

## Summative Assessment Mathematics Grade 1 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.

NSCAS Mathematics Grade 1 Range ALDs			
Indicator	Developing learners <u>do not yet demonstrate proficiency</u> in the knowledge and skills necessary at this grade level, as specified in the assessed Nebraska College and Career Ready Standards.	On Track learners <u>demonstrate proficiency</u> in the knowledge and skills necessary at this grade level, as specified in the assessed Nebraska College and Career Ready Standards.	Advanced Benchmark le knowledge and skills ned assessed Nebraska Adva
	A developing learner	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.			
1.N.1 Subitizing: Students will quantify briefly shown collections and verbally label the arrangements			
without counting.			
1.N.1.a Without counting, recognize and verbally label arrangements for briefly shown collections up to 20 (e.g.," I saw 16." "How did you know?" "I saw 10 and 6, that is 16").		Assessed at the local level	
1.N.2 Counting and Cardinality: Students will understand the relationship between numbers and quantities to extend the counting sequence.			
	Extends counting by ones to the next number given a counting sequence. The next number must be from 101 to 120. (e.g.,: Which number is next when counting by ones? 99, 100, 101,) DOK: 1 Extends counting by tens to the next multiple of ten or next set of multiples	Extends counting by ones to the next set of numbers given a counting sequence. The last number must be from 101 to 120. (e.g.,: Which numbers are next when counting by ones? (102, 103, 104,,) DOK: 1	Determines more than c counting by ones or tens to 120. (e.g.,: Which num , 100,, 120) DC
	of tens, given a counting sequence. The next multiple of ten or set must include 110 and/or 120. (e.g.,: Which numbers are next when counting by tens? 80, 90, 100,,) DOK: 1	Determines the missing number in a counting sequence when counting by ones or tens. The last number given must be from within 101 to 120. (e.g.,: Which number is missing when counting by ones? (102, 103, 104,, 106) DOK: 1	Writes the next set of nu starting number. The ne Which numbers come af numbers in the blanks. 1
1 N 2 a Count verbally by ones and tens within 120	Refer to 1.N.2.d for referencing counting sequences with pattern rules. Max DOK: 1	Identifies the next set of numbers when counting by ones or tens given one starting number. The next set of numbers must end within 101 to 120. (e.g., Which list of numbers comes after 70 when counting by tens?) DOK: 1	Max DOK: 2
starting at any given number.		Max DOK: 1	
1.N.2.b Count verbally by ones and tens within 120 starting at any given number. Understand that the given number is a direct representation of the total objects in a given set and counting on each successive number represents adding an additional object, and counting back each proceeding number represents removing an object.		Assessed at the local level	
	Determines the numeral for a given representation of multiples of ten from 10 - 120 using objects, when objects are organized as groups of ten. Objects may include base-ten blocks as long as they are not referenced as such. See 1.N.3.a for referencing base-ten blocks. DOK: 1	Determines the numeral for a given representation of numbers within 1 - 119, other than multiples of ten, using objects. Objects may include base- ten blocks as long as they are not referenced as such. See 1.N.3.a for referencing base-ten blocks. DOK: 1	Creates the representati 120. Objects may include referenced as such. See
1.N.2.c Write numerals to match a representation of a	Max DOK: 1	Determines the numeral for a given representation of multiples of ten from 10 - 120 using objects, when objects are NOT organized as groups of ten. Objects may include base-ten blocks as long as they are not referenced as such. See 1.N.3.a for referencing base-ten blocks. DOK: 1	Determines the numera numbers within 1 - 120 r as long as they are not r ten blocks. DOK: 1 Max DOK: 1
given set of objects for numbers up to 120.		Max DOK: 1	

