

Properties of

Multiplication

Identity Property

The product of any number and one is that number.

$$4 \times 1 = 4$$

Zero Property

The product of any number and zero is zero.

$$3 \times 0 = 0$$

Associative Property

You can group factors in different ways and still get the same product.

$$2 \times (3 \times 4) = 24$$
$$(2 \times 3) \times 4 = 24$$

Commutative Property

When you change the order of the factors, the product stays the same.

$$5 \times 6 = 30$$
$$6 \times 5 = 30$$

Distributive Property

Multiplying a sum by a number is the same as multiplying each addend by the number and then adding the products.

$$6 \times 7 = (3 \times 7) + (3 \times 7)$$

DOK LEVELS: check list ✓

- I can **draw** the different properties to understand how to multiply the factors / **Puedo dibujar las diferentes propiedades para entender cómo multiplicar los factores**
- I can **categorize** the different multiplication equations to the correct property of multiplication / **Puedo categorizar las diferentes ecuaciones de multiplicación a la propiedad correcta de la multiplicación**
- I can **explain** my understanding of the properties of multiplication when solving the problems using the different strategies. / **Puedo explicar mi comprensión de las propiedades de la multiplicación al resolver los problemas utilizando las diferentes estrategias.**

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Vocabulary: match the EQUATIONS with the Property / hacer coincidir las ECUACIONES con la propiedad

ZERO PROPERTY	$10 \times 1 = 10$
COMMUTATIVE PROPERTY	$2 \times (4 \times 1) = 8$ / $(2 \times 4) \times 1 = 8$
ASSOCIATIVE PROPERTY	$4 \times 5 = 20$ / $5 \times 4 = 20$
DISTRIBUTIVE PROPERTY	$4 \times 7 = (2 \times 7) + (2 \times 7)$
IDENTITY PROPERTY	$3 \times 0 = 0$

Draw a line from the vocabulary to the equation / dibuja una línea al vocabulario hasta la ecuación.

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S.M.A.R.T GOAL T1

S

My goal is to

M

I will be able to get at least ____%

A

I will achieve my goal by doing the following

R

This goal helps me because

T

I will complete my goal by

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Learning Target 1: I can multiply within 100/ Puedo multiplicar entre 100.


Goal by / Meta por








Drag the  when you complete an activity /
Arrastra la  cuando completes una actividad





Pre-Assessment:score (paper and pencil)
80% or higher for mastery


Post Assessment:score (paper and pencil)
80% or higher for mastery





 **Sra. Caraballo: Write and Solve Task Cards:**


-  Reteach how to multiply 2 and 5
-  teach how to multiply 3s and 4s
-  Reteach facts 2-7 with strategy
-  Reteach facts up to 10 with two digit numbers




 I-Ready Lessons:


-  Lesson:Skip counting by 2, 5, 10 Lesson 3. OA. 1
-  Lesson: 3.OA.1: Repeated addition
-  Lesson: 3.OA.5: multiply
-  Lesson: 3.OA.5 Multiply & divide





 Ready Classroom Workbook


-  Pages: Extend lesson 1
-  Pages: Extend Lesson 2
-  Pages: Extend lesson 3
-  Pages: Extend Lesson 4

 **Youtube** Video and Reflect:

-  [Skip within hundred 10,100,1000](#)
-  [Intro to 3.OA.7 and 100](#)
-  [Multiply within 100 in seconds](#)

 Interactive Notebook:

-  Commutative Property Sheet
-  Associative Property Sheet
-  Associative Word Problem
-  Create a Mini quiz: Associative

 Free Choice

- Multiplication Color Sheet
- Prodigy Lesson
- Game Board Sheet

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S.M.A.R.T GOAL T2

S

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Learning Target 2:

I can explain how the properties of Multiplications work./ Puedo explicar cómo las propiedades de multiplicacion trabaja.

