain why four times a number can be decomposed into two equal addends.  Number and Operations in Base Ten (NBT)  3.NBT.A Use place value understanding and	generated with addition.  Determines a missing value in an arithmetic pattern generated with addition.  Addition within 1,000.	generated with multiplication.  Determines a missing value in an arithmetic pattern generated with multiplication.	properties of operations.  Analyzes a rule for a given arithmetic pattern generated with addition (e.g., explains why a rule does or does not match the given pattern).  Multiplication within 10 × 10.	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).
patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that four times a number is always even, and explain why four times a number can be decomposed into two equal addends.  Number and Operations in Base Ten (NBT)	generated with addition.  Determines a missing value in an arithmetic pattern generated with addition.  Addition within 1,000.	generated with multiplication.  Determines a missing value in an arithmetic pattern generated with multiplication.	properties of operations.  Analyzes a rule for a given arithmetic pattern generated with addition (e.g., explains why a rule does or does not match the given pattern).  Multiplication within 10 × 10.	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).
patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that four times a number is always even, and explain why four times a number can be decomposed into two equal addends.  Number and Operations in Base Ten (NBT)  3.NBT.A Use place value understanding and properties of operations to perform multi-digit arithmetic.	generated with addition.  Determines a missing value in an arithmetic pattern generated with addition.  Addition within 1,000.  See 4.OA.B.5 for generating a pattern.	generated with multiplication.  Determines a missing value in an arithmetic pattern generated with multiplication.	properties of operations.  Analyzes a rule for a given arithmetic pattern generated with addition (e.g., explains why a rule does or does not match the given pattern).  Multiplication within 10 × 10.	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).
patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that four times a number is always even, and explain why four times a number can be decomposed into two equal addends.  Number and Operations in Base Ten (NBT)  3.NBT.A Use place value understanding and properties of operations to perform multi-digit	generated with addition.  Determines a missing value in an arithmetic pattern generated with addition.  Addition within 1,000.  See 4.OA.B.5 for generating a pattern.  3.NBT.A.1 is assessed as part of solving real-word	generated with multiplication.  Determines a missing value in an arithmetic pattern generated with multiplication.	properties of operations.  Analyzes a rule for a given arithmetic pattern generated with addition (e.g., explains why a rule does or does not match the given pattern).  Multiplication within 10 × 10.	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).
patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that four times a number is always even, and explain why four times a number can be decomposed into two equal addends.  Number and Operations in Base Ten (NBT)  3.NBT.A Use place value understanding and properties of operations to perform multi-digit arithmetic.	generated with addition.  Determines a missing value in an arithmetic pattern generated with addition.  Addition within 1,000.  See 4.OA.B.5 for generating a pattern.  3.NBT.A.1 is assessed as part of solving real-word problems in 3.OA.D.8. No items are aligned to 3.NBT.1	generated with multiplication.  Determines a missing value in an arithmetic pattern generated with multiplication.	properties of operations.  Analyzes a rule for a given arithmetic pattern generated with addition (e.g., explains why a rule does or does not match the given pattern).  Multiplication within 10 × 10.	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).
patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that four times a number is always even, and explain why four times a number can be decomposed into two equal addends.  Number and Operations in Base Ten (NBT)  3.NBT.A Use place value understanding and properties of operations to perform multi-digit arithmetic.  3.NBT.A.1 Use place value understanding to round	generated with addition.  Determines a missing value in an arithmetic pattern generated with addition.  Addition within 1,000.  See 4.OA.B.5 for generating a pattern.  3.NBT.A.1 is assessed as part of solving real-word	generated with multiplication.  Determines a missing value in an arithmetic pattern generated with multiplication.	properties of operations.  Analyzes a rule for a given arithmetic pattern generated with addition (e.g., explains why a rule does or does not match the given pattern).  Multiplication within 10 × 10.	generated with multiplication (e.g., explains why a rule does or does not match the given pattern).

3.NBT.A.2 Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.	without regrouping.	Adds a two-digit number and a three-digit number with regrouping.  Subtracts a two-digit number from a three-digit number with regrouping. Minuends must be greater than 100.	Adds within 101-1,000 with regrouping.  Subtracts within 101-1,000 with regrouping. Minuends must be greater than 100.	Analyzes the strategy used to add or subtract within 101-1,000. The standard algorithm is not required.
3.NBT.A.3 Multiply one-digit whole numbers by multiples of 10 in the range 10-90 (e.g., $9 \times 80$ , $5 \times 60$ ) using strategies based on place value and properties of operations.	Multiplies 1 by a multiple of 10 in the range of 10 to 90 using strategies based on place value and properties of operations.	Multiplies a whole number in the range of 2 to 5 by a multiple of 10 in the range of 10 to 50 using strategies based on place value and properties of operations.	Multiplies a whole number in the range of 6 to 9 by a multiple of 10 in the range of 60 to 90 using strategies based on place value and properties of operations.	Analyzes/Explains the strategy used to multiply a one-digit whole number by a multiple of 10 in the range of 10 to 90.
