

Summative Assessment Mathematics Grade 5 Range Achievement Level Descriptors

What are Range Achievement Level Descriptors?

Range Achievement Level Descriptors (ALDs) demonstrate how skills described in the Nebraska College and Career Ready Standards for Mathematics likely change and become more sophisticated as ability and performance increases. The ALDs also describe the evidence needed to help infer where a student is along the range. This range is defined by Nebraska using three levels:

- Developing not yet demonstrating proficiency
- On Track demonstrating proficiency
- Advanced– demonstrating advanced proficiency

The ALDs help show the within-standard reasoning complexity that increases in sophistication as the achievement levels increase. Such skill advancement is often related to increases in content difficulty, increases in reasoning complexity, and a reduction in the supports required for students to demonstrate what they know within a task or item.

The Range ALDs provide a way to communicate a progression that is visible and usable to all stakeholders, while also providing a foundation for a robust bank of assessment items that meets the needs of all Nebraska students.

How were the Nebraska's Mathematics Range ALDs updated for the new standards?

Draft Range ALDs for the new standards were created and reviewed by panels comprised of Nebraska educators during Spring of 2023. The updated ALDs were shared with NDE and their feedback was applied.

How will Nebraska's ELA Range ALDs change in relation to the new standards?

The updated ALDs were revised to reflect the new standards. The updated ALDs will be taken to the 2023 Item Writing Workshop where they will be used to help facilitate item writing. Feedback will be recorded at the upcoming Item Writing Workshop from Nebraska educators based on their use of the ALDs for writing items and at the upcoming standard setting from panelists. This feedback will then be used to update the ALDs. The updated ALDs will be shared with NDE to obtain their final recommendations.

	Developing learners <u>do not yet demonstrate proficiency</u> in the knowledge and skills peressary at this grade level as specified in the assessed	On Track learners <u>demonstrate proficiency</u> in the knowledge and skills	Advanced Benchmark le
	Nebraska College and Career Ready Standards.	and Career Ready Standards.	assessed Nebraska Adva
Indicator		An on-track learner	An advanced learner
NUMBER: Students will solve problems and reason			
with number concepts using multiple representations			
make connections within math and across disciplines			
and communicate their ideas			
5 N 1 Numeric Relationships: Students will understand			
the place value system.			
	None at level	Determines the expanded form/notation or a visual representation of a	Analyzes representation
		number containing decimals to the thousandths (0.001 to 999,999.999)	numbers containing dec
	(Refer to 4.N.1.a for whole numbers within the range of 100,000 -1,000,000	given in word form. DOK: 1	DOK: 2
	and decimals within the range of 0.01 - 39,339.39.)	Determines another form/representation (standard, expanded, visual) of a	Ex: Explain why 30 + 2 +
	Max DOK: 1	whole number greater than 1,000,000 given in standard form, word form,	
		expanded form/notation, or in a visual representation. DOK: 1	Max DOK: 2
		Determines another form/representation (standard, visual) of a number	
		containing decimals to the thousandths (0.001 to 999,999.999) given in	
		standard form or in a visual representation. DOK: 1	
		Determines another form/representation (standard, visual) of a number	
5 N 1 a Read write and demonstrate multiple		containing decimals to the thousandths (0.001 to 999,999.999) given in	
equivalent representations for multi-digit whole		expanded form/notation. DOK: 1	
numbers and decimals through the thousandths place		Max DOK: 1	
using standard form and expanded form			
5 N.1 b Recognize a digit in one place represents 1/10		1	1
what it represents in the place to its left		Assessed at the local level	
	Determines equivalent expressions for 10, 100, and 1,000 using exponents	Determines equivalent expressions for powers of 10 where the exponent is	Uses powers of 10 to inc
	of 10. DOK: 2	a whole number greater than 3. DOK: 2	number (e.g., 600 = 6 x 1
5 N 1 c Use whole number exponents to denote	May DOV- 2	Max DOV: 2	May DOK: 2
nowers of 10	IVIDA DUK. 2	IVIDA DON. 2	WIAX DOK. 2
5 N 2 Fraction and Decimals Students will extend			
understanding of fraction and decimal equivalence and			
ordering			
	Determines equivalent decimal forms for fractions and mixed numbers	Determines equivalent representations for fractions and decimals for	Determines fractions an
	with denominator of 10. May include visual representations. DOK: 1	fractions with denominators 2, 4, and 5. May include visual	denominators of 8. May
	Determines equivalent, simplified fractions and mixed numbers with	representations. DOK: 2	Evaluing or justifies conv
	denominator of 10 from decimal form. May include visual representations.	Determines equivalent decimal forms for fractions and mixed numbers	fractions or mixed numb
	DOK: 1	with denominator 2, 4, or 5. May include visual representations. DOK: 1	
	Max DOK: 1	Determines equivalent simplified fractions and mixed numbers with	Max DOK: 2
		denominator 2, 4, or 5 from decimal form. May include visual	
5.N.2.a Generate equivalent forms of commonly used		representations. DOK: 1	
fractions and decimals (e.g., halves, fourths, fifths, and		Max DOK: 2	
tenths).			

earners <u>demonstrate advanced proficiency</u> in the cessary at this grade level, as specified in the anced Standards.
ns of whole numbers greater than 1,000,000 and cimals to the thousandths (0.001 to 999,999.999).
0.04 + 0.007 is not the expanded form of 30.247.
dicate place value in the expanded form of a 10^2). DOK: 2
d decimals for whole numbers or fractions with rinclude visual representations. DOK: 2
versions between fractions and decimals for bers with denominators 2, 4, or 5. DOK: 2

