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Grade 5 Montana Standards	Novice	Partially Proficient	Proficient	Advanced
	meet grade-level expectations in this subject and needs considerable support to develop the required knowledge, skills, and practices necessary for future coursework in this content area.	A student who performed at this level partially met grade-level expectations in this subject and needs support to develop the required knowledge, skills, and practices necessary for future coursework in this content area. A student at this level:	1.	grade-level expectations. The student has
	A student at this level:			A student at this level:
Operations and Algebraic Thinking (OA)				
5.OA.A Write and interpret numerical expressions.				
5.OA.A.1 Use parentheses, brackets, or braces in numerical expressions and evaluate expressions with these symbols.	symbols that use only addition and subtraction. Evaluates two-step numerical expressions with grouping symbols that use only multiplication and division.	symbols that use addition or subtraction and multiplication or division (e.g., evaluates 20 + $(6 \div 2)$). Identifies two-step numerical expressions with grouping	symbols that use at least three different operations.	Analyzes evaluations of numerical expressions (e.g., determines and explains an error in evaluating a numerical expression). Inserts grouping into a numerical expression to create a true expression.
	Identifies two-step numerical expressions with grouping symbols that use only addition and subtraction that represent a given value (e.g., given 10 identifies $(50-45)+5$). Identifies two-step numerical expressions with grouping symbols that use only multiplication and division that represent a given value [e.g., given 4 identifies $24 \div (2 \times 3)$].	division that represent a given value (e.g., given 20 identifies $(2 \times 5) + 10$). Evaluates two or more two-step numerical expressions with grouping symbols that use addition or subtraction and multiplication or division to compare the value (e.g., evaluates $(2 \times 5) + 10$ and identifies a numerical expression with the same value).	5)]. Evaluates two or more multi-step numerical expressions with grouping symbols that use at least three different operations to compare the values (e.g., evaluates $40 \div 2 + (2 \times 5)$ and	Expressions do not exceed one level of grouping which can be represented by parentheses, braces, or brackets.
5.OA.A.2 Write simple expressions that record calculations with numbers and interpret numerical expressions without evaluating them. For example, express the calculation "add 8 and 7, then multiply by 2" as 2 × (8 + 7). Recognize that 3 × (18932 + 921) is three times as large as 18932 + 921, without having to calculate the indicated sum or product.	See 4.OA.A.1 for determining expressions to represent multiplicative comparisons.	two different operations with or without grouping symbols given in numeric form and vice versa (e.g., determines $8 + (2 \times 5)$ is represented by the calculation "8 more than the product of 2 and 5").	_	•
E OA B. Analyzo nattorns and relationships				
given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns and graph the ordered pairs on a coordinate	different starting numbers. Limited to whole numbers. See 4.OA.B.5 for generating one pattern from one rule.	Determines ordered pairs consisting of corresponding terms of two given numerical patterns. Limited to whole numbers.	-	Explains the relationship between corresponding terms of two given numerical patterns. Patterns may be presented as function tables, input/output tables, or as a graph of points plotted in the first quadrant. Limited to whole numbers. Limited to the first quadrant.
Number and Operations in Base Ten (NBT) 5.NBT.A Understand the place value system.				

digit in one place represents 10 times as much as it	place represents 10 times as much as it represents in the place to its right given visual supports. Context may include determining equivalent measurements within the metric system of measurement.	place represents 10 times as much as it represents in the place to its right without visual supports. Recognizes that in multi-digit whole and decimal numbers a	place to its left without visual supports.	Generates a multi-digit whole or decimal number up to 1,000,000 where the digit in one place represents 1/10 of what it represents in the place to its left. Explains why in a multi-digit whole or decimal number up to 1,000,000 the digit in one place represents 1/10 of what it represents in the place to its left. Context may include determining equivalent measurements within the metric system of measurement.
the product when multiplying a number by powers of 10, and explain patterns in the placement of the	Continues a given pattern involving multiplying whole numbers by 10. Determines equivalent expressions for 10, 100, and 1,000 using exponents. Context may include determining equivalent measurements within the metric system of measurement.	Determines equivalent expressions for 10,000, 100,000 and 1,000,000 using exponents. Context may include determining equivalent measurements within the metric system of measurement.	× 10^3).	
