

Task Model 1	Prompt Features: The student is prompted to find the quotient of multi-digit numbers with or without a remainder.
Response Type: Equation/Numeric DOK Level 1 6.NS.B.2 Fluently divide multi-digit numbers using the standard	 Stimulus Guidelines: The expression should be in the form x ÷ y, where x is a 4-6-digit positive integer and y is a 2-5-digit positive integer. Exception: do not have x as a 4-digit number and y as a 2-digit number without a remainder. Generally answers with remainders should terminate no greater than the hundredths place. Item difficulty can be adjusted via these example methods:
algorithm. Evidence	 Students find quotient with no remainder (4-digit divided by 3-digit). Students find quotient with no remainder (5- or 6-digit
Required: 1. The student divides multi-digit numbers.	 divided by 2- or 3-digit). Students find quotient with a remainder (4- or 5-digit divided by 2- or 3-digit). Students find quotient with a remainder or students
Tools: None	 interpret a division algorithm (4-digit divided by 4-digit; 6-digit divided by 2- or 3-digit). Students find quotient with a remainder (5-digit divided by 4- or 5-digit; 6-digit divided by 4-, 5-, or 6-digit).
	TM1 Stimulus: The student is presented with a division expression.
	Example Stem 1: Divide.
	16,536 ÷ 24
	Enter the exact quotient.
	Example Stem 2: Divide.
	35,702 ÷ 25
	Enter the exact quotient.
	Rubric: (1 point) Student enters the correct quotient (e.g., 689; 1428.08).
	Response Type: Equation/Numeric



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Task Model 2	Prompt Features: The student is prompted to find the sum, difference, product, or quotient of multi-digit numbers with or
Response Type:	without a remainder using the standard algorithm.
Equation/Numeric	Chimadaa Cuidalinaa
DOK Level 1	Given numbers and answers should be nositive
DOR LEVEL I	 Item difficulty can be adjusted via these example methods:
6.NS.B.3	 Students add two multi-digit decimals; at least one
Fluently add,	decimal in thousandths.
subtract, multiply,	 Students add two multi-digit decimals, at least one
and divide multi-digit	decimal in ten-thousandths OR add three multi-digit
decimals using the	ten-thousandths.
standard algorithm	 Students subtract two multi-digit decimals, at least
for each operation.	one decimal in thousandths or ten thousandths.
Fvidence	 Students multiply two multi-digit decimals, at least
Required:	\sim Students find quotient of multi-digit decimals, at least
2. The student adds,	one decimal to thousandths OR product of two
subtracts, multiplies,	multi-digit decimals, at least one decimal in
and divides	ten-thousandths.
multi-digit decimals.	TM2a
Tools: None	Stimulus: The student is presented with an addition expression with
	two or three terms.
	Example Stem: Add.
	34.381 + 8.2
	Enter the exact sum.
	Rubric: (1 point) Student enters the correct sum (e.g., 42.581).
	Response Type: Equation/Numeric
	TM2b Stimulus: The student is presented with a subtraction expression
	with two terms.
	Example Stem: Subtract.
	48.235 - 29.67
	Enter the exact difference.
	Rubric: (1 point) Student enters the correct difference (e.g., 18.565).
	Response Type: Equation/Numeric



TM2c Stimulus: The student is presented with a multiplication expression
with two decimals.
Example Stem: Multiply.
8.296 • 0.8
Enter the exact product.
Rubric: (1 point) Student enters the correct product (e.g., 6.6368).
Response Type: Equation/Numeric
 TM2d Stimulus: The student is presented with a division expression with two decimals. The divisor place value should be to the tenths or hundredths and the dividend place value should be at the thousandths or the ten-thousandths. Answers should be a positive answer that terminates no greater than the thousandths place. Example Stem: Divide. 0.912 ÷ 0.24 Enter the exact quotient. Rubric: (1 point) Student enters the correct quotient (e.g., 3.8). Response Type: Equation/Numeric
TSME 8 = R R TST E 0 = F F



Task Model 2 Response Type: Equation/Numeric	 Prompt Features: The student is prompted to reason and interpret about addition, subtraction, multiplication, or division problems. Stimulus Guidelines: Given numbers and answers should be positive and item difficulty can be adjusted by changing whether the
DOK Level 2	given equation is addition, subtraction, multiplication, or division.
6.NS.B.3 Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm	 TM2e Stimulus: The student is presented with an addition/subtraction/multiplication/division equation. Example Stem: Use the fact that 12 • 218 = 2616.
Evidence Required:	Rubric: (1 point) Student enters the correct product (e.g., 2.616).
2. The student adds, subtracts, multiplies, and divides multi-digit decimals.	Note: Students should be able to determine the product without calculating it, but instead by using the given computation and reasoning skills.
Tools: None	Response Type: Equation/Numeric