	Uses symbols to represent comparisons of two whole numbers when at least one value is greater than 1,000,000. May include a number line. DOK:	Uses symbols to represent comparisons of two decimals between 0.001 and 999,999.999 when both values are thousandths (e.g., compare 1.015	Orders more than three being a mixed number o
	1	and 100.017). May include a number line. DOK: 1	999,999.999). May inclu
5.N.2.b Represent and justify comparisons of whole numbers, fractions, mixed numbers, and decimals through the thousandths place using number lines,	Orders three or more whole numbers with at least one value being greater than 1,000,000 (may or may not use symbols). May include a number line. DOK: 1 (Refer to MA 4.N.1.b for whole numbers within the range of 10,000 - 1,000,000 and decimals within the range of 0.01 - 99,999.99.) Max DOK: 1	Uses symbols to represent comparisons of two numbers when one value is a mixed number or a decimal up to the thousandths (0.001 to 999,999.9999) and the other value is a fraction, whole number, or a decimal to the tenths or hundredths (e.g., compare 0.2 and 5/6). May include a number line. DOK: 2 Uses symbols to represent comparisons of two numbers when both values are a mixed number or one value is a mixed number and the other value is a decimal to the thousandths (0.001 to 999,999.999). May include a number line. DOK: 2 Orders three numbers (whole number, mixed number, fraction, decimal) where at least one value is a mixed number or decimal up to the thousandths. May include a number line. DOK: 2	Analyzes and justifies co mixed number, fraction, number or is a decimal t Ex: Which two numerato comparison true? Justify 0.65 > ?/4 Max DOK: 2
reasoning strategies, and/or equivalence.		Max DOK: 2	
5.N.3 Operations with Fractions and Decimals: Students will apply and extend previous understandings of whole number operations to add, subtract, multiply and divide fractions and decimals.			
5.N.3.a Interpret a fraction as division of the		Assessed at the local level	•
numerator by the denominator.	Multiplies a new unit fraction bug unbelow makes with as without a visual	Multiplies a unit fraction but a new unit fraction with the use of an	Creates a visual model to
	model. Products may be represented as a mixed number or improper fraction. DOK: 1	appropriate visual model. DOK: 1	number that is a unit fra numbers. DOK: 2
	Multiplies a unit fraction by a unit fraction with the use of an appropriate visual model. DOK: 1	Multiplies two non-unit fraction given a visual model. DOK: 1 Max DOK: 1	Analyzes multiplication ((e.g., given the visual representation to deterr
5 N 3 h Multiply a whole number by a fraction or a	Max DOK: 1		Evaluates a visual model
fraction by a fraction including mixed numbers using			expression with fraction
visual fraction models and properties of operations.			Max DOK: 3
	Divides a whole number by a unit fraction given a representation of the whole number that is decomposed into fractional parts. DOK: 1	Divides a unit fraction by a whole number and vice versa. May include the use of visual representations. DOK: 2	Creates a visual model to number or a whole num
	Max DOK: 1	Max DOK: 2	Analyzes division of a un by a unit fraction. May in Explain why the quotien
			4 divided by 1/3.) DOK: 3

numbers up to 1,000,000 with at least two values r decimal to the thousandths (0.001 to le a number line. DOK: 2
mparisons between two numbers (whole number, decimal) where at least one value is a mixed o the tenths or hundredths. DOK: 2
rs could replace the question mark to make the your answer.
o represent multiplication of a fraction to another ction, non-unit fraction, whole number, or mixed
of two fractions based on visual representations presentation, explain how to use the nine the product). DOK: 3
to determine if it matches a given multiplication 5. DOK: 3
hat represents division of a unit fraction by a whole oer by a unit fraction. DOK: 2
it fraction by a whole number or a whole number clude the use of visual representations. (e.g., of 4 divided by 1/5 is greater than the quotient of
to determine if it matches a given division hole and a unit fraction. DOK: 3