5.NBT.A.3 Read, write, and compare decimals to thousandths.	See 5.NBT.A.3a - 5.NBT.A.3b	See 5.NBT.A.3a - 5.NBT.A.3b	See 5.NBT.A.3a - 5.NBT.A.3b	See 5.NBT.A.3a - 5.NBT.A.3b
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 100 $		number to the tenths, hundredths, or thousandths given the numeric form. Determines the word form for a decimal number to the tenths, hundredths, or thousandths given the expanded form. Numbers are within 1,000,000.	Determines the numeric form or expanded form for a decimal	$(1/10) + 9 \times (1/100) + 2 \times (1/1000)$.
5.NBT.A.3b Compare two decimals to thousandths based on meanings of the digits in each place using >, =, and < symbols to record the results of comparisons.	Orders three or four numbers when at least one number is a decimal up to the tenths place. Ordering numbers includes using "least" and "greatest"	place. At least one number must be to the hundredths place. Orders three or four numbers when at least one number is a decimal up to the hundredths place. Ordering numbers includes using "least" and "greatest" terminology and may or may not include symbols. Numbers are within 1,000,000.	Uses symbols to compare two decimals when one number is a decimal number to the thousandths place and the other is a decimal to the tenths or hundredths place. Orders three or four numbers when at least one number is a decimal to the thousandths place and another number is a decimal to the tenths or hundredths place. Ordering numbers includes using "least" and "greatest" terminology and may or may not include symbols. Numbers are within 1,000,000.	Analyzes comparisons between two numbers up to 1,000,000 where at least one value is a decimal. Numbers are within 1,000,000.
decimals to any place.	Rounds decimals to the nearest whole number. Numbers are between 0.01 and 1,000,000.		Rounds decimals to the nearest hundredth. Numbers are between 0.01 and 1,000,000.	Justifies the rounding of decimal to the nearest whole number, tenth, or hundredth. Numbers are between 0.001 and 1,000,000.
numbers and with decimals to hundredths.				

5.NBT.B.5 Fluently multiply multi-digit whole numbers using the standard algorithm.	Multiplies five-digit numbers by one-digit numbers using the standard algorithm.	Multiplies three- or four-digit numbers by two-digit numbers using the standard algorithm.	Multiplies three-digit numbers by three-digit numbers using the standard algorithm.	Explains/analyzes use of the standard algorithm when used to multiply three- or four-digit numbers by a two-digit numbers.
	May include a context of determining equivalent measurements within a system of measurement.		May include a context of determining equivalent measurements within a system of measurement.	Explains/analyzes use of the standard algorithm when used to multiply three-digit numbers by three-digit numbers.
	See 4.NBT.B.5 for multiplying two-, three-, or four-digit numbers by a one-digit number and for multiplying two two-digit numbers.			
5.NBT.B.6 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.		measurements within a system of measurement.	whole number. Explains/analyzes strategies based on models used to find the whole number quotient of a whole number up to four-digits and a two-digit divisor.	Explains/analyzes strategies based on place value, the properties of operations, and the relationship between multiplication and division used to find the whole number quotient of a whole number up to four-digits and a two-digit divisor. May include a context of determining equivalent measurements within a system of measurement.