rners <u>demonstrate advanced proficiency</u> in the essary at this grade level, as specified in the
iced Standards.
ne missing number in a counting sequence when
The last number given must be from within 101 bers are missing when counting by tens? (70, 80, K: 1
mbers when counting by ones or tens given one t set of numbers must end from 101 to 120. (e.g., er 108 when counting by ones? Enter the 08,,,) DOK: 2
n of a number using objects given a number 1 -
n of a number using objects given a number 1 - base-ten blocks as long as they are not .N.3.a for referencing base-ten blocks. DOK: 2
on of a number using objects given a number 1 - base-ten blocks as long as they are not .N.3.a for referencing base-ten blocks. DOK: 2
on of a number using objects given a number 1 - base-ten blocks as long as they are not .N.3.a for referencing base-ten blocks. DOK: 2 of or more than one given representation of sing objects. Objects may include base-ten blocks ferenced as such. See1.N.3.a for referencing base-
on of a number using objects given a number 1 - base-ten blocks as long as they are not .N.3.a for referencing base-ten blocks. DOK: 2 if or more than one given representation of sing objects. Objects may include base-ten blocks ferenced as such. See1.N.3.a for referencing base-
on of a number using objects given a number 1 - base-ten blocks as long as they are not .N.3.a for referencing base-ten blocks. DOK: 2 if or more than one given representation of sing objects. Objects may include base-ten blocks ferenced as such. See1.N.3.a for referencing base-

	Determines the corresponding counting sequence given the rule of adding 2, 5, or 10 and the sequence is within 100 or vice versa (e.g. Which counting sequence follows the rule of adding 2?). DOK: 1	Determines the corresponding counting sequence given the rule of adding 2, 5, or 10 and at least part of the sequence is within 101 - 120 (e.g. Which counting sequence follows the rule of adding 10?). DOK: 1	Determines the correspo or 10 and the sequence is sequence follows the rule
	Refer to 1.N.2.a for extending a counting sequence by 1 or 10.	Max DOK: 1	Max DOK: 1
1.N.2.d Understand patterns of skip counting by 2s, 5s, and 10s.	Max DOK: 1		
1.N.3 Base Ten: Students will represent and compare			
two-digit numbers to gain foundations for place value.	Determines the number of tone and ones in two digit numbers, other than	Determines the number of tens and eners in two disit numbers, other than	Dotorminos the equation
	multiples of ten, when given a visual representation using base-ten blocks or other objects grouped in groups of tens and ones. DOK: 1	multiples of ten, without a visual representation. DOK: 1	the number of tens and c ten, without a visual repr
	Determines the equation with two addends (expanded form) to represent	Determines the equation with two addends (expanded form) to represent	DOK: 1
	the number of tens and ones in the numbers $11 - 19$ when given a visual representation using base-ten blocks or other objects grouped in groups of tens and ones. (e.g., $19 = 10 + 9$ ) The term expanded form is not used. DOK: 1	ten, when given a visual representation using base-ten blocks or other objects grouped in groups of tens and ones. (e.g., 34 = 30 + 4) The term expanded form is not used. DOK: 1	Determines the value of t in the incomplete equation number (e.g., Determine The term expanded form
	Max DOK: 1	Determines the equation with two addends (expanded form) to represent the number of tens and ones in numbers 11 - 19 without a visual	Max DOK: 2
1.N.3.a Understand 10 as a bundle, collection, or		representation. The term expanded form is not used. DOK: 1	
(more abstractly) composition of ten ones and that the		Max DOK: 1	
two digits of a two-digit number represent a			
composition of some tens and some ones.	Depresents comparisons between two whole numbers when one value is	Depresents comparisons with of two whole numbers, both being between	Orders more than three y
	from 1 - 10 and one value is between 10 and 100 using symbols. DOK: 1	10 and 100 using symbols. DOK: 1	between 10 and 100 (ma
	Determines the least or greatest number given two or more numbers between 10 and 100. DOK: 1	Orders three whole numbers with at least one value being between 10 and 100 (may or may not use symbols). DOK: 2	Analyzes and/or justifies are between 10 and 100
	Max DOK: 1	Determines the number that is greater than a given number and less than another given number, both being between 10 and 100 (e.g., finds the number that is less than 85 and greater than 63.). DOK: 1	Max DOK: 3
		Analyzes and/or justifies comparisons between two numbers when one	
1.N.3.b Compare two, two-digit numbers using words		value is 1 - 10 and one value is between 10 and 100. (e.g., explain whether	
greater than, less than, equal to, and symbols <, >, =.		a given or generated comparison is accurate). DOK: 3	
Justify comparisons based on the number of tens and ones.		Max DOK: 3	
1.N.4 Number and Operations: Students will compute			
using addition and subtraction.			
	Adds or subtracts within 20 with supports provided (i.e., one operation). DOK: 1	Adds or subtracts within 20 without supports provided (i.e. one operation). DOK: 1	Both adds and subtracts operations). DOK: 2
	Performs multi-step addition or subtraction within 20 with supports provided (one operation but more than one step). DOK: 2	Both adds and subtracts within 20 with supports provided (i.e. both operations). DOK: 2	Max DOK: 2
1.N.4.a Add and subtract within 20, using flexible	Refer to 3.G.4.a for adding/subtracting within 100 using number lines.	Performs multi-step addition or subtraction within 20 without supports	
strategies such as counting on or counting back,	Max DOK: 1	provided (one operation but more than one step). Dok. 2	
making ten, using ten, and using doubles and near doubles.		Max DOK: 2	
1.N.4.b Efficiently, flexibly, and accurately add and subtract within 10.		Assessed at the local level	