SN 3 d Solve authents problems involving additions addition additionates and additionates additionadditionadditadditionates additionates additionates additionates a				
S.N. 3.4 Solve authentic problems involving addition. Max box exhibite decombinits (DC2)		Solves authentic problems involving the addition and/or subtraction of	Solves authentic problems involving the addition of fractions and/or mixed	Solves authentic problems involving both addition and subtraction of
No.3 dow authents problems involving afficiation of fractions and makes Mathematication of fractions and makes Mathematication of fractions and makes Mathematication of fractions and makes Mathematications afficiations afficiation afficiations afficiations afficiations afficiations affi		fractions and/or mixed numbers with like denominators. DOK: 2	numbers with unlike denominators with and without regrouping the sum	fractions and/or mixed numbers with unlike denominators and regrouping
S.M.3 d Solve authentic problem nimeling isotantic of factors and/or most is		Max DOK: 2	into mixed numbers required. DOK. 2	(e.g., 2 1/4 + 3 1/8 - 1 1/2). DOK: 2
5.N.3.d Solve authentic problems involving addition, and multiplications and multip			Solves authentic problems involving subtraction of fractions and/or mixed	
S.M.3.4 Solve authentic problems involving addition; Additional and an experimentation of the additional and an experimentation of the additional and an experimentation of the additional addition of the additional additionadditionaldditionaldditional additional additional additional addi			numbers with unlike denominators without regrouping required (e.g., 64/5	Solves authentic problems involving subtraction of mixed numbers with
S.N.3.4 Solve authentic problems involving datations, and makes problems involving datations, bock authentic problems involving datat			- 4 1/2). DOK: 2	unlike denominators or the subtraction of fractions and mixed numbers with unlike denominators with regrouping required (e.g. $5.1/4 - 2.7/8$)
5.N.3.d Solve authentic problems involving addition under starts addition of fractions and mitted decomments with outgroups and mitted decomments with a decommentary wit			Solves authentic problems involving subtracting a fraction and/or mixed	DOK: 2
S.N.3.d Solve authentic problems involving addition, and interaction of the catabate problems involves and interactin the catabate problems involves and interaction of the c			number from a whole number (e.g., 5 - 3 4/7). DOK: 2	
S.N.3.d Solve authentic problems involving addition, extension of the intersection of the intersecti				Solves authentic problems involving multiplication followed by either
S.N.3.d Solve authentic problems involving addition, and mixed numbers with like and unlike denominators with out regrouping and subscripting DOL 1 Max DDC 2 Second numbers with like and unlike denominators and numbers with like and unlike denominators without regrouping and subscripting DOL 1 Source authents problems involving addition, and mixed numbers with like denominators without regrouping and subscripting DOL 1 S.N.3.e Add and subtract fractions and mixed numbers with like denominators without simplifying. Adds reactions without simplifying DOL 1 Adds reactions without simplifying DOL 1 S.N.3.e Add and subtract fractions and mixed numbers with like denominators without simplifying. DOL 1 Adds reactions without simplifying DOL 1 S.N.3.e Add and subtract fractions and mixed numbers with like denominators without simplifying. DOL 1 Adds reactions without simplifying DOL 1 S.N.3.e Add and subtract fractions and mixed numbers with reactions without simplifying. DOL 1 Adds reactions without simplifying DOL 1 S.N.3.e Add and subtract fractions and mixed numbers with reactions without simplifying. DOL 1 Adds reactions without simplifying DOL 1 S.N.3.e Add and subtract fractions and mixed numbers with reactions without simplifying. DOL 1 Adds reactions without simplifying DOL 1 S.N.3.e Add and subtract fractions and mixed numbers with reactions without simplifying. DOL 1 Adds reactions without simplifying DOL 1 S.N.3.e Add and subtract fractions and mixed numbers w			Solves authentic problems involving the multiplication of fractions and/or	addition or subtraction of fractions and/or mixed numbers with unlike
SN3.6 dolue authentic problems involving addition, and subtraction of the source and or methods with the control source and			mixed numbers. DOK: 2	denominators with or without regrouping (e.g., 3/2 * 2/5 - 1/2). DOK: 2
5.N.3.d Solve authentic problems involving addition, subtracts and mised and subtracts and subtracts and subtracts and and subtracts and subtract			Max DOK: 2	Solves authentic problems involving both addition and subtraction of
5.N.3.6 Solve authentic problems involving addition, subtraction of fractions and mixed under set in alle decommands with a set of the				fractions and/or mixed numbers with unlike denominators and no
S.N.3.d Solve authentic problems involving addition, subscription of addition addition ad				regrouping required for the subtraction (e.g., 1 7/10 + 4 1/2 - 2 1/5). DOK: 2
5.N.3.6 Solve authentic problems involving addition, analyses subtraction, and multiplication analyses subtraction analyses multiplication				Solves outboatic problems involving multiplication followed by either
5.N.3.d Solve authentic problems involving addition, subtraction, and on mulpiper output the second seco				addition or subtraction of fractions and/or mixed numbers with like
5.N.3.d Solve authentic problems involving addition, solution and involve authentic explores with factors and involve authentic explores with a solution				denominators without regrouping (e.g., 3/2 * 2/5 - 1/5). DOK: 2
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5.N.3.d Solve authentic problems involving addition, subtracts on, and multiplication of fractions and mixed numbers with like anominators. Max DDX:1 Max DDX:1 Max DDX:1 Adds fractions with unike denominators without regrouping and without implifying. DDX:1 Adds fractions with unike denominators without regrouping and without simplifying. DDX:1 Adds fractions with unike denominators without regrouping and without simplifying. DDX:1 Adds fractions with unike denominators without regrouping and without simplifying. DDX:1 Adds fractions with unike denominators without regrouping and without simplifying. DDX:1 Adds fractions with unike denominators without regrouping and without simplifying. DDX:1 Adds fractions with unike denominators without regrouping and without simplifying. DDX:1 Adds fractions with unike denominators without regrouping and without simplifying. DDX:1 Adds fractions with unike denominators without regrouping and without simplifying. DDX:1 Adds fractions with unike denominators without regrouping and without simplifying. DDX:1 Adds fractions with unike denominators with regrouping and without simplifying. DDX:1 Adds fractions with unike denominators with regrouping and without simplifying. DDX:1 Adds fractions with unike denominators with regrouping and without simplifying. DDX:1 Adds fractions with unike denominators with regrouping and without simplifying. DDX:1 Adds fractions with unike denominators with regrouping and without simplifying. DDX:1 Adds fractions with unike denominators with regrouping and without simplifying. DDX:1 Adds fractions with unike denominators with regrouping and without simplifying. DDX:1 Adds fractions with unike denominators with regrouping and without simplifying.				(e.g., explains or justifies why a solution is or is not correct). DOK: 3
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S.N.3.6 Add and subtract fractions with unlike denominators without regrouping and without simplifying. DOK: 1 Subtracts fractions with unlike denominators without regrouping and without simplifying. DOK: 1 Subtracts trom model, DOK: 1 Subtracts fractions with unlike denominators without regrouping and without simplifying. DOK: 1 Subtracts trom model, DOK: 1 Subtracts fractions with unlike denominators without simplifying. DOK: 1 Subtracts trom mixed numbers with unlike denominators without simplifying. DOK: 1 Subtracts fractions and hunder and fraction with unlike denominators without simplifying. DOK: 1 Subtracts fractions and hunder and fraction with unlike denominators without simplifying. DOK: 1 Subtracts fractions and hunder and fraction without simplifying. DOK: 1 Subtracts fractions and hunder and fraction without simplifying. DOK: 1 Subtracts fractions and hunder and fraction without simplifying. DOK: 1 Subtracts fractions and hunder and fraction without simplifying. DOK: 1 Subtracts fractions and hunder and fraction simplifying. DOK: 1 Subtracts fractions and hunder and fraction simplifying. DOK: 1 Subtracts fractions and hunder and fraction simplifying. DOK: 1 Subtracts fractions and hunder and fraction simplifying. DOK: 1 Subtracts fractions and hunder and fraction simplifying. DOK: 1 Subtracts fractions and hunder and fraction simplifying. DOK: 1 Subtracts fractions and hunder and fraction fraction simplifying. DOK: 1 Subtracts fractions and hunder and fraction fraction simplifying. DOK: 1 Subtracts fractions and hunder and fraction fr		without simplifying. DOK: 1	without simplifying. DOK: 1	Analyzes addition and subtraction of fractions and mixed numbers with
Subtracts fractions with unlike denominators without regrouping and without simplifying, DOK: 1 Subtracts fractions with unlike denominators without regrouping and without simplifying, DOK: 1 Max DOK: 3 S.N.3.e Add and subtract fractions and mixed numbers and without simplifying. DOK: 1 Subtracts mixed numbers with unlike denominators without regrouping and without simplifying. DOK: 1 Max DOK: 3 S.N.3.e Add and subtract fractions and mixed numbers and without simplifying. DOK: 1 Adds or subtracts mixed numbers and fraction with unlike denominators without simplifying. DOK: 1 Max DOK: 3 S.N.3.e Add and subtract fractions and mixed numbers and subtracting fractions with unlike denominators. Max DOK: 1 Max DOK: 1 Max DOK: 1 Max DOK: 1 Max DOK: 1 Max DOK: 2 Max DOK: 2 Solves authentic problems involving division of a unit fraction by a non-zero whole number using fraction model. DOK: 2 moving division of a unit fraction by a non-zero whole number using fraction model. DOK: 2 S.N.3.f Solve authentic problems involving division of unit fraction given a fraction model. DOK: 2 Max DOK: 2 Solves two-step authentic problems involving division of a non-zero whole number using fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number using fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number using fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number using fraction model. DOK: 2 Solves authentic				unlike denominators without simplifying (e.g., explain how to subtract 1
5.N.3.e Add and subtract fractions and mixed numbers with unlike denominators without regrouping and without simplifying. DOK: 1 Max DOK: 3 5.N.3.e Add and subtract fractions and mixed numbers with unlike denominators without simplifying. DOK: 1 Adds or subtracts a mixed number and a fraction with unlike denominators without simplifying. DOK: 1 with unlike denominators without simplifying. Max DOK: 1 Max DOK: 1 Max DOK: 1 Max DOK: 1 Max DOK: 1 Max DOK: 2 Solves authentic problems involving division of a unit fraction by a non-zero whole number without agiven fraction model. DOK: 2 Paluates or justifies solutions to one-or two-step authentic problems involving division of a number without agiven fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number without agiven fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number without agiven fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number without agiven fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number without agiven fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number without agiven fraction model. DOK: 2 Solves two-step authentic problems involving division of a non-zero whole number without agiven fraction model. DOK: 2 Solves two-step authentic problems involving division of a non-zero whole number without agiven fraction model. DOK: 2 Solves two-step authentic problems involving div		Subtracts fractions with unlike denominators without regrouping and	Subtracts fractions with unlike denominators with regrouping and without	2/3 from 5 1/12). DOK: 3
S.N.3.e Add and subtract fractions and mixed numbers Subtracts mixed numbers with unlike denominators with out simplifying. DOK: 1 Subtracts mixed numbers with unlike denominators with out simplifying. DOK: 1 S.N.3.e Add and subtract fractions and mixed numbers Refer to MA.N.3.c for adding and subtracting fractions with ile denominators Adds or subtracts mixed number and a fraction with unlike denominators Refer to MA.N.3.c for adding and subtracting fractions with ile denominators Max dos: 1 N.3.e Add and subtract fractions and mixed numbers Solves authentic problems involving division of a unit fraction by a non-zero whole number with unlike denominators Max DOK: 1 Max DOK: 1 Solves authentic problems involving division of a unit fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Follautes or justifies solutions to one- or two-step authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Max DOK: 2 Solves two-step authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Solves two-step authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Solves two-step authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Solves two-step authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2		without simplifying. DOK. 1	simplifying. DOK: 1	Max DOK: 3