5.NBT.B.7 Add, subtract, multiply, and divide decimals to hundredths using concrete models or drawings within cultural contexts, including those of Montana American Indians, and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	Adds or subtracts decimals up to the hundredths when given a visual model. Multiplies or divides decimals to the tenths when given a visual model. Factors are limited to a total of six digits, not including a zero in the ones place of a decimal less than 1. Dividends are limited to four digits and divisors are limited to two digits.	wisual model. Multiplies or divides decimals up to the hundredths by a multiple of 10 in the range of 10 to 90. Solves one-step word problems including those with Montana American Indian cultural context involving adding and subtracting decimals up to the hundredths. Solves one-step word problems including those with Montana American Indian cultural context involving multiplying or dividing decimals up to the hundredths by a multiple of 10 in the range of 10 to 90. Factors are limited to a total of six digits, not including a zero in the ones place of a decimal less than 1. Dividends are limited to four digits and divisors are limited to two digits. Context may include determining equivalent measurements within a system of measurement.	strategies based on place value, properties of operations, or relationships between operations. Multiplies or divides a decimal up to the hundredths by a whole number other than a multiple of 10. Solves one-step word problems including those with Montana American Indian cultural context involving multiplying or dividing two decimals to the tenths. Solves one-step word problems including those with Montana American Indian cultural context involving multiplying or dividing a decimal up to the hundredths by whole number other than a multiple of 10. Factors are limited to a total of six digits, not including a zero in the ones place of a decimal less than 1. Dividends are limited to four digits and divisors are limited to two digits. Context may include determining equivalent measurements within a system of measurement.	Knowledge of order of operations among addition, subtraction, multiplication, and division is not required. Analyzes/explains addition, subtraction, multiplication, or division of decimals up to the hundredths using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. The standard algorithm is not required. Factors are limited to a total of six digits, not including a zero in
Number and Operations - Fractions (NF) 5.NF.A Use equivalent fractions as a strategy to add and subtract fractions				
and subtract fractions. 5.NF.A.1 Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or	Adds and subtracts fractions (including mixed numbers) with unlike denominators where one denominator is a multiple of the other denominator without regrouping.	Adds and subtracts fractions (including mixed numbers) with unlike denominators where one denominator is a multiple of the other denominator with regrouping.	unlike denominators where one denominator is not a multiple of the other denominator with or without regrouping.	Analyzes addition and subtraction of fractions (including mixed numbers) with unlike denominators (e.g., determines and explains errors in the subtraction of a fraction from a mixed number).

· · · · · · · · · · · · · · · · · · ·	Identifies an expression, equation, or model that represents a one-step word problem involving the addition or subtraction	Solves one-or two-step word problems involving addition and subtraction of fractions with unlike denominators with or	Solves one-or two-step word problems involving addition and subtraction of fractions with unlike denominators with or	Analyzes strategies used to solve one- or two- step word problems involving addition and subtraction of fractions with
ncluding cases of unlike denominators, e.g., by using		without regrouping given a model.	without regrouping without a model.	unlike denominators with or without regrouping. Includes
isual fraction models or equations to represent the	of tractions with annice actioninators.	Without regrouping given a model.	Without regrouping without a model.	evaluating the reasonableness of a solution to the problem.
	See. 4.NF.B.3d for solving addition and subtraction word			evaluating the reasonableness of a solution to the problem.
of fractions to estimate mentally and assess the	problems involving fractions with like denominators.			
reasonableness of answers. For example, recognize				
an incorrect result $2/5 + 1/2 = 3/7$, by observing that				
3/7 < 1/2.				
5.NF.B Apply and extend previous understandings of				
multiplication and division to multiply and divide				
fractions.				
5.NF.B.3 Interpret a fraction as division of the	Recognizes a fraction a/b can be represented as $a \div b$.	Solves word problems involving the division of whole numbers	Solves word problems involving the division of whole numbers	Solves word problems involving the division of whole numbe
numerator by the denominator $(a/b = a \div b)$. Solve		with answers in the form of a fraction less than 1 given a	with answers in the form of a fraction less than 1 without a	with answers in the form of an improper fraction or mixed
vord problems involving division of whole		model.	model.	number without a model.
		iniodei.	iniodei.	number without a model.
numbers leading to answers in the form of fractions				
or mixed numbers, e.g., by using visual fraction				
models or equations to represent the problem. For				
example, interpret 3/4 as the result of dividing 3 by 4,				
noting that 3/4 multiplied by 4 equals 3 and that				
when 3 wholes are shared equally among 4 people				
each person has a share of size 3/4. If 9 people want				
to share a 50-pound sack of rice equally by weight,				
how many pounds of rice should each person get?				
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Between what two whole numbers does your answer				
lie?				