Number and Operations - Fractions (NF)				
3.NF.A Develop understanding of fractions as numbers.				
3.NF.A.1 Understand a fraction 1/b as the quantity formed by 1 part when a whole is partitioned into b	Identifies an area model that represents a unit fraction $1/b$ .	Identifies an area model that represents a non-unit fraction $a/b$ with parts the size of $1/b$ .	Determines the non-unit fraction $a/b$ with parts the size of $1/b$ that is represented by an area model.	Creates an area model to represent a unit fraction 1/b.
equal parts; understand a fraction $a/b$ as the quantity formed by $a$ parts of size $1/b$ .	Area terminology is not used.	Determines the unit fraction 1/b that is represented	Recognizes that the denominator of a fraction is the	Creates an area model to represent a non-fraction $a/b$ with parts the size of $1/b$ .
	Denominators are limited to 2, 3, 4, 6 and 8.	by area model.	number of equal parts the whole is partitioned into.	Explains whether an area model is appropriate for a
	See 3.G.A.2 for relating area of shapes to unit	Area terminology is not used.	Recognizes that the numerator is the quantity of equal parts of size $1/b$ .	given fraction (e.g., determines and explains an error in how an area model was created given a fraction and
	fractions.	Denominators are limited to 2, 3, 4, 6 and 8.	Area terminology is not used.	an area model that incorrectly represents the fraction).
	See 3.NF.A.2 for using number lines.		Denominators are limited to 2, 3, 4, 6 and 8.	Area terminology is not used.
				Denominators are limited to 2, 3, 4, 6 and 8.
3.NF.A.2 Understand a fraction as a number on the number line and represent fractions on a number line diagram.	See 3.NF.A.2a - 3.NF.A.2b	See 3.NF.A.2a - 3.NF.A.2b	See 3.NF.A.2a - 3.NF.A.2b	See 3.NF.A.2a - 3.NF.A.2b

2 NE A 2a Dangacant a fraction 4/L and a mount	Determines a unit function of the related and a second	Distance with free stick of 1/h and a second and the second	Distantian 1/h hay no militarian a manala 1	Fundaine wheath and the manuage at the second of the secon
	• •	•	, , ,	Explains whether the representation of a unit fraction
diagram by defining the interval from 0 to 1 as the	line portioned into $b$ equal parts from 0 to 1.	into $b$ equal parts from 0 to 1.	into $b$ equal parts from 0 to 1.	1/b on a number line is appropriate for the given
whole and partitioning it into b equal parts. Recognize	Danassinatana ana linsita dan 2, 2, 4, 6 and 0	December 11 to 12 to 12 to 14 to 15 to 14 to 15		fraction (e.g., determines and explains an error in how
that each part has size $1/b$ , and that the endpoint of	Denominators are limited to 2, 3, 4, 6 and 8.	Recognizes that a unit fraction 1/b is 1/b units from 0	·	a number line was created given a unit fraction and a
the part based at 0 locates the number 1/b on the		on the number line.		number line that incorrectly represents the unit
number line.			size of 1/b.	fraction).
		Denominators are limited to 2, 3, 4, 6 and 8.		
			Denominators are limited to 2, 3, 4, 6 and 8.	Denominators are limited to 2, 3, 4, 6 and 8.
3.NF.A.2b Represent a fraction $a/b$ on a number line	Determines a non-unit fraction less than a /b plotted	Plots a non-unit fraction less than or equal to 1 a /b	Plots a non-unit fraction less than or equal to $1 a/b$ by	Plots a non-unit fraction greater than 1 a /b by
diagram by marking off a lengths 1/b from 0.	on a number line partitioned into b equal parts from 0	on a number line portioned into b equal parts from 0	partitioning a number line into $b$ equal parts from 0 to	partitioning a number line into $b$ equal parts from 0.
Recognize that the resulting interval has size $a/b$ and	to 1.	to 1.	1.	
that its endpoint locates the number $a/b$ on the				Explains whether the representation of a non-unit
number line.	Denominators are limited to 2, 3, 4, 6 and 8.	Determines a non-unit fraction equal to or greater	Plots a non-unit fraction greater than 1 a /b on a	fraction $a/b$ on a number line is appropriate for the
		than 1 $a/b$ plotted on a number line partitioned into	number line partitioned into $b$ equal parts from 0.	given fraction (e.g., determines and explains an error
		<i>b</i> equal parts from 0.		in how a number line was created given a non-unit
			Recognizes the end point of the non-unit fraction $a/b$	fraction and a number line that incorrectly represents
		Fractions equal to 1 are given as b/b.	is a/b units from 0 on the number line.	the unit fraction).
		Denominators are limited to 2, 3, 4, 6 and 8.	Denominators are limited to 2, 3, 4, 6 and 8.	Denominators are limited to 2, 3, 4, 6 and 8.