and without simplifying. DDK: 1 regrouping and without simplifying. DDK: 1 Refer to MA 4.N.3.c for adding and subtracting fractions with like denominators.) Adds or subtracts a mixed number and a fraction with unlike denominator with or without regrouping and without simplifying. DDK: 1 Na DOK: 1 Na DOK: 1 Na DOK: 1 Na DOK: 1 Na DOK: 2 Solves authentic problems involving division of a non-zero whole number vistout a given fraction model. DDK: 2 Na Nobi: 2 Solves authentic problems involving division of a non-zero whole number vistout a given fraction model. DDK: 2 Nax DOK: 2 Solves authentic problems involving division of a non-zero whole number vistout a given fraction model. DDK: 2 Solves authentic problems involving division of a non-zero whole number vistout a given fraction model. DDK: 2 Solves authentic problems involving division of a non-zero whole number vistout a given fraction model. DDK: 2 Nax DOK: 2 Solves authentic problems involving division of a non-zero whole number vistout a given fraction model. DDK: 2 Solves two-step authentic problems involving division of a non-zero whole number without a given fraction model. DDK: 2 Solves fraction model. DDK: 2 Nax DOK: 2 Nax DOK: 2 Solves two-step authentic problems involving division of a non-zero whole number vistout given fraction model. DDK: 2 Solves two-step authentic problems involving division of a non-zero whole number vistout a given fraction model. DDK: 2 Solves two-step authentic problems involving division of		Subtracts mixed numbers with unlike denominators without regrouping	Subtracts two mixed numbers with unlike denominators with or without	
S.N.3.e Add and subtract fractions and mixed number and subtracting fractions with like denominators. Adds or subtracts a mixed number and a fraction with unlike denominators without simplifying. DOK: 1 S.N.3.e Add and subtract fractions and mixed number and a subtracting fraction model. DOK: 2 Max DOK: 1 Max DOK: 1 S.N.3.e Add and subtract fractions without simplifying. Solves authentic problems involving division of a unit fraction by a non-zero whole number without a given fraction model. DOK: 2 Nolves authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Nolves authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Nolves authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Nolves authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Nolves authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Nolves authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Nolves authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Nonvertower authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Nonvertower authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Nonvertower authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Nonvertower authentic problems involving division of a non-zero whole number without a given		and without simplifying. DOK: 1	regrouping and without simplifying. DOK: 1	
S.N.3.e Add and subtract fractions and mixed numbers Adds or subtracts a mixed number and a fraction with unike denominators with unlike denominators.) Max DOK: 1 Max DOK: 1 Max DOK: 1 Solves authentic problems involving division of a unit fraction by a non-zero whole number using fraction model. DOK: 2 Fuluates or justifies solutions to one- or two-step authentic problems involving division of a unit fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number using fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number using fraction model. DOK: 2 Max DOK: 2 Max DOK: 2 Solves authentic problems involving division of a non-zero whole number using fraction model. DOK: 2 Max DOK: 2 Max DOK: 2 Max DOK: 2 Solves authentic problems involving division of a non-zero whole number using fraction model. DOK: 2 Max DOK: 2 Max DOK: 2 Max DOK: 2 Solves two-step authentic problems involving division of a non-zero whole number using fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number using fraction model. DOK: 2 Max DOK: 2 Max DOK: 2 Max DOK: 2 Max DOK: 2 Max DOK: 2 Max DOK: 2 Solves two-step authentic problems involving division of a non-zero whole number using fraction model. DOK: 2 Max DOK: 2 Max DOK: 2 Max DOK: 2 Max D				
5.N.3.e Add and subtract fractions and mixed numbers without simplifying. Max DOK: 1 Max DOK: 1 Max DOK: 1 Max DOK: 1 Max DOK: 1 Solves authentic problems involving division of a unit fraction by a non-zero whole number without a given fraction model. DOK: 2 Evaluates or justifies solutions to one- or two-step autentic problems involving division of a unit fraction by a non-zero whole number without a given fraction model. DOK: 2 Evaluates or justifies solutions to one- or two-step autentic problems involving division of a non-zero whole number by a unit fraction given a fraction model. DOK: 2 Evaluates or justifies solutions to one- or two-step autentic problems involving division of a non-zero whole number by a unit fraction given a fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number by a unit fraction given a fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number by a unit fraction given a fraction model. DOK: 2 Max DOK: 2 Max DOK: 2 Max DOK: 2 Solves two-step authentic problems involving division of a non-zero whole number by a unit fraction given fraction model. DOK: 2 Solves two-step authentic problems involving division of a non-zero whole number by a unit fraction given fraction model. DOK: 2 Solves authentic problems involving division of unit fraction given a fraction model. DOK: 2 Max DOK: 2 Max DOK: 2 Solves two-step authentic problems involving division of a non-zero whole number using fraction model. DOK: 2 Solves two-step authentic problems involving division of a non-zero whole num		(Refer to MA 4.N.3.c for adding and subtracting fractions with like denominators)	Adds or subtracts a mixed number and a fraction with unlike denominators with or without regrouping and without simplifying. DOK: 1	
Max DDK: 1 Max DDK: 1 With unlike denominators without simplifying. Solves authentic problems involving division of a unit fraction by a non-zero whole number without a given fraction model. DDK: 2 Kaluates or justifies solutions to one- or two-step authentic problems involving division of a unit fraction and a non-zero whole number whole number given a fraction model. DDK: 2 Kaluates or justifies solutions to one- or two-step authentic problems involving division of a unit fraction and a non-zero whole number whole number given a fraction model. DDK: 2 Kaluates or justifies solutions to one- or two-step authentic problems involving division of a unit fraction and a non-zero whole number whole number given a fraction model. DDK: 2 Kaluates or justifies solutions to one- or two-step authentic problems involving division of a unit fraction and a non-zero whole number whole number given fraction model. DDK: 2 Solves authentic problems involving division of a unit fraction given a fraction model. DDK: 2 Solves authentic problems involving division of a unit fraction by a non-zero whole number by a unit fraction given a fraction model. DDK: 2 Nax DK: 2 Max DK: 2 Max DK: 2 Max DK: 2 Solves two-step authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Nax DK: 2 Solves authentic problems involving division of whole numbers and division of whole Max DK: 2 Max DK: 2 Max DK: 2 Solves the numbers by unit fractions. Whole numbers and division of whole Nax DK: 2 Max DK: 2 Max DK: 2	5 N 3 e Add and subtract fractions and mixed numbers			
Solves authentic problems involving division of a unit fraction by a non-zero whole number without a given fraction model. DOK: 2 whole number given a fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number by a unit fraction given a fraction model. DOK: 2 Max DOK: 2 5.N.3.f Solve authentic problems involving division of whole numbers by unit fractions. Solves authentic problems involving division of whole numbers by unit fractions.	with unlike denominators without simplifying	Max DOK: 1	Max DOK: 1	
whole number given a fraction model. DOK: 2whole number without a given fraction model. DOK: 2involving division of a unit fraction and a non-zero whole number using fraction model. pok: 2Solves authentic problems involving division of a non-zero whole number by a unit fraction given a fraction model. DOK: 2Solves authentic problems involving division of a non-zero whole number by a unit fraction given a fraction model. DOK: 2Solves authentic problems involving division of a non-zero whole number by a unit fraction given a fraction model. DOK: 2Solves authentic problems involving division of a non-zero whole number by a unit fraction without a given fraction model. DOK: 2Solves authentic problems involving division of a non-zero whole number by a unit fraction given a fraction model. DOK: 2Solves authentic problems involving division of a non-zero whole number on-zero whole number without a given fraction model. DOK: 2Solves authentic problems involving division of a non-zero whole number on-zero whole number without a given fraction model. DOK: 25.N.3.f Solve authentic problems involving division of whole numbers by unit fractions.Solves authentic problems involving division of a non-zero whole number by a unit fraction without a given fraction model. DOK: 2Max DOK: 2	with diffice denominators without simplifying.	Solves authentic problems involving division of a unit fraction by a non-zero	Solves authentic problems involving division of a unit fraction by a non-zero	Evaluates or justifies solutions to one- or two-step authentic problems
SN.3.f Solve authentic problems involving division of a mon-zero whole numbers by unit fraction sy whole numbers and division of whole numbers by unit fractions. Automatic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Max DOK: 2 SN.3.f Solve authentic problems involving division of a numbers by unit fractions. Max DOK: 2 Max DOK: 2 Solves authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 Solves two-step authentic problems involving division of a non-zero whole number without a given fraction model. DOK: 2 S.N.3.f Solve authentic problems involving division of whole numbers and division of whole numbers and division of whole numbers and division of whole numbers by unit fractions. Max DOK: 2 Max DOK: 2		whole number given a fraction model. DOK: 2	whole number without a given fraction model. DOK: 2	involving division of a unit fraction and a non-zero whole number using
Solves authentic problems involving division of a non-zero whole number by a unit fraction given a fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number by a unit fraction given a fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number by a unit fraction given a fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number by a unit fraction given a fraction model. DOK: 2 Solves authentic problems involving division of a non-zero whole number by a unit fraction given fraction model. DOK: 2 Solves two-step authentic problems involving division of a non-zero whole non-zero whole number without a given fraction model. DOK: 2 5.N.3.f Solve authentic problems involving division of unit fractions by whole numbers and division of whole numbers by unit fractions. Max DOK: 2 Max DOK: 2				fraction models, equations, or other valid methods. DOK: 2
5.N.3.f Solve authentic problems involving division of a unit fraction model. DOK: 2 Max DOK: 2 5.N.3.f Solve authentic problems involving division of whole numbers by unit fractions.		Solves authentic problems involving division of a non-zero whole number	Solves authentic problems involving division of a non-zero whole number	
Max DOK: 2 5.N.3.f Solve authentic problems involving division of unit fractions by whole numbers and division of whole numbers by unit fractions. Max DOK: 2 Max DOK: 2		by a unit fraction given a fraction model. DOK: 2	by a unit fraction without a given fraction model. DOK: 2	Solves two-step authentic problems involving division of a unit fraction by a
5.N.3.f Solve authentic problems involving division of unit fractions by whole numbers and division of whole numbers by unit fractions.		Max DOK: 2	Max DOK: 2	
5.N.3.f Solve authentic problems involving division of unit fractions by whole numbers and division of whole numbers by unit fractions. Max DOK: 2				Solves two-step authentic problems involving division of a non-zero whole
5.N.3.f Solve authentic problems involving division of unit fractions by whole numbers and division of whole numbers by unit fractions.				number by a unit fraction without a given fraction model. DOK: 2
unit fractions by whole numbers and division of whole numbers by unit fractions.	5 N 3 f Solve authentic problems involving division of			
numbers by unit fractions.	unit fractions by whole numbers and division of whole			
numbers by unit fractions.	numbers and division of whole numbers and division of whole			
	numbers by unit fractions.			