nding sequence given the rule of subtracting 2, 5 within 120 or vice versa (e.g. Which counting of subtracting 10?). DOK: 1
with two addends (expanded form) to represent nes in two-digit numbers, other than multiples of esentation. The term expanded form is not used.
he missing number for a two-digit whole number on with two addends (expanded form) of the the value of the missing number in 47 = 40 + ?). is not used. DOK: 2
or may not use symbols). DOK: 2
comparisons between two numbers when both e.g., explain whether a given or generated DOK: 3
vithin 20 without supports provided. (i.e. both

	None at this level.	Subtracts within 20 - 100 by subtracting two multiples of 10 with supports	Subtracts within 20 - 100
	Pofor to $1 \text{ N} 4$ a for subtracting within 20	provided. DOK: 1	supports. DOK: 1
1.N.4.c Find the difference between two numbers that		Represents the subtraction problem with a numerical expression when	Max DOK: 1
are multiples of 10, ranging from 10 to 90 using	Refer to 3.G.4.a for adding/subtracting within 100 using number lines.	given a subtraction model for subtracting within 20 - 100 using two	
concrete models, drawings, or strategies, and write the		multiples of 10.	
corresponding equation.		Max DOK: 1	
1.N.4.d Mentally find 10 more or 10 less than a two-			-
digit number without having to count and explain the		Assessed at the local level	
reasoning used.			
	None at this level.	Adds within 20 - 100 by adding a two-digit number, including multiples of	Adds within 20 - 100 by a
		ten, to a one-digit number with supports provided. May or may not require	ten, to a one-digit number
	Refer to 1.N.4.a for subtracting within 20.	regrouping. DOK: 1	require regrouping. DOK
1.N.4.e Add within 100, including adding a two-digit	Refer to 3.G.4.a for adding/subtracting within 100 using number lines.	Adds within 20 - 100 by adding a multiple of ten to a two-digit number with	Adds within 20 - 100 by a
number and a one-digit number, adding a two-digit		supports provided. May or may not require regrouping. DOK: 1	without supports provide
number and a multiple of ten, using concrete models,		Max DOK: 1	Adds within 20 - 100 by a
drawings, and strategies that reflect an understanding			are multiples of ten, with
of place value, the relationship between addition and			
subtraction, and the properties of operations. Relate			Explains how to add with DOK: 3
the strategy to a written method and explain the			
reasoning used to solve.			Max DOK: 3
1.N.4.f Understand that in adding two-digit numbers,			
one adds tens and tens, ones and ones; sometimes it is		Assessed at the local level	
necessary to compose a ten.			
	None at this level.	Subtracts within 20 - 99 by subtracting two-digit multiples of ten from a	Explains how to subtract
1.N.4.g Subtract multiples of ten from two-digit	Refer to 1.N.4 a for subtracting within 20.	two-digit number with supports provided. May or may not require regrouping_DOK: 1	a written method. DOK: 3
numbers (positive or zero differences) using concrete		· · · · · · · · · · · · · · · · · · ·	Difference should be pos
models, drawings, and strategies that reflect an	Refer to 3.G.4.a for adding/subtracting within 100 using number lines.	Difference should be positive or 0.	