3.NF.A.3 Explain equivalence of fractions in special	See 3.NF.A.3a - 3.NF.A.3d	See 3.NF.A.3a - 3.NF.A.3d	See 3.NF.A.3a - 3.NF.A.3d	See 3.NF.A.3a - 3.NF.A.3d
cases and compare fractions by reasoning about their	300 3.W. A.3a - 3.W. A.3u	366 3.141 .A.34 - 3.141 .A.34	366 3.141 .A.34 - 3.141 .A.34	366 3.141 .A.34 - 3.141 .A.34
size.				
3120.				
3.NF.A.3a Understand two fractions as equivalent	Determines whether two given fractions with the	Determines whether two given fractions with the	Determine whether two given fractions with different	Explains whether two fractions are equivalent when
(equal) if they are the same size or the same point on	same denominator of 2, 4, or 8 are equivalent based	same denominator of 3 or 6 are equivalent based on a	denominators are equivalent based on a given fraction	given a fraction model or number line for both
a number line.	on a given fraction model or number line for both	given fraction model or number line for both fractions.	model or number line for both fractions. At least one	fractions.
	fractions.		denominator must be 3 or 6.	
		Determine whether two fractions with different		Denominators are limited to 2, 3, 4, 6 and 8.
	Does not include whole number equivalence. See	denominators of 2, 4, or 8 are equivalent based on a		
		given fraction model or number line for both fractions.		
	Does not include using the equal symbol to represent			
	equivalence. See 3.NF.A.3d.			

3.NF.A.3b Recognize and generate simple equivalent	Determines a fraction in the form $a/b$ equivalent to a	Determines a fraction in the form $a/b$ equivalent to a	Determines a fraction in the form $a/b$ equivalent to a	Determines a fraction in the form $a/b$ equivalent to a
fractions, e.g., $1/2 = 2/4$ , $4/6 = 2/3$ . Explain why the	fraction between 0 and 1 given as a fraction model or	fraction between 0 and 1 given as a fraction model or	fraction between 0 and 1 given as a fraction model or	fraction between 0 and 1 without a model given.
fractions are equivalent, e.g., by using a visual fraction	number line. Denominators are limited to 2, 4, or 8.	number line. Denominators are limited to 3 or 6.	number line. Denominators for one fraction are 2, 4,	Denominators for one fraction are 2, 4, or 8.
model.			or 8. Denominator for the other fraction is 6.	Denominator for the other fraction is 6.
	Identifies fraction models or number lines that	Determines a fraction in the form $a/b$ equivalent to a		
	represent equivalent fractions between 0 and 1.	fraction between 0 and 1 without a model given.	Determines a fraction in the form $a/b$ equivalent to a	Explains whether two fractions are equivalent using
	Denominators are limited to 2, 3, 4, 6, or 8.	Denominators are limited to 2, 4, or 8.	fraction between 0 and 1 without a model given.	fraction models or number lines.
			Denominators are limited to 3 or 6.	
	Does not include whole number equivalence. See			Creates fraction models or number lines that
	3.NF.A.3c.			represent equivalent fractions between 0 and 1.
				Denominators are limited to 2, 3, 4, 6, or 8. May
				include answering questions about the creation of the
				model.
3.NF.A.3c Express whole numbers as fractions, and	Determines whether two given fractions representing		Determines a whole number equivalent to a fraction	Determines the fraction in the form $a/b$ equivalent to
recognize fractions that are equivalent to whole	whole numbers are equivalent based on a given	equivalent to 1 without a fraction model or number	or a fraction equivalent to a whole number without a	a whole number represented as $c/d$ without a model.
numbers. Examples: express 3 in the form 3 = 3/1;	fraction model or number line for both fractions.	line.	model.	
recognize that $6/1 = 6$ ; and locate $4/4$ and 1 at the				Denominators are limited to 2, 3, 4, 6, and 8.
same point of a number line diagram.	Determines that a fraction in the form $b/b$ is	Determines the whole number equivalent to a fraction	Determines the fraction in the form $a/b$ equivalent to	
	equivalent to 1 given a fraction model or number line.	in the form $a/b$ given a fraction model or number line	a whole number represented as $c/d$ given a fraction	
		for the fraction.	model or number line for $c/d$ .	
	Denominators are limited to 2, 3, 4, 6 and 8.			
		Determines the fraction in the form $a/b$ equivalent to	Denominators are limited to 2, 3, 4, 6, and 8.	
		whole numbers other than 1 given a fraction model or		
		number line for the whole number.		
		Denominators are limited to 2, 3, 4, 6 and 8.		