Goal by / Meta por



Drag the when you complete an activity / Arrastra la cuando completes una actividad

Pre-Assessment:score _____ (paper and pencil)
80% or higher for mastery

Post Assessment:score _____ (paper and pencil)
80% or higher for mastery

Sra. Caraballo: Write and Solve Task Cards:

- Solve the drill sheet *
- Reteach lesson 2
- Reteach Lesson 3
- Reteach Lesson 4

I-Ready Lessons:

- Lesson 3.OA.5 (1)
- Lesson 3.OA.5 (2)
- Lesson 3.OA.5 (3)
- Lesson 3.OA.5 (4-5)

Ready Classroom Workbook Pages

- Pages: extend lesson 3
- Extend Lesson 4
- Extend Lesson 5
- Extend Lesson 6

YouTube Video and Reflect:

- [Properties of Multiplication](#)
- [Properties of X \(McCarthy\)](#)
- [What are Properties of "X"?](#)
- [Multiplication Properties](#)

Free Choice

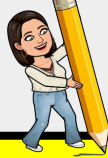
- Color Sheet
- Prodigy
- Toothy

Roll the Dice and Create:

- Commutative Property: use colors to show the factors/product
- Associative Property: sheet
- Distributive Property: Break apart
- All Properties Sheet

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S.M.A.R.T GOAL T3

S

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Learning Target 3:

I can apply properties of operations as strategies to multiply. / Puedo aplicar las propiedades de operaciones como estrategias de multiplicar.

Goal by / Meta por



Drag the when you complete an activity / Arrastra la cuando completes una actividad

Pre-Assessment: score _____ (paper and pencil)
80% or higher for mastery

Post Assessment: score _____ (paper and pencil)
80% or higher for mastery

Sra. Caraballo: Write and Solve Task Cards:

- Reteach task card 4
- Reteach Task 6
- Reteach Task 8
- Reteach task 10

I-Ready Lessons:

- Practice Interactive 1
- Practice Interactive 2
- Practice Interactive 3
- Practice Interactive 4

Free Choice

- Properties of Multiplication sheet
- Prodigy
- Color Sheet

YouTube Video and Reflect:

- [Apply Properties of Multiplication](#)
- [Properties of Multiplication](#)
- [Mr. J Multiplication](#)
- [Distributive Property](#) w/Ms. B

Interactive Notebook:

- Common Core sheet 1
- Common Core sheet 2
- Common Core Sheet 3
- Common Core Sheet 6

Roll the Math and Create:

- Commutative Property sheet
- Commutative Property sheet 2
- Associative /Distributive Property
- Distributive Property

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S.M.A.R.T GOAL T4

S

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A

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R

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T

I will complete my goal by

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Associative Property

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Commutative Property

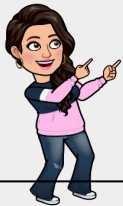
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$$6 \times 7 = (3 \times 7) + (3 \times 7)$$



Learning Target 4:

I can solve the different properties of multiplication./ Puedo resolver problemas usando las propiedades de multiplicacion.

Goal by / Meta por



Drag the when you complete an activity / Arrastra la cuando completes una actividad

Pre-Assessment:score _____ (paper and pencil)
80% or higher for mastery

Post Assessment:score _____ (paper and pencil)
80% or higher for mastery

Sra. Caraballo: Write and Solve Task Cards:

- Reteach task card 1
- Reteach Task 4
- Reteach Task 3
- Reteach task 2

I-Ready Lessons:

- Practice Interactive 1
- Practice Interactive 2
- Practice Interactive 3
- Practice Interactive 4

Free Choice

- Properties of Multiplication sheet
- Common core sheet
- Color Sheet

YouTube Video and Reflect:

- [Apply Properties of Multiplication](#)
- [Properties of Multiplication](#)
- [Mr. J Multiplication](#)
- [Distributive Property](#) w/Ms. B

Interactive Notebook:

- FOldable Properties 1
- Foldable Properties 2
- Foldable Properties 3
- FOldable Properties 4

Roll the Math and Create:

- Commutative Property sheet
- Commutative Property sheet 2
- Associative /Distributive Property
- Distributive Property

Reflect and Ready to Move on to Learning Map 5
Reflexione y esté listo para pasar al mapa de aprendizaje 5

Why are you ready to move on? Explain. / ¿Por qué estás listo para seguir adelante? Explicar.

Type here:



How's
it
GOIN?