understanding of place value, the relationship between		Max DOK: 1	Max DOK: 3
addition and subtraction, and the properties of			
operations. Relate the strategy to a written method			
and explain the reasoning used to solve.			
1.N.5 Number and Algebraic Relationships: Students			
will understand and apply properties of operations and			
the relationship between addition and subtraction to			
solve problems.			
	None at this level.	Determines whether equations with whole numbers on both sides of the	Determines whether an e
		equal sign are true. DOK: 1	equal sign is true where
		Determines whether an equation with an operation on one side of the	operations. DOK. 2
		equal sign is true. DOK: 1	Addition and subtraction
		Determines whether an equation with operations on both sides of the equal sign is true. DOK: 1	Max DOK: 2
1 N C a lise the meaning of the equal sign to		Determines whether more than one equation is true. At least one equation	
LIN.5.4 Use the meaning of the equal sign to		must have an operation on at least one side of the equal sign. DUK: 1	
recentime in equations are true and give examples of $a_{1}^{2}$		Addition and subtraction are within 20.	
requations that are true (e.g., $4 = 4$ , $6 = 7 - 1$ , $6 + 3 = 3 + 1$		May DOK 1	
[0, 1 + 2 = 5 + 4].	None at this lovel	IVIAX DUK: 1	Solves subtraction are bl
	וייטווב מג נוווג ופיפו.	the corresponding equation (e.g., Given 12 - ? = 3, determines 12 + 3 = ? To	within 20 - 100. Resulting
1.N.5.b Use the relationship of addition and	Refer to 1.N.4.a for addition and subtraction within 20.	be a corresponding equation with an equivalent unknown.). DOK: 2	ten or only subtracting 1
subtraction to solve subtraction problems (e.g., find 12	Refer to 1 N 5 c for unknowns in addition and subtraction problems		Max DOK: 2
-9 = 0.0000000000000000000000000000000000	Neter to 1.11.5.C for unknowns in addition and subtraction problems.		IVIDX DUK: 2

by subtracting two multiples of 10 without
dding a two-digit number, including multiples of
r without supports provided. May or may not
1
1
dding a multiple of ten to a two-digit number
d. May or may not require regrouping. DOK: 1
dding two, two-digit numbers, neither of which
supports. DOK: 1
54995.01 DOIL 1
20,100 by relating strates at a difference of
20-100 by relating strategy to a written method.
multiples a 10 with 20-100 by relating strategy to
tive or 0
quation with operations on both sides of the
ooth sides of the equal sign use different
are within 20.
ms within 20 - 100 given an addition fact from
ms within 20 - 100 given an addition fact from
ms within 20 - 100 given an addition fact from subtraction should not involve two multiples of
ms within 20 - 100 given an addition fact from subtraction should not involve two multiples of ) (e.g. Given 35 + 12 = 23, what is 35 - 23?). DOK: 2
ms within 20 - 100 given an addition fact from subtraction should not involve two multiples of ) (e.g. Given 35 + 12 = 23, what is 35 - 23?). DOK: 2
ms within 20 - 100 given an addition fact from subtraction should not involve two multiples of ) (e.g. Given 35 + 12 = 23, what is 35 - 23?). DOK: 2