5.NF.B.4 Apply and extend previous understandings	See 5.NF.B.4a - 5.NF.B.4b.	See 5.NF.B.4a - 5.NF.B.4b.	See 5.NF.B.4a - 5.NF.B.4b.	See 5.NF.B.4a - 5.NF.B.4b.
of multiplication to multiply a fraction or whole	300 3.W. D.40 3.W. D.40.	3.00 3.10 .B.40 3.10 .B.40.	3.00 3.10 .B.40 3.10 .B.40.	3.141.b.4a 3.141.b.4b.
• • •				
number by a fraction.				
5.NF.B.4a Interpret the product $(a/b) \times a$ as parts of	Determines the model that represents a product in the form	Determines equivalent expressions for multiplying a fraction	Multiplies a fraction by a fraction.	Creates real-world context including those with Montana
	$(a/b) \times q$ as a parts of a partition of q into b equal parts (e.g.,			American Indian cultural context that represent a product in
	identifies 9 squares each $1/3$ shaded represent $1/3 \times 9$).	identifies $2/3 \times 4/1$ and $(2 \times 4)/(3 \times 1)$ as equivalent products).	Determines an expression or equation in the form $(a/b) \times q$	the form $(a/b) \times q$ as parts of a partition of q into b equal
example, use a visual fraction model to show $(2/3) \times 4$		identifies 2/3 x 4/1 and (2 x 4)/(3 x 1) as equivalent products).	or $a \times q \div b$ that represents a given a real-world context	parts.
				parts.
= 8/3, and create a story context for this equation	ĺ		including those with Montana American Indian cultural	
within cultural contexts, including those of Montana			context.	
within cultural contexts, including those of Montana American Indians. Do the same with $(2/3) \times (4/5) =$			context.	
-			context.	
American Indians. Do the same with $(2/3) \times (4/5) =$			context.	
American Indians. Do the same with $(2/3) \times (4/5) = 8/15$. (In general, $(a/b) \times (c/d) = ac/bd$.)				
American Indians. Do the same with $(2/3) \times (4/5) = 8/15$. (In general, $(a/b) \times (c/d) = ac/bd$.) 5.NF.B.4b Find the area of a rectangle with fractional	None.	Determines the tiled rectangle that represents given fractional	Determines the area of a rectangle by multiplying fractional	Determines the area of a rectangle by multiplying fractional
American Indians. Do the same with $(2/3) \times (4/5) = 8/15$. (In general, $(a/b) \times (c/d) = ac/bd$.) 5.NF.B.4b Find the area of a rectangle with fractional	None.	Determines the tiled rectangle that represents given fractional dimensions of a rectangle (e.g., given a rectangular sticker has	Determines the area of a rectangle by multiplying fractional	Determines the area of a rectangle by multiplying fractional side lengths without a given tiled rectangle.
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The Continue of the continue o	5.NF.B.5a Compare the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.	See 5.NF.B.5.	See 5.NF.B.5.	See 5.NF.B.5.	See 5.NF.B.5.
with protection of micros and mic	a fraction greater than 1 results in a product greater than the given number (by recognizing multiplication by whole numbers greater than 1 as a familiar case); explain why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; and relating the principle of fraction equivalence $a/b = (n \times a)/(n \times b)$ to the effect of	See 5.NF.B.5.	See 5.NF.B.5.	See 5.NF.B.5.	See 5.NF.B.5.