Task Model 3	Prompt Features: The student is prompted to find the greatest
	common factor of two whole numbers.
Response Type:	
Equation/Numeric	Stimulus Guidelines:
	Greatest common factor should be greater than 1.
DOK Level 1	Whole numbers should be less than or equal to 100.
	• Item difficulty can be adjusted via these example methods:
Find the greatest	• Students find GCF of two whole numbers (both
common factor of	Students find CCE of two whole numbers (CCE
	between 10 and 20)
	\circ Students find GCE of two whole numbers (one of the
less than or equal to	numbers is a multiple of 5, the other is a multiple of
100 and the least	10).
common multiple of	 Students find GCF of two whole numbers (one of the
two whole numbers	numbers is a prime number greater than 20 and is a
less than or equal to	factor of the other number).
12. Use the	
distributive property	ТМЗ
to express a sum of	Stimulus: The student is presented with two whole numbers less
two whole numbers	than 100.
1–100 with a	
common factor as a	Example Stem: Enter the greatest common factor of 24 and 36.
multiple of a sum of	
two whole numbers	Rubric: (1 point) Student enters the correct greatest common factor
with no common	(e.g., 12).
factor. For example.	
express $36 + 8$ as	Response Type: Equation/Numeric
4(9+2)	
Fvidence	
Required:	
3. The student	
determines the	
greatest common	
factor of two whole	
numbers	
Tools: None	



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lask Model 4	Prompt Features: The student is prompted to find the least
D	common multiple of two whole numbers.
Response Type:	Chimadaa Cuidalinaa
Equation/Numeric	Stimulus Guidelines:
DOK Lavel 1	• Whole numbers should be less than or equal to 12.
DOK LEVEL I	Item difficulty can be adjusted via these example methods:
	• Students find LCM of two whole numbers (one of the
Find the greatest	numbers is 2).
common factor of	 Students find LCM of two whole numbers (one of the numbers is Euclidean house lower than 6.1 CM is loss
	than 20)
two whole numbers	Students find LCM of two whole numbers (one of the
less than or equal to	numbers is less than 6 the other number is greater
100 and the least	than 6. I CM is less than 40)
common multiple of	\circ Students find LCM of two whole numbers (LCM is
two whole numbers	greater than 40).
less than or equal to	gi calca citati coji
12. Use the	ТМ4
distributive property	Stimulus: The student is presented with two whole numbers less
to express a sum of	than 12.
two whole numbers	
1-100 with a	Example Stem: Enter the least common multiple of 6 and 8.
common factor as a	
	Rubric: (1 point) Student enters the correct least common multiple
	(a - 24)
two whole numbers	(e.g., 2+).
with no common	Desarra Trans Countiers (Numeratie
factor. For example,	Response Type: Equation/Numeric
express 36 + 8 as	
4(9+2).	
Evidence	
Required:	
4. The student	
determines the least	
common multiple of	
two whole numbers.	

Tools: None



Response Type: Equation/Numeric

DOK Level 2

Task Model 5

6.NS.B.4

Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1-100 with a common factor as a multiple of a sum of two whole numbers with no common factor. For example, express 36 + 8 as 4(9 + 2).

Evidence Required:

5. The student uses the distributive property to express a sum of two whole numbers with a common factor as a multiple of a sum of two whole numbers with no common factor.

Tools: None

Prompt Features: The student is prompted to identify equivalent expressions using the distributive property.

Stimulus Guidelines:

- The expression should be in the form x + y = a (b + c) or a (b + c) = x + y where x, y, a, b, and c are whole numbers between 1 and 100.
- *x* and *y* should have a common factor greater than 1.
- The missing number may be any of the variables *x*, *y*, *a*, *b*, and *c*.
- Item difficulty can be adjusted via these example methods:
 Use only even numbers less than 20.
 - Use only numbers less than 70.
 - Use at least two numbers greater than 70.

TM5

Stimulus: The student is presented with an equation showing the distributive property with a missing number.

Example Stem: Consider the equation.



Enter the unknown number that makes the equation true.

Rubric: (1 point) Student enters the correct value (e.g., 5).

Response Type: Equation/Numeric