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	None at this level. Refer to 1.N.4.a for addition and subtraction within 20.	Determines an unknown addend in an addition equation with whole numbers within 20 (e.g. $\Delta$ + 13 = 17 What is the value of $\Delta$ ?). DOK: 2	Determines the unknown minuend in a subtraction equation with whole numbers within 20 and a symbol for the unknown (e.g. $\Box$ - 14 = 6 What is the value of $\Box$ ?). DOK: 2
	Refer to 1.N.5.b for using addition facts to solve subtraction problems or determine corresponding addition/subtraction problems from a given problem.	numbers within 20 (e.g. $19 - \Box = 7$ What is the value of $\Box$ ?). DOK: 2 Max DOK: 2	Determines the unknown whole number in more than one addition or subtraction equation with whole numbers within 20 and a symbol for the unknown. Unknowns can be the addend, minuend, or subtrahend, DOK: 2
1.N.5.c Determine the unknown whole number in an	Providina		
addition or subtraction equation (e.g., 7 + ? = 13).			Max DOK: 2
1.N.5.d Use the commutative property of addition to develop addition strategies and compose/decompose numbers to develop addition and subtraction strategies. (See other flexible strategies in 1.N.4.a).		Assessed at the local level	
1.N.5.e Solve problems that call for addition of three	None at this level.	Solve two-step problems that require only addition within 20 (i.e. adding 3	Solve three-step problems that require addition of 3 numbers within 20
whole numbers whose sum is less than or equal to 20		numbers whose sum is less than or equal to 20). DOK: 2	(two steps) and subtraction within 20 (one step). DOK: 2
using flexible strategies with objects, drawings, and/or equations.	Refer to 1.G.3.a for authentic problems involving money.	Max DOK: 2	Max DOK: 2
1.N.5.f Solve authentic problems involving addition and	None at this level.	Solve single-step authentic addition or subtraction problems within 20.	Solve two-step authentic problems that require both addition and
subtraction within 20 in situations of adding to, taking		DOK: 2	subtraction within 20. DOK: 2
from, putting together, taking apart, and comparing,	Refer to 1.G.3.a for authentic problems involving money.	Max DOK: 2	Solve two-step authentic problems that require only subtraction within 20.
with unknowns in all parts of the addition or	Refer to 1.N.5.e for two-step authentic problems involving adding 3		DOK: 2
subtraction problem by using objects, drawings,	numbers within 20.		
and/or equations with a symbol for the unknown	Pofor to 2 N 5 a for authoritic problems within 100		Max DOK: 2
number to represent the problem			
1 N 5 g Create an authentic problem to represent a			
given equation involving addition and subtraction			
within 20			
ALGERRA: Students will solve problems and reason			
with algebra using multiple representations, make			
connections within math and across dissiplines, and			
connections within math and across disciplines, and			
SEE NUMBER AND ALGEBRAIC RELATIONSHIPS IN			
NUMBER (1.N.5)			
GEOMETRY: Students will solve problems and reason			
with geometry using multiple representations, make			
connections within math and across disciplines, and			
communicate their ideas.			
1.G.1 Shapes and Their Attributes: Students will			
represent and describe the attributes of two-			
dimensional shapes.			
	None at this level.	Determines defining and/or non-defining attributes when the attributes	Determines defining and/or non-defining attributes of a two-dimensional
L.G.I.a Determine geometric attributes of two-	Refer to 2.G.1.b for drawing shapes based on number of sides and angles.		shape without a visual given. DOK. 1
dimensional snapes regardless of orientation or size for		Items may include context.	Items may include context.
rnombl, trapezoids, and nexagons (e.g., a nexagon is			Mary DOK 1
closed with six sides).	Name at this loval	IVIdX UUN. I	IVIdX DUN. 1
	inorie al tris level.	are labeled on a three-dimensional shape. DOK: 1	shape without a visual given. DOK: 1
1.G.1.b Determine geometric attributes of three-			
dimensional shapes including cones, cylinders, cubes,		Items may include context.	Items may include context.
and rectangular prisms regardless of orientation or		Max DOK: 1	Max DOK: 1
size.			