5.NR-8.7: Interpret division of a unit fraction by a whole number by unit fraction by a whole number given a fraction more are whole number and ompute such quotients. Including those with Montana American indian cultural context based on dividing a unit fraction by a whole number without a fraction by a whole number. Obvides a unit fraction by a whole number without a fraction by a whole number without a fraction by a whole number. Obvides a unit fraction by a whole number without a fraction by a whole number without a fraction by a whole number. Obvides a unit fraction by a whole number without a fraction by a whole number without a fraction of whole number by a unit fraction by a whole number by a unit fraction of whole number by a unit fraction of whole number by a unit fraction of whole number by a unit fraction given a fraction and compute such quotients. For example, crease a conty context without contexts including those with Montana American indian cultural context based on dividing a whole number by a unit fraction of whole number by a unit fraction given a fraction of whole number by a unit fraction given a fraction of whole number by a unit fraction given a fraction of whole number by a unit fraction given a fraction of whole number by a unit fraction given a fraction of whole number by a unit fraction given a fraction of whole number by a unit fraction given a fraction of whole number by a unit fraction given a fraction of whole number by a unit fraction given a fraction of whole number by a unit fraction given a fraction of whole number by a unit fraction given a fraction of whole number by a unit fraction given a fraction of whole number by a unit fraction by a non-zero whole number given a fraction of whole number by unit fraction by a non-zero whole number without a fraction of whole number by unit fraction by	multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem within cultural contexts,	Montana American Indian cultural context involving multiplying a whole number by a mixed number given a visual fraction model.	with Montana American Indian cultural context involving multiplying a whole number by a mixed number without a fraction model. Solves one- or two-step real-world problems including those with Montana American Indian cultural context involving multiplying fractions and mixed numbers given a visual fraction model. Represents one-or two-step real-world problems including those with Montana American Indian cultural context involving multiplying fractions and mixed numbers using a	with Montana American Indian cultural context involving multiplying fractions and mixed numbers without a model.	problems including those with Montana American Indian cultural context involving multiplying fractions and mixed numbers. Includes evaluating the reasonableness of a solution
non-zero whole number and compute such quotients. Imade. For example, create a story contects within cultural context shadout place as a story contect within cultural context shadout place as a story contect within cultural context shadout place and division of a whole number system the corresponding multiplication fact. SNF.8.7b Interpret division of a whole number by a unit fraction by a whole number by a unit fraction without a fraction model. SNF.8.7b Interpret division of a whole number by a unit fraction given a fraction model. SNF.8.7c Solve real-world problems involving division of a whole number by a unit fraction by a whole number by a unit fraction. Divides a whole number by a unit fraction indians, for 4 + (1/5), and use a visual fraction model corresponding multiplication fact. SNF.8.7c Solve real-world problems involving division of a whole number by a unit fraction without a fraction model for dividing a whole number by a unit fraction. Divides a whole number by a unit fraction without a fraction model for dividing a whole number by a unit fraction. Divides a whole number by a unit fraction without a fraction model for dividing a whole number by a unit fraction. Divides a whole number by a unit fraction without a fraction model for dividing a whole number by a unit fraction. Divides a whole number by a unit fraction without a fraction model for dividing a whole number by a unit fraction. Divides a whole number by a unit frac	of division to divide unit fractions by whole numbers	See 5.NF.B.7a - 5.NF.7c.	See 5.NF.B.7a - 5.NF.7c.	See 5.NF.B.7a - 5.NF.7c.	See 5.NF.B.7a - 5.NF.7c.
unit fraction and compute such quotients. For example, create a story context within cultural contexts, including those of Montana American Indians, for 4+ (1/5), and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that 4 ÷ (1/5) = 20 because 20 × (1/5) = 4. Since Indians, for 4+ (1/5), and use a visual fraction model for dividing a whole number by a unit fraction. Determines a fraction model for dividing a whole number by a unit fraction. Determines a fraction model for dividing a whole number by a unit fraction. Determines a fraction model for dividing a whole number by a unit fraction. Solves one-step real-world problems involving division of a unit fraction by a non-zero whole numbers by unit fraction by a non-zero whole number singular context involving division of a unit fraction by a non-zero whole number by a unit fraction by a non-zero whole number without represent the problem. For example, how much chocolate will each person get if 3 people share 1/2 lb of chocolate will each person get if 3 people share 1/2 lb of chocolate will each person get if 3 people share 1/2 lb on-zero whole number by a unit fraction given a fraction model. The first context with functural context that can be related to dividing a whole number by a unit fraction. Determines a fraction model for dividing a whole number by a unit fraction. Determines a fraction