5.N.3.g Add, subtract, multiply, and divide decimals to hundredths using strategies based on place value, properties of operations, and/or algorithms.	Adds or subtracts decimals to the tenths or hundredths when provided a visual model. DOK: 1 Multiplies or divides a decimal by a whole number based on place value (e.g., only needs to determine the correct decimal placement for the product or quotient). DOK: 1 Max DOK: 1	Adds or subtracts decimals to the tenths or hundredths using strategies based on place value, properties of operations, or relationships between operations (e.g., Which expression is equivalent to (0.16 + 0.25) + 0.05?). DOK: 2 Multiplies or divides two decimals to the tenths or hundredths using strategies based on place value, properties of operations, or relationships between operations. DOK: 2 Max DOK: 2	Analyzes addition, subtra tenths or hundredths usin properties of operations, how a given model relate determine the sum). DOM Max DOK: 3
ALGEBRA: Students will solve problems and reason with algebra using multiple representations, make connections within math and across disciplines, and communicate their ideas. 5.A.1 Operations and Algebraic Thinking: Students will extend understanding of division and apply operational properties to solve problems involving order of			
5.A.1.a Multiply multi-digit whole numbers using an algorithm.	Multiplies a whole number with 5 or more digits by a one-digit whole number. DOK: 1 Multiplies a three-digit whole number times a two-digit whole number. DOK: 1 (Refer to 4.A.1.b for multiplying a two-, three-, or four-digit whole number by a one-digit whole number.) (Refer to 4.A.1.b for multiplying a two-digit whole number by a two-digit whole number.) Max DOK: 1	Multiplies any whole number with 4 or more digits by a two-digit whole number. DOK: 1 Multiplies any whole number with 3 or more digits by a three-digit whole number. DOK: 1 Max DOK: 1	Analyzes multiplication o DOK: 2 Ex: When shown the step determine the step wher numbers and calculate th Compares two different a identify how they relate th Max DOK: 3
5.A.1.b Divide four-digit whole numbers by a two-digit divisor, with and without remainders, using strategies based on place value.	Divides a two- or three-digit whole number by a two-digit divisor with or without a remainder. DOK: 1 (Refer to 4.A.1.c for dividing a two-, three-, or four-digit whole number by a one-digit whole number.) Max DOK: 1	Divides a four-digit whole number by a two-digit divisor with or without a remainder. DOK: 1 Max DOK: 1	Analyzes division of two, whole number with or wi of 450 divided by 15 is gr DOK: 3 Max DOK: 3
5.A.1.c Justify the reasonableness of computations involving whole numbers, fractions, and decimals.		Assessed at the local level	