	None at this level.	Identifies description of parallel or non-parallel lines. DOK: 1	Identifies shapes that have
		Identifies shapes that have parallel sides when labeled. DOK: 1	Identifies shapes that can'
		Identifies shapes that can't have parallel sides when labeled. DOK: 1	1
1.G.1.c Describe lines and sides of shapes as parallel or		May DOK: 1	Max DOK: 1
non-parallel.		Max DOK: 1	
	Determines the rectangle(s) divided into halves or fourths when the parts are the same shape. Does not use "quarter." DOK: 1	Determines the circle(s) divided into halves or fourths when the parts are the same shape. Does not use "quarter." DOK: 1	Determines the rectangle( parts are the same shape.
	Determines which part/shape represents a half or a fourth of a given rectangle. Does not use "quarter." DOK: 1	Determines which part/shape represents a half or a fourth of a given circle when the parts are the same shape. Does not use "quarter." DOK: 1	Determines which part/sh circle when the parts are t DOK: 1
	Items may include context.	Items may include context.	
	Refer to 2.G.1.d for thirds.	Max DOK: 1	Describes a rectangle or c into halves/fourths or des the shape. The parts are t
	Refer to 2.G.1.e for equal parts that are not the same shape.		
	Max DOK-1		Items may include context
1.G.1.d Partition circles and rectangles into two and			Max DOK: 1
four equal parts using the language halves and fourths.			
1.G.2 Measurement: Students will measure and			
compare lengths.			
	Determines the correct placement of shorter objects used to measure the length of a longer object (e.g., given a pencil, identify the set of paper clips placed end to end, that equals the length of the pencil). Does not require measuring using a ruler. DOK: 1 Determines the number of shorter objects needed to represent the length of a longer object when the shorter objects are already placed end to end (e.g., given a paper clip and a pencil, identify the number of paper clips, end to end, that equals the length of the pencil). Does not require measuring using a ruler. DOK: 1	Determines the number of shorter objects needed to represent the length of a longer object when the shorter object is only shown once (e.g., given a paper clip and a pencil, identify the number of paper clips, end to end, that equals the length of the pencil by placing them next to the pencil). Does not require measuring using a ruler. DOK: 1 Items may include context. Max DOK: 1	None at this level.
1.G.2.a Measure the length of an object as a whole number of same-size, non-standard units by placing them end to end.	Items may include context. Max DOK: 1		
	Identifies when three objects are in order from longest to shortest or shortest to longest based on comparisons to each other or a given object. Does not require measuring using a ruler. DOK: 1 Items may include context.	Places objects in order from longest to shortest or shortest to longest based on comparisons to each other or a given object. Does not require measuring using a ruler. DOK: 1 Items may include context.	Determines the sequence more than three objects. I Items may include context
1 G 2 b Order three objects by directly comparing their	Max DOK: 1	Max DOK: 1	Max DOK: 1
lengths or indirectly by using a third object.			
1.G.3 Time and Money: Students will solve problems			
with coins and tell time to the half hour.			

e parallel sides without a visual given. DOK: 1
't have parallel sides without a visual given DOK:
(s) and/or circle(s) divided into quarters when the May also use halves and fourths. DOK: 1
hape represents a third of a given rectangle or the same shape. May also use halves and fourths.
ircle divided into 2 or 4 equal parts as divided cribes each part as representing a half/fourth of he same shape. DOK: 1
t.
of longest to shortest or shortest to longest for Does not require measuring using a ruler. DOK: 1
t.