model for dividing a whole number by a unit fraction. Solves one-step real-world problems involving division of a unit fraction by a non-zero whole number without a fraction model. Solves one- and two-step real-world problems involving division of a non-zero whole number without a fraction model. Solves one- and two-step real-world problems involving division of a non-zero whole number by a unit fraction by a non-zero whole number by a unit fraction by a non-zero whole number by a unit fraction by a non-zero whole number by a unit fraction model. Solves one- and two-step real-world problems	non-zero whole number and compute such quotients. For example, create a story context within cultural contexts, including those of Montana American Indians, for $(1/3) \div 4$, and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that $(1/3) \div 4 = 1/12$ because	model. Divides a unit fraction by a whole number given the corresponding multiplication fact.	American Indian cultural context that can be related to dividing a unit fraction by a whole number. Determines a fraction model for dividing a unit fraction by a	model or corresponding multiplication fact.	American Indian cultural context based on dividing a unit
division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem. For example, how much chocolate will each person get if 3 people share 1/2 lb of chocolate equally? How many 1/3-cup servings are in 2 cups of raisins? unit fraction by a non-zero whole number given a fraction by a non-zero whole number given a fraction those with Montana American Indian cultural context involving division of a unit fraction by a non-zero whole number without involving division of a unit fraction by a non-zero whole number without involving division of a unit fraction by a non-zero whole number without a fraction model. Solves one-step real-world problems involving division of a non-zero whole number by a unit fraction by a non-zero whole number without a fraction by a non-zero whole number without involving division of a unit fraction by a non-zero whole number without a fraction by a non-zero whole number or involving division of a non-zero whole number by a unit fraction by a non-zero whole number by a unit fraction by a non-zero whole number without a fraction model. Solves one- and two-step real-world problems involving division of a non-zero whole number by a unit fraction by a non-zero whole number without a fraction model. Solves one- and two-step real-world problems involving division of a non-zero whole number by a unit fraction by a non-zero whole number without a fraction model. Solves one- and two-step real-world problems involving division of a non-zero whole number by a unit fraction by a non-zero whole number without a fraction model. Solves one- and two-step real-world problems involving division of a non-zero whole number b	unit fraction and compute such quotients. For example, create a story context within cultural contexts, including those of Montana American Indians, for $4 \div (1/5)$, and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that $4 \div (1/5) =$	model. Divides a whole number by a unit fraction given the corresponding multiplication fact.	American Indian cultural context that can be related to dividing a whole number by a unit fraction. Determines a fraction model for dividing a whole number by a	model or corresponding multiplication fact.	American Indian cultural context based on dividing a whole
Measurement and Data (MD)	division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem. For example, how much chocolate will each person get if 3 people share 1/2 lb of chocolate equally? How many 1/3-cup servings are in 2 cups of raisins?	unit fraction by a non-zero whole number given a fraction model. Solves one-step real-world problems involving division of a non-zero whole number by a unit fraction given a fraction model.	those with Montana American Indian cultural context involving division of a unit fraction by a non-zero whole number using a visual fraction model or equation. Represents one-or two-step real-world problems including those with Montana American Indian cultural context involving division of a non-zero whole number by a unit	division of a unit fraction by a non-zero whole number without a fraction model. Solves one- and two-step real-world problems involving division of a non-zero whole number by a unit fraction without	problems including those with Montana American Indian cultural context involving division of a unit fraction by a nonzero whole number or involving division of a nonzero whole number by a unit fraction. Includes evaluating the

5.MD.A.1 Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m) and use these conversions in solving multi-step, real-world problems within a cultural context, including those of Montana American Indians.	degree of change (e.g., feet to yards). May not include context. 5.MD.A.1 is assessed in isolation and as part of the domain Number and Operations in Base Ten. See 5.NBT.A.1,	unit within a system of measurement using two steps or two	those with Montana American Indian cultural context involving distances, intervals of time, liquid volumes, masses of objects, and money, involving decimals to the hundredths. Must include expressing a smaller unit in terms of a larger unit with one degree of change as one step in the process.	Solves three or more-step real-world problems including those with Montana American Indian cultural context involving distances, intervals of time, liquid volumes, masses of objects, and money, involving decimals to the hundredths and/or fractions with common denominators. Must include expressing a smaller unit in terms of a larger unit with two degrees of change as one step in the process.
5.MD.B Represent and interpret data.				