2 NE A 2d Commons two frontions with the same	I lead oursely le to accessore tour frontiers with the come	l less a mah ala ta a amanana tuya finantiana with the anno	I lead outside to a server to the first time with the same	Lland ay wash alo to a company to you from the company the company
3.NF.A.3d Compare two fractions with the same	Uses symbols to compare two fractions with the same	Uses symbols to compare two fractions with the same	·	Uses symbols to compare two fractions with the same
numerator or the same denominator by reasoning	denominator given a fraction model or number line.	denominator without a fraction model or number line.		numerator but different denominators without a
about their size. Recognize that comparisons are valid	Fractions are less than or equal to 1.	Fractions are less than or equal to 1.		fraction model or number line. One fraction is greater
only when the two fractions refer to the same whole.			or equal to 1.	than 1.
Record the results of comparisons with the symbols >,	Orders three or more fractions with the same	Uses symbols to compare two fractions with the same		
=, or <, and justify the conclusions, e.g., by using a	denominator given a fraction model or number line.	denominator given a fraction model or number line.	Uses symbols to compare two fractions with the same	
visual fraction model.	Fractions are less than or equal to 1.	One fraction is greater than 1.	numerator but different denominators given a fraction	
			model or number line. One fraction is greater than 1.	fraction model or number line. At least one fraction is
	•	Uses symbols to compare two fractions with the same		greater than 1.
	must be written as b/b.	numerator but different denominators given a fraction		
		model or number line. Fractions are less than or equal		Explains whether a fraction comparison involving two
	Ordering fractions includes using "least" and	to 1.		fractions with either the same numerator or
	"greatest" terminology and may or may not include		or equal to 1.	denominator is valid using fraction models or number
	symbols.	Orders three or more fractions with the same		lines. Includes cases where the fractions may not refer
		denominator without a fraction model or number line.		to the same whole.
	Denominators are limited to 2, 3, 4, 6 and 8.	Fractions are less than or equal to 1.	numerator but different denominators given a fraction	
			model or number line. At least one fractions is greater	S S
		Orders three or more fractions with the same	than 1.	"greatest" terminology and may or may not include
		denominator given a fraction model or number line. At		symbols.
		least one fraction is greater than 1.	Orders three or more fractions with the same	
			denominator without a fraction model or number line.	Denominators are limited to 2, 3, 4, 6 and 8.
		Orders three or more fractions with the same	At least one fraction is greater than 1.	
		numerator but different denominators given a fraction		Fractions refer to the same whole. Fractions equal to 1
		model or number line. Fractions are less than or equal		must be written as $b/b$ . Fractions greater than 1 are
		to 1.		represented as a/b and not as a mixed number.
				Denominators are limited to 2, 3, 4, 6 and 8.
3.NF.A.3d Continued		Ordering fractions includes using "least" and	Ordering fractions includes using "least" and	· · · ·
S.NF.A.Su Continued				
		"greatest" terminology and may or may not include symbols.	"greatest" terminology and may or may not include symbols.	
		symbols.	symbols.	
		Fractions refer to the same whole Fractions equal to 1	Fractions refer to the same whole. Fractions equal to 1	
		•	must be written as $b/b$ . Fractions greater than 1 are	
		represented as a/b and not as a mixed number.	represented as $a/b$ and not as a mixed number.	
		represented as ay a una not as a mixed number.	represented as ay b and not as a mixed namber.	
		Denominators are limited to 2, 3, 4, 6 and 8.	Denominators are limited to 2, 3, 4, 6 and 8.	
		2 c. c	2	
Measurement and Data (MD)				
3.MD.A Solve problems involving measurement and				
estimation of intervals of time, liquid volumes, and				
masses of objects.				

3.MD.A.1 Tell and write time to the nearest minute	Identifies and writes time to the nearest minute from	Determines time intervals in minutes within an hour	Solves one- and two-step word problems involving	Solves one- and two-step word problems involving
and measure time intervals in minutes. Solve word	analog clocks.	without visual supports provided.	addition and subtraction of time intervals in minutes	addition and subtraction of time intervals in minutes
problems involving addition and subtraction of time			within an hour without visual supports provided.	that cross an hour without visual supports provided.
intervals in minutes, e.g., by representing the problem	Determines time intervals in minutes within an hour	Solves one- and two-step word problems involving	Includes determining start or end times from given	Includes determining start or end times from given
on a number line diagram.	with visual supports provided such as a clock face or	addition and subtraction of time intervals in minutes	information.	information.
	number line.	within an hour with visual supports provided, such as		
		an analog clock face or number line. Includes	Solves one- and two-step word problems involving	
	See 2.MD.C.7 for time to the nearest 5 minutes.	determining start or end times from given	addition and subtraction of time intervals in minutes	
		information.	that cross an hour with visual supports provided, such	
			as an analog clock face or number line. Includes	
			determining start or end times from given	
			information.	