action, multiplication, or division of decimals to the ing models or strategies based on place value, s, or relationships between operations (e.g., explain ies to adding decimals and how to use the model to iK: 3

of multi-digit whole numbers using an algorithm.

ps for calculating the product using an algorithm, re an error occurred in multiplying two whole he correct product.

algorithms used to solve a given problem and to one another. DOK: 3

, three, or four-digit whole numbers by a two-digit vithout a remainder (e.g., explain why the quotient reater than the quotient of 450 divided by 30).

	Simplifies authentic two-step numerical expressions involving the order of	Simplifes authentic three-step numerical expressions involving the order of	Determines two equivale
	operations (excluding exponents). DOK: 1	operations (excluding exponents) when using up to three different	the expressions has four
	Simplifies authentic three-step numerical expressions involving the order of	left of multiplication (e.g., 18÷3x2+5). DOK: 1	parenthesis, addition, or
	operations (excluding exponents) when using only two different two		
	operations (e.g., 3x5-1x5). DOK: 1	Simplifes authentic numerical expressions with four or more steps involving	Ex: Which two expression
	Simplifies authentic three-step numerical expressions involving the order of	the order of operations (excluding exponents). DOK. 1	choices include. 52/4 + 5
	operations (excluding exponents) when using up to three different	Substitutes a given value for a variable in an authentic algebraic expression	Determines the basic ope
	operations and addition is to the left of subtraction and multiplication is to	with three or more steps and then evaluates the expression using the order	to make a three step aut
	the left of division (e.g., 5x4÷2+3). DUK: 1	of operations (excluding exponents). DOK: 2	operations (excluding ex
	Substitutes a given value for a variable in an authentic algebraic expression	Max DOK: 2	Determines two equivale
	with one or two steps and then evaluates the expression using the order of		the expressions has four
	operations (excluding exponents). DUK: 2		(excluding exponents) ar parenthesis addition or
	Max DOK: 2		parentilesis, addition, or
			Ex: Which two expression
			choices include: 10 - 1 +
			Explains or justifies the e
			expressions using order
			Max DOK: 2
5.A.1.d Simplify authentic numerical or algebraic			Wax DOK. 5
expressions using order of operations (excluding			
exponents).			
GEOMETRY: Students will solve problems and reason			
with geometry using multiple representations, make			
connections within math and across disciplines, and			
communicate their ideas.			
5.G.1 Shapes and Their Attributes: Students will			
classify two and three-dimensional figures into			
categories based on their properties.			
	Identifies the faces, edges, and/or vertices of rectangular prisms from	Determines the properties of a rectangluar prsim including the faces,	Explains and describes he
		squares). DOK: 2	are related to the shape
	Determines the number of faces and/or vertices of rectangular prisms from		
	images. DOK: 1	Max DOK: 2	Max DOK: 3
	Determines the number of edges of a rectangular prism from an image.		
	DOK: 1		
5.G.1.a Identify and describe faces, edges, and vertices	Max DOK-1		
of rectangular prisms.			
5.G.1.b Recognize volume as an attribute of solid		Assessed at the local level	
figures that is measured in cubic units.	Determines two dimensional change that halong to place firstion estagarias	Classifies triangles and quadrilaterals into a specific estagon using multiple	Evalaine or justifies the e
	when given properties of the categories. DOK: 2	properties (e.g., isosceles right triangle). DOK: 2	quadrilaterals and regula
			shape(s) and categories.
	Determines classification categories for two-dimensional shapes when	Explains or justifies the classification of a quadrilateral, set of	
	given properties of the snapes. DUK: 2	quadrinaterals, or regular polygons based upon the properties of the shape(s) and categories. DOK: 3	IVIAX DUK: 3
	Classifies polygons with five or more sides into a specific category using		
	multiple properties (e.g., regular pentagon). DOK: 2	Max DOK: 3	
	Max DOK: 2		
5.G.1.c Justify the classification of two-dimensional			
figures in a hierarchy based on their properties.			
5.G.2 Coordinate Geometry: Graph points on the			
coordinate plane to solve authentic problems.			