5.MD.B.2 Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade to solve problems involving information presented in line plots. For example, given different measurements of liquid in identical beakers, find the amount of liquid each beaker would contain if the total amount in all the beakers were redistributed equally.	None. See 4.MD.B.4 for creating line plots using halves, fourths and eighths.	Uses data to identify or create line plots with denominators of 2, 4, or 8. Fractions may include mixed numbers. Line plot may not be labeled with common denominators.	involving addition, subtraction, multiplication and division of fractions with unlike denominators of 2, 4, or 8. Multiplication is limited to multiplying whole numbers and whole numbers by fractions.	Analyze the creation of line plots. Analyze the solution to one- or two-step problems involving line plots. Fractions may include mixed numbers. Line plot may not be labeled with common denominators.
5.MD.C Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.				
5.MD.C.3 Recognize volume as an attribute of solid figures and understand concepts of volume measurement.		Identifies real-world measurements that are volume measurement and can be measured in cubic units. Packs unit cubes with whole-number side lengths without gaps or overlaps to model the volume of a rectangular prims (e.g., show the volume of the figure by placing cubes in the box). No calculations.	5	
5.MD.C.3a A cube with side length 1 unit, called a "unit cube," is said to have "one cubic unit" of volume, and can be used to measure volume.	See 5.MD.C.3.	See 5.MD.C.3.	See 5.MD.C.3.	See 5.MD.C.3.
5.MD.C.3b A solid figure which can be packed without gaps or overlaps using n unit cubes is said to have a volume of n cubic units.	See 5.MD.C.3.	See 5.MD.C.3.	See 5.MD.C.3.	See 5.MD.C.3.
5.MD.C.4 Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.	None.	Measures the volume of a right rectangular prism with whole- number edge lengths by counting unit cubes when all unit cubes are visible. Units are limited to cubic cm, cubic in, cubic ft, and improvised units.	Units are limited to cubic cm, cubic in, cubic ft, and improvised units.	whole-number edge lengths by counting unit cubes when not all unit cubes are visible.
5.MD.C.5 Relate volume to the operations of multiplication and addition and solve real-world and mathematical problems involving volume within cultural contexts, including those of Montana American Indians.	See 5.MD.C.5a - 5.MD.C.5c.	See 5.MD.C.5a - 5.MD.C.5c.	See 5.MD.C.5a - 5.MD.C.5c.	See 5.MD.C.5a - 5.MD.C.5c.

the base. Represent threefold whole-number products as volumes, e.g., to represent the associative property of multiplication.	number edge lengths as length × width × height given a diagram of a prism packed with unit cubes. Units are limited to cubic cm, cubic in, cubic ft, and improvised units. See 5.MD.C.3 for finding volume by packing and counting unit cubes.	number edge lengths as area of the base × height given a diagram of a prism packed with unit cubes. Represents the volume of a right rectangular prism with whole number edge lengths as length × width × height given a diagram of a prism showing only the bottom layer packed with unit cubes with the height is given. Units are limited to cubic cm, cubic in, cubic ft, and improvised units.	Determines right rectangular prisms that have the same volume based on the associative property of multiplication (e.g., identifies (5 cm × 4 cm) × 3 cm as having the same volume as 4 cm × (5 cm × 3 cm)). Can be represented in a diagram or with multiplication. Does not need to know the term associative property of multiplication. Units are limited to cubic cm, cubic in, cubic ft, and improvised units.	
5.MD.C.5b Apply the formulas $V = I \times w \times h$ and $V = b \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole number edge lengths in the context of solving real-world and mathematical problems.		without a diagram. Determines the volume of a right rectangular prism with whole-number edge lengths in real-world and mathematical	with whole-number edge lengths in real-world and mathematical problems when given the volume and the other two edge lengths or the area of a base with or without a diagram. Units are limited to cubic cm, cubic in, cubic ft, and improvised units.	volume of the first prism). Analyzes how changing one or more dimensions affects the
5.MD.C.5c Recognize volume as additive. Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this technique to solve real-world problems.	rectangular prisms with whole-number edge lengths as the sum of the volumes of its non-overlapping prisms without using specific measurements (e.g., given that the volume of one prism is 25 cubic units and the volume of another non-	volumes of composite figures made up of non-overlapping right rectangular prisms with whole-number edge lengths that can be solved with addition and subtraction given a diagram. Units are limited to cubic cm, cubic in, cubic ft, and improvised units.	Solves mathematical and real-world problems involving volumes of composite figures made up of non-overlapping right rectangular prisms with whole-number edge lengths that can be solved with given a diagram. Must include multiplication. Units are limited to cubic cm, cubic in, cubic ft, and improvised units.	Creates a composite rectilinear prism given criteria such as the volume and edge lengths.