	Determines whether the given coins are dimes or pennies. DOK: 1	Solves authentic problems involving dimes and pennies using either	Solves authentic problem
		addition or subtraction within 20, without supports. DOK: 2	and subtraction within 20
	Determines the value, in cents, of a dime or penny. DOK: 1		
	Determines how many pennies are equal in value to a given number of dimos within 100. DOK: 1	solves authentic problems involving dimes and pennies using both addition and subtraction within 20, with supports. One operation does use a visual	without supports. DOK: 2
	unites, within 100. DOK. 1	support. DOK. 2	Solves authentic problem
	Solves authentic problems involving dimes and pennies using either	Solves authentic problems involving only subtraction within 20 - 100 and	within 20 - 100, without s
	addition or subtraction within 20, with supports. DOK: 2	dimes, with supports. (e.g., Zack has 3 dimes. He spends two dimes. How	multiples of 10, added to
		many cents does Zack have left?) DOK: 2	added to a two-digit valu
	May include problems where the only context is the money itself.	Call and the site and have to all the sale as burnetices. This 20, 400 and	Colored the other solution
	converting number of dimes to cents does not count as an operation in this	Solves authentic problems involving only subtraction within 20 - 100 and dimes and pennies with supports where the only values subtracted are	within 20 - 100 with supr
	context. Answers should use cents of the c symbol appropriately.	multiples of 10, (e.g., Zack has 3 dimes and 4 pennies. He spends two	neither are a multiple of
	Refer to 1.N.4.d for subtracting 10 from a two-digit number.	dimes. How many cents does Zack have left?) DOK: 2	
			May include problems whether the second seco
	Refer to 2.G.5.a for problems that include coins/bills other than dimes or	Solves authentic problems involving dimes and pennies using only addition	Converting number of dir
	pennies.	within 20 - 100, with supports. Limited to two-digit values, including	context. Answers should
	Max DOV: 2	multiples of 10, added to one-digit values or values that are multiples of 10	Max DOK: 2
	IVIAX DUK: 2	added to a two-digit value. DOK: 2	Max DOK: 2
		May include problems where the only context is the money itself.	
1 C 2 a Understand the value of dimes and papping		Converting number of dimes to cents does not count as an operation in this	5
1.G.3.a Understand the value of dimes and pennies		context. Answers should use "cents" or the ¢ symbol appropriately.	
(e.g., a dime is equal to ten pennies) relating to tens			
and ones and solve problems involving dimes and		Max DOK: 2	
pennies using the ¢ symbol appropriately.			
1.G.3.b Count collections of like coins (penny, nickel,	Determines what coin can be used to represent a given counting pattern.	Represents a collection of one type of coin with a counting pattern of 1s,	Represents a collection o
and dime) relating to patterns of counting by 1s. 5s	DOK: 1	5s, or 10s. DOK: 1	patterns of 1s, 5s, or 10s.
and 10s	Nov DOV: 1		Mau DOK: 1
	Max DUK: 1	Max DUK: 1 Writes the correct time to the nearest hour or half-hour using an analog	Max DUK: 1 Explains or justifies given
	clock. Does not require reference to a.m. or p.m. DOK: 1	clock. Does not require reference to a.m. or p.m. DOK: 2	representations on a digit the minute hand at the 6
	Identifies the correct time to the nearest hour or half-hour using an analog	Represents a given time to the nearest hour or half-hour on an analog	
	clock. Does not require reference to a.m. or p.m. DOK: 1	clock. DOK: 1	Items may include contex
	Items may include context.	Items may include context.	Max DOK: 3
	Refer to 2.G.5.b for determining a.m. or p.m.	Max DOK: 2	
	Refer to 3.G.4.a for time interval terms (quarter to/past, half past, etc.).		
	Refer to 3.G.4.b for elapsed time problems.		
	Max DOK: 1		
1.G.3.c Tell and write time to the half hour and hour			
using analog and digital clocks.			
DATA: Students will solve problems and reason with			
data/probability using multiple representations make			
connections within math and across disciplines, and			
connections within math and across disciplines, and			
communicate their ideas.			
1.D.1 Data Collection: Students will formulate			
questions to collect, organize, and represent data.			