3.MD.A.2 Measure and estimate liquid volumes and	Measures liquid volumes and masses given a model	Estimates liquid volumes and masses given a model	Solves one-step addition or subtraction word	Creates a one-step addition or subtraction word
masses of objects using standard units of grams (g),	such as a bucket with lines marking liquid volume or a	such as a bucket with lines marking liquid volume or a	problems with and without regrouping involving	problem with or without regrouping involving masses
kilograms (kg), and liters (I). Add, subtract, multiply, or	dial measurement scale.	dial measurement scale.	masses or volumes given in the same unit without	or volumes given in the same unit.
divide to solve one-step word problems involving			visual supports provided.	
masses or volumes that are given in the same units,	Solves one-step addition or subtraction word	Estimates liquid volumes and masses of everyday		
e.g., by using drawings (such as a beaker with a	problems without regrouping involving masses or	objects.	Solves one-step multiplication or division word	
measurement scale) to represent the problem.	volumes that are given in the same units with visual		problems involving masses or volumes that are given	
	supports provided.	Solves one-step addition or subtraction word	in the same units without supports provided.	
		problems with regrouping involving masses or		
	Units are limited to grams, kilograms and liters.	volumes that are given in the same units with visual supports provided.	Units are limited to grams, kilograms, and liters.	
			Multiplication and division within $10 \times 10$ .	
		Solves one-step multiplication or division word		
		problems involving masses or volumes that are given	Addition and subtraction within 1,000.	
		in the same units with visual supports provided.		
		Units are limited to grams, kilograms, and liters.		
		Multiplication and division within $10 \times 10$ .		
		Addition and subtraction within 1,000.		

3.MD.B.3 Draw a scaled picture graph and a scaled	Completes a scaled picture graph to represent a data	Completes a scaled picture graph to represent a data	Creates a scaled picture graph to represent a data set	Creates a scaled picture graph to represent a data set
bar graph to represent a data set with several	set with three or more categories including those with	set with three or more categories including those with	with three or more categories including those with	with three or more categories including those with
categories, within cultural contexts including those of	Montana American Indian cultural contexts when	Montana American Indian cultural contexts when	Montana American Indian cultural contexts using	Montana American Indian cultural contexts using at
Montana American Indians. Solve one- and two-step	given a partially completed graph with whole icons.	given a partially completed graph using at least one	whole icons.	least one half-icon.
"how many more" and "how many less" problems		half-icon.		
using information presented in scaled bar graphs. For	Completes a scaled bar graph to represent a data set		Creates a scaled bar graph to represent a data set with	Creates a scaled bar graph to represent a data set with
example, draw a bar graph in which each square in the	with three or more categories including those with	Completes a scaled bar graph to represent a data set	three or more categories including those with	three or more categories including those with
bar graph might represent five pets.	Montana American Indian cultural contexts given a	with three or more categories including those with	Montana American Indian cultural contexts with all	Montana American Indian cultural contexts with at
	partially completed graph with all bars stopping at a	Montana American Indian cultural contexts given a	bars stopping at a scale line.	least one bar stopping halfway between scale lines.
	scale line.	partially completed graph with at least one bar		
		stopping halfway between scale lines.	Identifies a scaled picture graph or scaled bar graph	Analyzes scaled picture graphs and scaled bar graphs
	Scales are limited to 2, 3, 4, 5 and 10.		with three or more categories to represent a given	with three or more categories including those with
		Solves one-step "how many more" and "how many	data set including those with Montana American	Montana American Indian cultural contexts in relation
	See 1.MD.C.4 and 2.MD.D.10 for bar graphs or picture	less" problems using information in a scaled picture	Indian cultural contexts. Includes answering questions	to their corresponding data (e.g., explains an error in
	graphs with a scale of 1.	graph or scaled bar graph with three or more	about steps in creating the graphs.	how a bar graph was created given a data set and a
		categories.		bar graph that incorrectly represents the data).
			Solves two-step "how many more" and "how many	
		Scales are limited to 2, 3, 4, 5 and 10.	less" problems using information in a scaled picture	Analyzes statements about quantity differences based
			graph or scaled bar graph with three or more	on data in a scaled picture graph or scaled bar graph
		Multiplication and division within 10 × 10.	categories.	with three or more categories including those with
				Montana American Indian cultural contexts.
		Addition and subtraction within 1,000.	Solves problems about missing information related to	
			quantity differences in data given a scaled picture	Scales are limited to 2, 3, 4, 5 and 10.
			graph or scaled bar graph (e.g., given the total	
			quantity and a bar graph with three of the four	Multiplication and division within 10 × 10.
			categories represented, determine the quantity of the	
			fourth category).	Addition and subtraction within 1,000.
			Scales are limited to 2, 3, 4, 5 and 10.	
			Multiplication and division within $10 \times 10$ .	
3.MD.B.3 Continued			Scales are limited to 2, 3, 4, 5 and 10.	
			Multiplication and division within $10 \times 10$ .	
			Addition and subtraction within 1,000.	