Geometry (G)				
5.GA.A Graph points on the coordinate plane to solve real-world and mathematics problems.				
5.G.A.1 Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., <i>x</i> -axis and <i>x</i> -coordinate, <i>y</i> -axis and <i>y</i> -coordinate).	plane. Determines the <i>x</i> -coordinate, and/or <i>y</i> -coordinate within an ordered pair of the coordinate plane. Limited to whole numbers.	the horizontal distance traveled along the x -axis from the	Determines the coordinates of points plotted on the coordinate plane. Limited to whole numbers.	Graphs a point using a description of its location relative to another point shown on the coordinate plane (e.g., graphs Point S at (8, 5) given point R shown at (6, 5) on a graph and that point S is located 2 units to the right of Point R). Determines the coordinate of a point using a description of its location relative to another point (e.g., determines the coordinates of Point S are (8, 5) given point R is located at (6, 5) and that point S is located 2 units to the right of Point R). Limited to whole numbers. Limited to the first quadrant.

5.G.A.2 Represent real-world and mathematical	None.	Determines a coordinate plane that can be used to represent a		Represents and solves mathematical problems by plotting
problems by graphing points in the first quadrant of		real-world problem including those with Montana American	points on the coordinate plane with no scale breaks.	points on the coordinate plane with a scale break on at least
		Indian cultural context by identifying appropriate axis labels		one axis.
of points in the context of the situation, including		and scale(s) for the context.	Represents and solves real-world problems including those	
those found in Montana American Indian designs.	See 6.NS.C.8 for determining horizontal or vertical distances		with Montana American Indian cultural context by plotting	Represents and solves real-world problems including those
	between points.	Limited to whole numbers.	points on a coordinate plane with no scale breaks.	with Montana American Indian cultural context by plotting
				points on a coordinate plane with a scale break on at least one
		Limited to the first quadrant.	Determines points on a coordinate plane with no scale breaks	axis.
			that represent a given real-world context including those of	
			Montana American Indians.	Interprets points on a coordinate plane with a scale break on at
				least one axis in real-world problems, including those with
			Limited to whole numbers.	Montana American Indian cultural context
			Limited to the first quadrant.	Limited to whole numbers.
				Limited to the first quadrant.
5.G.B Classify two-dimensional figures into				
5.G.B.3 Understand that attributes belonging to a	Determines whether a two-dimensional figure has a given	Identifies which categories of shapes are subcategories of	Determines similarities and differences among categories and	Explains or justifies the classification of a quadrilateral or set of
category of two-dimensional figures also belong to all	property or is a member of a given category.	other categories of shapes.	subcategories of two dimensional figures (e.g., identifies that	quadrilaterals based on the properties of the shape(s) and
subcategories of that category. For example, all			squares and rhombuses each have four congruent sides and	categories.
rectangles have four right angles and squares are	See 3.G.A.1 for sorting quadrilaterals based on attributes that	Determines all categories of a two-dimensional shape.	that all categories of triangles have three sides).	
rectangles, so all squares have four right angles.	do not include parallel and perpendicular lines.			Explains or justifies the classification of a triangle or set of
				triangles based on the properties of the shape(s) and
				categories.
5.G.B.4 Classify two-dimensional figures in a	Classifies two-dimensional figures based on side lengths with a		Classifies triangles and quadrilaterals into a specific category	Creates two-dimensional figures based on classifications of
hierarchy based on properties.	visual.	without a visual.		different shapes (e.g., draws a shape with the same number of
				sides as a rectangle but no perpendicular sides).
		Uses hierarchy relationships to identify properties of	Classifies two-dimensional figures with five or more sides into	
	and perpendicular lines.	quadrilaterals and identifies whether a quadrilateral in one	a specific category using multiple properties (e.g., regular	
		category always, sometimes, or never belongs in another category.	octagon).	
		Arranges two-dimensional figures into a hierarchy based on geometric properties.		
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