

Module 3: Multiplication and Division with Units of 0, 1, 6–9, and Multiples of 10 (Trimester 2: 25 Days)

Topic A	The Properties of Multiplication and Division		3.OA.4 3.OA.5 3.OA.7 3.OA.9 3.OA.1 3.OA.2 3.OA.3 3.OA.6
Topic B	Multiplication and Division Using Units of 6 and 7		3.OA.3 3.OA.4 3.OA.5 3.OA.7 3.OA.1 3.OA.2 3.OA.6
ASSESSMENT	3.OA.1, 2	Reporting Strand: Multiplies and divides using properties and to solve word problems	Report Card: 0-4
Topic C	Multiplication and Division Using Units up to 8		3.OA.3 3.OA.4 3.OA.5 3.OA.7 3.OA.1 3.OA.2 3.OA.6 3.OA.8
Topic D	Multiplication and Division Using Units of 9		3.OA.3 3.OA.4 3.OA.5 3.OA.7 3.OA.9 3.OA.1 3.OA.2 3.OA.6
ASSESSMENT	3.OA.4	Reporting Strand: Multiplies and divides using properties and to solve word problems	Report Card: 0-4
Topic E	Analysis of Patterns and Problem Solving Including Units of 0 and 1		3.OA.3 3.OA.7 3.OA.8 3.OA.9
ASSESSMENT	3.OA.3 3.OA.5, 6	Reporting Strand: Multiplies and divides using properties and to solve word problems	Report Card: 0-4
Topic F	Multiplication of Single-Digit Factors and Multiples of 10		3.OA.5 3.OA.8 3.OA.9 3.NBT.3 3.OA.1
ASSESSMENT	3.OA.8 3.OA.9	Reporting Strand: Multiplies and divides using properties and to solve word problems	Report Card: 0-4
ASSESSMENT	3.NBT.3	Reporting Strand: Uses place value understanding to perform multi-digit arithmetic	Report Card: 0-4

- 3.OA.3** Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. (See Standards Glossary, Table 2.)
- 3.OA.4** Determine the unknown whole number in a multiplication or division equation relating three whole numbers. *For example, determine the unknown number that makes the equation true in each of the equations $8 \times ? = 48$, $5 = \underline{\quad} \div 3$, $6 \times 6 = ?$*
- 3.OA.5** Apply properties of operations as strategies to multiply and divide. (Students need not use formal terms for these properties.) *Examples: If $6 \times 4 = 24$ is known, then $4 \times 6 = 24$ is also known. (Commutative property of multiplication.) $3 \times 5 \times 2$ can be found by $3 \times 5 = 15$, then $15 \times 2 = 30$, or by $5 \times 2 = 10$, then $3 \times 10 = 30$. (Associative property of multiplication.) Knowing that $8 \times 5 = 40$ and $8 \times 2 = 16$, one can find 8×7 as $8 \times (5 + 2) = (8 \times 5) + (8 \times 2) = 40 + 16 = 56$. (Distributive property.)*
- 3.OA.7** Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.
- Solve problems involving the four operations, and identify and explain patterns in arithmetic.58**
- 3.OA.8** Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.
- 3.OA.9** Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. *For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends.*
- 3.NBT.3** Multiply one-digit whole numbers by multiples of 10 in the range 10–90 (e.g., 9×80 , 5×60) using strategies based on place value and properties of operations.

Reporting Strand: Multiplies and divides using properties and to solve word problems