ent authentic numerical expressions when one of r or more steps involving the order of operations nd the change between the expressions is not in r multiplication. DOK: 2 ons are equivalent to $52 - 20/4 + 2 \times 3?$ 3 x 1; 52 - 5 + 3 x 1; 52 - 20/10; 52 - 5 + 6 etc. eration or placement of grouping symbols needed thentic numerical expression involving the order of (ponents) equal a given value. DOK: 2 ent authentic numerical expressions when one of r or more steps involving the order of operations nd the change between the expressions is either in r multiplication. DOK: 2 ons are equivalent to $2 \times (5-1) + 3 \times 1?$ 3x1; 2 x 4 + 3 x 1; 2 - 1 + 3 x 1; etc. evaluation of authentic numerical or algebraic of operations (excluding exponents). DOK: 3 now general features of rectangular prism compare sm (e.g. the number of faces or number of edges) of the base. DOK: 3 classification of a shape or set of shapes, beyond ar polygons, based upon the properties of the DOK: 3

5.G.2.a Identify the origin, x axis, and y axis of the	Assessed at the level level		
coordinate plane.	Assessed at the local level		
	Determines the graph of or graphs the point (0, 0) on the coordinate plane. DOK: 1	Determines the graph of or graphs a point along the x-axis or y-axis on the coordinate plane, given an ordered pair (0, n) or (n, 0), where n is a whole number. DOK: 1	Explains or justifies how pair from its graph using Max DOK: 2
	ordered pairs. DOK: 1	Max DOK: 1	
5.G.2.b Graph and name points in the first quadrant of	Determines the ordered pair describing a point within the first quadrant. DOK: 1		
numbers.	Max DOK: 1		
	Determines an output value when given a rule and an input value. DOK: 1	Determines which ordered pair(s) is/are formed by a given rule, where the	Determines a combinatio
	Determines an input value when given a rule and an output value. DOK: 2	words. The ordered pair(s) may be in (x, y) format, in a table, or point(s) graphed in the first quadrant of the coordinate plane. The ordered pair must be in context, DOK: 2	given output and input v given an input/output ta values, determine the m
	IVIAX DUN. 2	Indst be in context. Dok. 2	Determines the rule, wh
5.G.2.C Form ordered pairs from authentic problems		Interprets the meaning of coordinate values within a context. DOK: 2	when given ordered pair quadrant of the coordina
the first quadrant on a coordinate plane, and interpret		Max DOK: 2	
coordinate values in the context of the situation.			Max DOK: 2
5.G.3 Measurement: Generate conversions within the			
customary and metric systems of measurement to			
solve authentic problems.			
	Determines equivalent measurements that are one step or one degree of change from a smaller to larger unit using metric units of measurement (e.g., inches to feet)- must include context. DOK: 2	Determines equivalent measurements that are one step or one degree of change from a smaller to larger unit using customary of measurement (e.g., inches to feet)- must include context. DOK: 2	ore more degrees of cha measurement (e.g., inch
	(Refer to MA 4.G.2.c for one- and two-step conversions from a larger unit to a smaller unit.) Max DOK: 2	Determines equivalent measurements that are two or more steps or two or more degrees of change from each other using metric units of measurement (e.g.millimeters to decimeters)- must include context. DOK: 2	Compares customary un two or more step conver include context. DOK: 2
		Compares customary units of measurement within the same system using one step conversions from a smaller unit to a larger unit - must include context. DOK: 2	Explains how to determin system using customary degree of change is movi are at least three steps o larger unit to a smaller u
5.G.3.a Generate conversions in authentic		Compares metric units of measurement within the same system using one or more step conversions from a smaller unit to a larger unit - must include context. DOK: 2	Analyzes strategies for co rate, etc.) DOK: 2
mathematical situations from larger units to smaller		Max DOK: 2	Max DOK: 2
customary and metric systems of measurement.			
5.G.4 Area and Volume: Students will extend area			
problems for rectangles to include fractions and build			
meaning for measuring volume.			
	Determines the value of the unit square in a tiled ractangle with fracttional side lengths. DOK: 1	Represents the area of a tiled rectangle with fractional side lengths as multiplication of the side lengths. DOK: 1	Shows and explains why can be found by both cou lengths and uses appropriate and the second
	Avoid exponents in units.	Determines or creates an image of a tiled rectangle with fractional side lengths given the area represented as multiplication of the side lengths.	Max DOK: 2
	improvised units).		
5.G.4.a Find the area of a rectangle with fractional side	Max DOK: 2	Avoid exponents in units.	
lengths by tiling it with unit squares of the fraction side		Uses appropriate units (square cm, square m, square in, square ft, and	
lengths, and show that the area is the same as would		Improvised units).	
be found by multiplying the side lengths.		Max DOK: 2	

to graph a given ordered pair or name an ordered g the x- and y-axis. DOK: 2

on of input and output values that correspond to values for a specific rule in a context (e.g. when able with a combination of missing input and output nissing values based on the rule). DOK: 2

ere the rule is described in words within a context, rs as coordinates, tables, or graphed in the first ate plane. DOK: 2

measurements that are two or more steps or two ange from each other using customary units of nes to yards)- must include context. DOK: 2

its of measurement within the same system using rsions from a smaller unit to a larger unit - must

ine equivalent measurements within the same or metric units when at least one step or one ving from a smaller to a larger unit or when there or three degrees of change when moving from a unit - must include context. DOK: 2

converting measurements (e.g. number line, unit

the area of a rectangle with fractional side lengths unting the unit squares and by multiplying the side priate units (may include context). DOK: 2