3.MD.B.4 Generate measurement data by measuring	Measures the length of objects to the nearest half inch	Measures the length of objects to the nearest quarter	Measures the length of objects to the nearest quarter	Measures the length of objects to the nearest half or
lengths using rulers marked with halves and fourths of	when the ruler is shown and the object is aligned with	inch when the ruler is shown and the object is aligned	inch using a ruler not already aligned to the object.	quarter inch when the ruler is shown and the object is
an inch. Show the data by making a line plot where	0 on the ruler.	with 0 on the ruler.		not aligned with 0 on the ruler.
the horizontal scale is marked off in appropriate units,			Creates a line plot to represent a given data set	
i.e. whole numbers, halves, or quarters.	Completes a line plot to represent a data set	Measures the length of objects to the nearest half inch	measured to the nearest half or quarter inch.	Measures the length of objects to the nearest half or
	measured to the nearest half inch given a partially	using a ruler not already aligned to the object.		quarter and creates a line plot to represent the data.
	completed line plot with a scale of one half.		Identifies a line plot that represents a data set	
		Identifies a line plot that represents a given data set	obtained by measuring objects to the nearest half or	Analyzes line plots with a scale of one half or one
	See 2.MD.C.9 for measuring objects to the nearest	measured to the nearest half or quarter inch. Includes	quarter inch. Includes answering questions about	fourth inch in relation to their corresponding data
	whole inch and creating lines plots with a scale in	answering questions about steps in creating the line	steps in creating the line plot.	(e.g., explains an error in how a line plot with a scale
	whole inches.	plot.		of one fourth was created given a data set and a line
			Line plots may or may not be labeled with common	plot that incorrectly represents the data).
		Completes a line plot for data measured to the nearest	denominators.	
		quarter inch given a partially completed plot with a		Line plots may or may not be labeled with common
		scale of one fourth.		denominators.
		Line plots may or may not be labeled with common		
		denominators.		
to addition.				
3.MD.C.5 Recognize area as an attribute of plane	Identifies unit squares (e.g., recognizes unit squares	Identifies figures divided into unit squares.		Explains how to find the area of a plane figure by
figures and understand concepts of area	are used to measure area and identifies them among		measurement and can be measured in square units.	placing unit squares on the figure without gaps or
measurement.		Places unit squares on a non-tiled rectangle with		overlaps (e.g., explains why the same size square is
		whole-number side lengths without gaps or overlaps	Places unit squares on non-tiled plane figures other	needed to cover the figure to determine the area;
	Indefinites the area of a unit square is one square unit.	to model area (e.g., show the area of the rectangle by	than rectangles without gaps or overlaps to model	explains why area of the figure is 6 unit squares).
		placing unit squares on the rectangle).	area (e.g., show the area of the figure by placing unit	
			squares on the figure).	Does not include fractional parts of a unit square.
		No exponents.		
			Does not include fractional parts of a unit square.	No exponents.
		No calculations.		
			The state of the s	Nie esteutetten
			No exponents.	No calculations.
			·	No calculations.
			No exponents.  No calculations.	ino calculations.
			·	ino calculations.
			·	ino calculations.
			·	ino calculations.
3.MD.C.5a A square with side length 1 unit, called "a	See 3.MD.C.5	See 3.MD.C.5	·	See 3.MD.C.5
3.MD.C.5a A square with side length 1 unit, called "a unit square," is said to have "one square unit" of area	See 3.MD.C.5	See 3.MD.C.5	No calculations.	
	See 3.MD.C.5	See 3.MD.C.5	No calculations.	
unit square," is said to have "one square unit" of area	See 3.MD.C.5	See 3.MD.C.5	No calculations.	

3.MD.C.5b A plane figure which can be covered without gaps or overlaps by n unit squares is said to have an area of n square units.	See 3.MD.C.5	See 3.MD.C.5	See 3.MD.C.5	See 3.MD.C.5
3.MD.C.6 Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).	None.	Determines the area of a tiled rectangle with whole- number side lengths by counting unit squares.  No exponents.  No calculations.  Does not include fractional parts of a unit square.  Units are limited to square cm, square m, square in, square ft, and improvised units.	Determines the area of tiled plane figures other than rectangles with whole-number side lengths by counting unit squares.  Determines the area of a partially tiled rectangle.  No exponents.  No calculations.  Does not include fractional parts of a unit square.  Units are limited to square cm, square m, square in, square ft, and improvised units.	Compares the areas of two different tiled plane figures with whole-number side lengths. Does not include fractional parts of a unit square.  Determines the area of a partially tiled plane figures other than rectangles with whole-number side lengths. Does not include fractional parts of a unit square.  Determines the whole-number area of a tiled rectangle with part of the rectangle covered with half-unit tiles.  No exponents.  No calculations.  Units are limited to square cm, square m, square in, square ft, and improvised units.