CCSS	4 – Mastery	3- Proficient	2 – Basic	1 – Below Basic	0 – No Evidence
3.OA.1	<p>Can extend thinking beyond the standard, including tasks that may involve one of the following:</p> <ul style="list-style-type: none"> • Designing • Connecting • Synthesizing • Applying • Justifying • Critiquing • Analyzing • Creating • Proving 	<p>Explain the meaning of whole number multiplication problems by showing/ explaining all the following</p> <ul style="list-style-type: none"> • the number of groups • number of objects in each group • what the product represents 	<p>Explain the meaning of whole number multiplication problems by showing/ explaining 2 the following</p> <ul style="list-style-type: none"> • the number of groups • number of objects in each group • what the product represents 	<p>Explain the meaning of whole number multiplication problems by showing/ explaining 1 the following</p> <ul style="list-style-type: none"> • the number of groups • number of objects in each group • what the product represents 	<p>Little evidence of reasoning or application to solve the problem</p> <p>Does not meet the criteria in a level 1</p>
3.OA.2		<p>Interpret the meaning of whole number division problems by showing/ explaining all of the below</p> <ul style="list-style-type: none"> • How many objects are in each group so that the groups are equal • How many equal groups can you make • What the quotient represents 	<p>Interpret the meaning of whole number division problems by showing/ explaining 2 of the below</p> <ul style="list-style-type: none"> • How many objects are in each group so that the groups are equal • How many equal groups can you make • What the quotient represents 	<p>Interpret the meaning of whole number division problems by showing/ explaining 1 of the below</p> <ul style="list-style-type: none"> • How many objects are in each group so that the groups are equal • How many equal groups can you make • What the quotient represents 	
3.OA.3		<p>Use multiplication and division within 100 to solve word problems using drawings and equations with a symbol representing the unknown involving all of the types of problems below:</p> <ul style="list-style-type: none"> • Equal groups • Arrays/Area • Compare/Measurement quantities 	<p>Use multiplication and division within 100 to solve word problems using drawings and/or equations with a symbol representing the unknown involving 2 types of problems below:</p> <ul style="list-style-type: none"> • Equal groups • Arrays/Area • Compare/Measurement quantities 	<p>Use multiplication and division within 100 to solve word problems using drawings and/or equations with a symbol representing the unknown involving 1 types of problems below:</p> <ul style="list-style-type: none"> • Equal groups • Arrays/Area • Compare/Measurement quantities 	
3.OA.4		<p>Solve multiplication and division equations when the unknown is in any of the three positions.</p>	<p>Solve multiplication and division equations when the unknown is in any of the two positions.</p>	<p>Solve multiplication and division equations when the unknown is in one position.</p>	
3.OA.5, 3.OA.6		<p>Accurately multiply and divide within 100 using at least 3 strategies:</p> <ul style="list-style-type: none"> • The relationship between multiplication and division • Skip Counting/count by • Distributive Property • Commutative Property • Associative Property 	<p>Accurately multiply and divide within 100 using at least 2 strategies:</p> <ul style="list-style-type: none"> • The relationship between multiplication and division • Skip Counting/count by • Distributive Property • Commutative Property • Associative Property 	<p>Accurately multiply and divide within 50 using at least 1 strategy:</p> <ul style="list-style-type: none"> • The relationship between multiplication and division • Skip Counting/count by • Distributive Property • Commutative Property • Associative Property 	
3.OA.8		<p>Solve two-step word problems using the four operations and creating equations with a letter for the unknown and determine the reasonableness of the answer</p>	<p>Solve two-step word problems using the four operations and creating equations with a letter for the unknown.</p>	<p>Solve two-step word problems using the four operations</p>	
3.OA.9		<p>Identify and explain patterns using properties of operations.</p>	<p>Identify patterns using properties of operations.</p>	<p>Identify patterns in the addition table or the multiplication table</p>	

Reporting Strand: Uses place value understanding to perform multi-digit arithmetic

CCSS	4 – Mastery	3- Proficient	2 – Basic	1 – Below Basic	0 – No Evidence
3.NBT.3	<p>Can extend thinking beyond the standard:</p> <ul style="list-style-type: none"> • Designing • Connecting • Synthesizing • Applying • Justifying • Critiquing • Analyzing • Creating 	<p>Multiply one-digit whole numbers by multiples of 10 in the range of 10-90 demonstrating place value and properties of operations (For example, $4 \times 90 = 4 \times 9 \times 10$)</p>	<p>Multiply one-digit whole numbers by multiples of 10 (in the range of 10-90)</p>	<p>Multiply one-digit whole numbers by 10</p>	<p>Little evidence of reasoning or application to solve the problem</p> <p>Does not meet the criteria in a level 1</p>