ns involving dimes and pennies using both addition ) without supports. DOK: 2
ns involving only dimes and subtraction within 100,
ns involving dimes and pennies using only addition supports I. Limited to two-digit values, including one-digit values or values that are multiples of 10 e. DOK: 2
ns involving dimes and pennies using only addition ports, when adding two, two-digit values and 10. DOK: 2
here the only context is the money itself. mes to cents does not count as an operation in this use "cents" or the ¢ symbol appropriately.
f two types of coins with two sets of counting DOK: 1
times to the nearest hour or half-hour and their tal or analog clock (e.g., explains why a clock with represents 30 minutes or the half-hour). DOK: 3 xt.

	Identifies a pictograph with a scale of 1 that represents a given data set $^{ m ype}$	Creates a pictograph with up to three categories and a scale of 1. Includes	Answers multiple questio
	with up to three categories. DOK: 1	answering a question about steps in creating the graph. DOK: 2	of 1 and up to three categ
	Refer to 2.D.2.a for pictographs with four categories.	Identifies a pictograph with a scale of 1 and up to three categories that	Analyzes pictographs with
		represents an incomplete data set. Determining quantity differences or	to their corresponding da
	Refer to 1.D.2.a for interpreting and solving problems using information	comparisons is not required. (e.g., Three categories are present in options	created given a data set a
	provided in pictographs with a scale of 1 and up to three categories.	but data is given for 2 categories where only one option has the correct	data). DOK: 3
		values represented for the given categories.) DOK: 1	
	Max DOK: 1		Max DOK: 3
1.D.1.a Collect, organize, and represent a data set with		Max DOK: 2	
up to three categories using a picture graph.			
1.D.2 Analyze Data and Interpret Results: Students will			
analyze the data and interpret the results.			
	Solves problems by reading information from pictographs with a scale of 1	Solves comparison problems (more/less/same) and quantity-difference	Identifies a pictograph wi
	and up to three categories. (e.g. How many students voted for dog as their	problems (how many more/how many less) by reading information from	represents an incomplete
	favorite pet? How many students voted overall?) DOK: 2	pictographs with a scale of 1 and up to three categories. (e.g. Which animal	comparisons and quantity
		was voted as the favorite pet? How many more students voted for dog	
	Addition is within 20.	than cat?) DOK: 2	Ex: Ty, Deb, and Fred have
			Fred each have the same
	Refer to 2.D.2.a for pictographs with four categories.	Addition or subtraction is within 20.	data?
		Mari DOV. 2	
	Max DUK: 2	Max DOK: 2	Analyzes statements about
			cata representeu in a pici
1.D.2.a Ask and answer questions about the total			categories. (e.g., determining
number of data points, how many in each category			misreading the mormatio
number of data points, now many in each category,			Addition or subtraction is
and compare categories by identifying how many more			Audition of subtraction is
or less are in a particular category using a picture			Max DOK: 3
			IVIAN DUN. 5
lgraph.	1		

ons about the creation of a pictograph with a scale gories. DOK: 2

th up to three categories and a scale of 1 in relation ata (e.g., explains an error in how a pictograph was and a pictograph that incorrectly represents the

ith a scale of 1 and up to three categories that e data set that requires interpretation, including y differences. DOK: 2

ve a total of 12 points. Ty has 8 points. Deb and e number of pencils. Which pictograph shows this

ut comparisons or quantity differences based on tograph with a scale of 1 and up to three ine the error in a given statement caused by ion in the pictograph). DOK: 3

s within 20.