3.MD.C.7 Relate area to the operations of multiplication and addition.	See 3.MD.C.7a - 3.MD.C.7d	See 3.MD.C.7a - 3.MD.C.7d	See 3.MD.C.7a - 3.MD.C.7d	See 3.MD.C.7a - 3.MD.C.7d
3.MD.C.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.	Determines a repeated addition expression or equation that represent the area of a tiled rectangle.  Determines or creates a tiled rectangle with wholenumber side lengths given the area represented as a repeated addition expression or equation.  No exponents.  Units are limited to square cm, square m, square in, square ft, and improvised units.	Determines a multiplication expression or equation that represent the area of a tiled rectangle.  Determines or creates a tiled rectangle with wholenumber side lengths given the area represented as a multiplication expression or equation.  Multiplication within 10 × 10.  No exponents.  Units are limited to square cm, square m, square in, square ft, and improvised units.	Shows or explains that the area of a rectangle with whole-number side lengths is the same as would be found by multiplying the side lengths.  Multiplication within 10 × 10.  No exponents.  Units are limited to square cm, square m, square in, square ft, and improvised units.	Analyzes statements about finding the area of rectangles with unit squares (e.g., determines and explains an error when finding the area).  Multiplication within 10 × 10.  No exponents.  Units are limited to square cm, square m, square in, square ft, and improvised units.

			T	T
3.MD.C.7b Multiply side lengths to find areas of	None.	Determines the area of a non-tiled rectangle with	Determines the area of a non-tiled rectangle with	Solves two- or three-step real-world or mathematical
rectangles with whole-number side lengths in the		whole number side lengths in real-world and	whole number side lengths in real-world and	problems involving the area of a rectangle with or
context of solving real-world and mathematical		mathematical problems with a visual.	mathematical problems without a visual.	without a visual.
problems and represent whole-number products as				
rectangular areas in mathematical reasoning.		Multiplication within 10 × 10.	S	Multiplication and division within 10 × 10.
			whole-number side lengths that results in a given area	
		No exponents.	in a real-world or mathematical problem.	Addition and subtraction within 1,000.
		Units are limited to square cm, square m, square in,	Multiplication within 10 × 10.	No exponents.
		square ft, and improvised units.		
			No exponents.	Units are limited to square cm, square m, square in,
				square ft, and improvised units.
			Units are limited to square cm, square m, square in,	
			square ft, and improvised units.	
3.MD.C.7c Use tiling to show in a concrete case that	None.	Given a tiled rectangle with whole-number side	Given a tiled rectangle with whole-number side	Determines an area model to represent a numerical
the area of a rectangle with whole-number side		lengths, determines the area of the new rectangle		expression that can be evaluated using the distributive
lengths a and b + c is the sum of a $\times$ b and a $\times$ c. Use		after one side length is lengthened by a whole-number		property (e.g., given 4 x (3 + 2), create an area model
area models to represent the distributive property in		unit.	lengthened by a whole-number unit.	to represent the value of the expression).
mathematical reasoning.				
		Multiplication within $10 \times 10$ .	Multiplication within 10 × 10.	Multiplication within 10 × 10.
		No exponents.	No exponents.	No exponents.
		Units are limited to square cm, square m, square in,	Units are limited to square cm, square m, square in,	Units are limited to square cm, square m, square in,
		square ft, and improvised units.	square ft, and improvised units.	square ft, and improvised units.
		- 4		
2 MD C 7d Passagniza area as additive Find areas of	Depresents the area of composite restilinear figures as	Depresents the area of a non everlanning rectangle as	Colves real world problems including these with	Creates a composite restilinear figure with a given
3.MD.C.7d Recognize area as additive. Find areas of	Represents the area of composite rectilinear figures as			Creates a composite rectilinear figure with a given
rectilinear figures by decomposing them into non-		•	Montana American Indian cultural context involving	area.
		figure and the area of other non-overlapping	composite rectilinear figures that can be solved with	Analyzes statements about finding the area of
non-overlapping parts, applying this technique to solve real-world problems, including those of Montana	area of one rectangle is 25 square units and the area	rectangles without using specific measurements.	multiplication, addition, and subtraction given a diagram.	Analyzes statements about finding the area of composite rectilinear figures (e.g., determines and
	units, determine that the composite area is 25 + 30	Addition and subtraction within 1,000.	ulagranii.	explains an error when finding the area).
	square units).	Addition and subtraction within 1,000.	Explains how to find the area of composite rectilinear	explains an error when infamig the area).
	square units).	No exponents.	figures.	Multiplication and division within $10 \times 10$ .
	Addition and subtraction within 1,000.	по ехропента.	ingures.	ividitiplication and division within 10 × 10.
	Addition and Subtraction within 1,000.	Units are limited to square cm, square m, square in,	Multiplication and division within $10 \times 10$ .	Addition and subtraction within 1,000.
	No exponents.	square ft, and improvised units.	With the content of t	Addition and Subtraction Within 1,000.
			Addition and subtraction within 1,000.	No exponents.
	Units are limited to square cm, square m, square in,		2,000	
	square ft, and improvised units.		No exponents.	Units are limited to square cm, square m, square in,
	, , , , , , , , , , , , , , , , , , ,			square ft, and improvised units.
			Units are limited to square cm, square m, square in,	[ · · · · ·
			square ft, and improvised units.	