Multiplica y divide usando propiedades y para resolver problemas de palabras

CCSS	4 – Dominio	3- Apto	2 – Básico	1 – Por debajo de lo Básico	0 – No hay Evidencia
3.OA.1		<p>Explica el significado de problemas con multiplicación de números entero demostrando/explicando todo lo siguiente:</p> <ul style="list-style-type: none"> • Número de grupos • Número de objetos en cada grupo • Lo que representa el total 	<p>Explica el significado de problemas con multiplicación de números entero demostrando/explicando dos de lo siguiente:</p> <ul style="list-style-type: none"> • Número de grupos • Número de objetos en cada grupo • Lo que representa el total 	<p>Explica el significado de problemas con multiplicación de números entero demostrando/explicando 1 de lo siguiente:</p> <ul style="list-style-type: none"> • Número de grupos • Número de objetos en cada grupo • Lo que representa el total 	
3.OA.2	<p>Puede pensar más allá del estándar, incluyendo tareas que puedan involucrar uno de los siguientes aspectos:</p> <ul style="list-style-type: none"> • Diseñar • Conectar • Sintetizar 	<p>Interpreta el significado de los problemas con division de números enteros demostrando/explicando todo lo siguiente</p> <ul style="list-style-type: none"> • Cuántos objetos hay en cada grupo para que los grupos sean iguales • Cuántos grupos iguales puedes hacer • Qué representa el total 	<p>Interpreta el significado de los problemas con division de números enteros demostrando/explicando dos de lo siguiente</p> <ul style="list-style-type: none"> • Cuántos objetos hay en cada grupo para que los grupos sean iguales • Cuántos grupos iguales puedes hacer • Qué representa el total 	<p>Interpreta el significado de los problemas con division de números enteros demostrando/explicando uno lo siguiente</p> <ul style="list-style-type: none"> • Cuántos objetos hay en cada grupo para que los grupos sean iguales • Cuántos grupos iguales puedes hacer • Qué representa el total 	<p>Hay poca evidencia de razonamiento o aplicación para resolver el problema</p>
3.OA.3	<ul style="list-style-type: none"> • Aplicar • Justificar • Criticar • Analizar • Crear • Demostrar 	<p>Usa la multiplicación y división hasta 100 para resolver problemas de palabras usando dibujos y ecuaciones con un símbolo representando el valor desconocido en todos los siguientes tipos de problemas:</p> <ul style="list-style-type: none"> • Grupos iguales • Matrices/área • Comparar/Medir cantidades 	<p>Usa la multiplicación y división hasta 100 para resolver problemas de palabras usando dibujos y/o ecuaciones con un símbolo representando el valor desconocido en dos los siguientes tipos de problemas:</p> <ul style="list-style-type: none"> • Grupos iguales • Matrices/área • Comparar/Medir cantidades 	<p>Usa la multiplicación y división hasta 100 para resolver problemas de palabras usando dibujos y/o ecuaciones con un símbolo representando el valor desconocido en uno los siguientes tipos de problemas:</p> <ul style="list-style-type: none"> • Grupos iguales • Matrices/área • Comparar/Medir cantidades 	<p>No reúne los criterios del nivel 1</p>
3.OA.4		<p>Resuelve ecuaciones de multiplicación y division cuando el valor desconocido está en cualquiera de las tres posiciones.</p>	<p>Resuelve ecuaciones de multiplicación y division cuando el valor desconocido está en cualquiera de estas dos posiciones.</p>	<p>Resuelve ecuaciones de multiplicación y division cuando el valor desconocido está en una posición.</p>	

3.OA.5, 3.OA.6		Multiplica y divide con fluidez hasta 100 usando al menos 3 estrategias como: <ul style="list-style-type: none"> • La relación entre la multiplicación y la división • Contar de (2 en 2, 5 en 5...) • Propiedad Distributiva • Propiedad Conmutativa • Propiedad Asociativa 	Multiplica y divide con fluidez hasta 100 usando al menos 2 estrategias como: <ul style="list-style-type: none"> • La relación entre la multiplicación y la división • Contar de (2 en 2, 5 en 5...) • Propiedad Distributiva • Propiedad Conmutativa • Propiedad Asociativa 	Multiplica y divide con fluidez hasta 50 usando al menos 1 estrategias como: <ul style="list-style-type: none"> • La relación entre la multiplicación y la división • Contar de (2 en 2, 5 en 5...) • Propiedad Distributiva • Propiedad Conmutativa • Propiedad Asociativa 	
3.OA.8		Resuelve problemas verbales de dos pasos usando las cuatro operaciones y creando ecuaciones con una letra para la cantidad desconocida y determina lo razonables que son las respuestas	Resuelve problemas verbales de dos pasos usando las cuatro operaciones y creando ecuaciones con una letra para la cantidad desconocida	Resuelve problemas verbales de dos pasos usando las cuatro operaciones	
3.OA.9		Identifica y explica los patrones usando las propiedades de las operaciones.	Identifica patrones usando las propiedades de las operaciones	Identifica patrones <i>in la table de suma o la tabla de multiplicación</i>	

Utiliza la comprensión del valor posicional para realizar operaciones aritméticas de varios dígitos

CCSS	4 – Dominio	3- Apto	2 – Básico	1 – Por debajo de lo Básico	0 – No hay Evidencia
3.NBT.3	Puede pensar más allá del estándar: <ul style="list-style-type: none"> • Diseñar • Conectar • Sintetizar • Aplicar • Justificar • Criticar • Analizar • Crear • Demostrar 	Multiplica números enteros de un dígito por múltiplos de 10 en el rango de 10-90 demostrando valor posicional y propiedades de las operaciones (Por ejemplo, $4 \times 90 = 4 \times 9 \times 10$)	Multiplica números enteros de un dígito por múltiplos de 10 en el rango de 10-90	Multiplica números enteros de un dígito por 10	Hay poca evidencia de razonamiento o aplicación para resolver el problema No reúne los criterios del nivel 1