	Applies the area formula to determine the area of a rectangle when one side is a whole number and the other is fractional (may include context).	Applies the area formula to determine the area of a rectangle when both dimensions are fractional (may include context). DOK: 1	Determines the missing an image of the rectangl
	Max DOK: 1	Identifies the rectangular models that has an area which represents a product of fractions. DOK: 1	Describes an area mode
5.G.4.b Multiply fractional side lengths to find areas of		Max DOK· 1	Max DOK: 2
rectangles, and represent fraction products as			Mux DOK. 2
rectangular areas.			
	Determines the volume of rectangular prisms with cubic units shown by counting the cubic units (may include context). DOK: 1	Determines the image(s) of rectangular prisms with cubic units shown that result in a given volume (may include context). DOK: 2	Explains or justifies that obtained by multiplying prism (may include cont
	Appropriate units should be used. (cubic cm, cubic in, cubic ft, and improvised units)	Compares the volumes of rectangular prisms with cubic units shown (may include context). DOK: 2	Appropriate units should
	Max DOK: 1	Appropriate units should be used. (cubic cm, cubic in, cubic ft, and improvised units)	Max DOK: 3
5.G.4.c Use concrete models to measure the volume of			
rectangular prisms by counting cubic units.		Max DOK: 2	
	Determines a diagram of right rectangular prism with whole number side lengths given the volume as length x width x height. (more than one correct answer) DOK: 1	Determines a diagram of right rectangular prism with whole number side lengths given the volume as Area of the base x height. (more than one correct answer) DOK: 1	Determines right rectant the associative property same volume as 3 m x (2
	Represents the volume of a right rectangular prism with whole number side lengths as length x width x height given the diagram and unit cubes drawn. DOK: 2	Represents the volume of a right rectangular prism with whole number side lengths as Area of the base x height given the diagram and unit cubes drawn. DOK: 2	Avoid exponents in units
5.G.4.d Find the volume of a rectangular prism with	Avoid exponents in units.	Avoid exponents in units.	Appropriate units should improvised units)
whole-number side lengths by modeling with unit cubes, and show that volume can be additive and is the	Appropriate units should be used. (cubic cm, cubic in, cubic ft, and improvised units)	Appropriate units should be used. (cubic cm, cubic in, cubic ft, and improvised units)	Max DOK: 2
same as would be found by multiplying the area of the base times height.	Max DOK: 2	Max DOK: 2	
	Determines the volume of rectangular prisms when given whole number length, width, and height (may include image and must include context). DOK: 1	Determines an unknown dimension when given the volume and two dimensions of a rectangular prism (must include context). Dimensions must be whole number lengths. DOK: 2	Determines multiple set result in the desired volu (must include context). I
	Determines the volume of rectangular prisms when given the area of the base and height (may include image and must include context). Prism must have whole number edge lengths. DOK: 1	Determines which dimensions (length, width, and height) result in the desired volume when given the volume of a rectangular prism (must include context). Dimensions must be whole number lengths. DOK: 2	Ex: A box needs to have dimesions will have the
	Max DOK: 1	Determines if rectangular prisms have the same volume when given rectangular prisms of different dimensions (must include context). Prisms must have whole number edge lengths. DOK: 2	Max DOK: 3
5.G.4.e Solve authentic problems by applying the formulas V = I × w × h and V = B × h for rectangular		Compares the volumes of rectangular prisms when given the dimensions of the prisms (must include context). Dimensions must be whole number lengths. DOK: 2	
prisms to find volumes of rectangular prisms with whole number edge lengths.		Max DOK: 2	
DATA: Students will solve problems and reason with			
data/probability using multiple representations, make			
connections within math and across disciplines, and			
Communicate their ideas.			
Guestions to collect organize and represent data No.			
additional indicators at this level.			
5.D.2 Analyze Data and Interpret Results: Students will			
analyze the data and interpret the results.			

side length of a rectangle when given the area and gle with one missing dimension. One of the ractional (may include context). DOK: 2 I to represent a product of fractions. DOK: 2 t the volume of a rectangular prism can also be g the whole-number dimensions of the rectangular text). DOK: 3 d be used. (cubic cm, cubic in, cubic ft, and ngular prisms that have the same volume based on y (e.g., identifies (3 m x 2 m) x 1 m as having the 2 m x 1 m)). Can be represented in a diagram or es not need to know the term associative property. s. Id be used. (cubic cm, cubic in, cubic ft, and ets of dimensions (length, width, and height) that lume when given the volume of a rectangular prism Dimensions must be whole number lengths. DOK: 3 e a volume of 24 cubic feet. Which of the box correct volume?

	Determines the line plot that represents given data from observations,	Draws conclusions about trends in data from observations, surveys, or	Explains or justifies conclu
	surveys, or experiments and vice versa. Includes answering questions about	experiments that are related to data given in a data list or a line plot of	surveys, or experiments.
	quantity differences in the graph or accuracy of the plot. DOK: 2	data. DOK: 3	
			Explains or justifies repres
	Determines the difference or sum of data that includes only whole	Determines the frequency chart that represents given data from	observations, surveys, or e
	numbers presented in a table. DOK: 2	observations, surveys, or experiments and vice versa. Includes answering	frequency charts, tables, o
		questions about quantity differences in the frequency chart or accuracy of	ways. DOK: 3
	Max DOK: 2	the chart. DOK: 2	
			Max DOK: 3
E.D. 2. a Depresent analyze, and calve authentic		Compares the change of data from observations, surveys, or experiments	
5.D.2.a Represent, analyze, and solve authentic		presented in a table or line plot (e.g., Between which two hours did the	
problems using information presented in one or more		greatest change in temperature occur?) DOK: 2	
tables or line plots including whole numbers and			
fractions		Max DOK: 3	
Iracuons.			

usions about trends in data from observations, DOK: 3

esentation of data or interpretations of data from experiments. Includes data represented in or line plots, and data represented in multiple