			<u> </u>	

2 MD D. Coometric measurements recognize								
3.MD.D Geometric measurement: recognize perimeter as an attribute of plane figures and								
distinguish between linear and area measures.								
distinguish between inical and area measures.								
3.MD.D.8 Solve real-world and mathematical	Determines the perimeter of polygons in real-world	Determines the perimeter of polygons in real-world	Determines the length of an unknown side of a	Determines the lengths of unknown sides of a				
problems involving perimeters of polygons, including	and mathematical problems when given a diagram	and mathematical problems given all sides lengths	polygon in real-world and mathematical problems	rectangle in real-world and mathematical problems				
finding the perimeter given the side	with all sides labeled.	without a diagram.	given the perimeter and all remaining sides without a	given the perimeter and one side length with or				
lengths, finding an unknown side length, and			diagram.	without a diagram.				
exhibiting rectangles with the same perimeter and	Units are limited to cm, m, in, ft, units.	Determines the length of an unknown side of a						
different areas or with the same area and different		polygon in real-world and mathematical problems	Determines the perimeter of rectangles in real-world	Draws or creates a rectangle that has the same				
perimeters.	All measures are whole numbers.	given the perimeter and a diagram with all remaining	and mathematical problems given the length and	perimeter and a different area or the same area and a				
		sides labeled.	width without a diagram.	different perimeter than a given rectangle in real-				
	Multiplication and division within $10 \times 10$ .			world and mathematical problems.				
		Determines the perimeter of rectangles in real-world	Identifies rectangles that have the same perimeter but	:				
	Addition and subtraction within 1,000.	and mathematical problems given a diagram with	different areas in real-world and mathematical	Units are limited to cm, m, in, ft, units.				
		only the length and width labeled.	problems.					
				All measures are whole numbers.				
		Compares the perimeters of polygons in real-world	Identifies rectangles that have the same area but					
		and mathematical problems given all side lengths.	different perimeters in real-world and mathematical	Multiplication and division within $10 \times 10$ .				
			problems.					
		Units are limited to cm, m, in, ft, units.		Addition and subtraction within 1,000.				
			Units are limited to cm, m, in, ft, units.					
		All measures are whole numbers.						
			All measures are whole numbers.					
		Multiplication and division within $10 \times 10$ .						
			Multiplication and division within $10 \times 10$ .					
		Addition and subtraction within 1,000.						
			Addition and subtraction within 1,000.					

Geometry (G)

3.GA.A Reason with shapes and their attributes.

3.G.A.1 Understand that shapes in different	None.	Determines rhombuses, rectangles, and squares out of	Corts rhombuses restangles and squares out of other	Evaluing the relationship among rhombuses
·				
categories (e.g., rhombuses, rectangles, and others)		other quadrilaterals.	quadrilaterals based on shared attributes. May include	rectangles, and squares.
may share attributes (e.g., having four	See 2.G.A.1 for identifying quadrilaterals.		justifying the sorting.	
sides) and that the shared attributes can define a		Determines shared attributes among rhombuses,		Students are not required to use or know the terms
larger category (e.g., quadrilaterals). Recognize		rectangles, and squares.	Draws or creates examples of rhombuses, rectangles,	perpendicular, parallel, parallelogram, or trapezoid.
rhombuses, rectangles, and squares as examples of			and squares based on a given description.	
quadrilaterals, and draw examples of quadrilaterals		Students are not required to use or know the terms		
that do not belong to any of these subcategories.		perpendicular, parallel, parallelogram, or trapezoid.	Draws or creates examples of quadrilaterals that are	
			not rhombuses, rectangles, and squares based on a	
			given description.	
			Students are not required to use or know the terms	
			perpendicular, parallel, parallelogram, or trapezoid.	
3.G.A.2 Partition shapes into parts with equal areas.	Partitions circles and rectangles into six or eight equal	Determines the unit fraction that represents the area	Partitions a shape to represent a given unit fraction.	Explains how to create an area model to represent a
Express the area of each part as a unit fraction of the	parts and describes the parts using the words such as			given unit fraction. (e.g., describe how a rectangle can
whole. For example, partition a	sixths, eighths, a sixth of and an eighth of.	. , , , , , , , , , , , , , , , , , , ,	1/8 the area of the shape).	be partitioned so that each part has an area of 1/8 the
		Area terminology is used.	1/8 the area of the shape).	area of the rectangle.)
shape into four parts with equal area, and describe the		<b>.</b>	A man de marin a la marin a canad	area of the rectangle.)
area of each part as 1/4 of the area of the shape.	See 2.G.A.3 for two, three and four equal parts.		Area terminology is used.	
		Shapes are divided but not shaded.		Identify true statements about how a shape is
			Shapes are divided but not shaded.	partitioned without a visual.
		Denominators are limited to 2, 3, 4, 6 and 8.		
			Denominators are limited to 2, 3, 4, 6 and 8.	Denominators are limited to 2, 3, 4, 6 and 8.