Student Mini-Journal

The following pages are designed for your students to use as you work your way through the different properties of multiplication. Each property includes the following pages:

- **Introduction:** This page introduces the definition of the property along with an example and picture to represent the problem.
- **Guided Practice:** This page is designed for you to work with your students through the new material.
- **Independent Practice:** This page is designed for your students to work independently on the new material.

To Assemble Journal:

- Print the pages you want to use with your students.
- Put all pages together in the order you want to use them.
- Put two staples along the left hand side.
- Cut the entire stack in half.

You will have 2 journals for every one copy you make of the following pages!

**The Commutative Property of Multiplication includes two different explanations and examples. Use the first example indefinitely, and use the second example at your discretion based on the needs of your students.

Suggestions:

- Print double sided to save paper!
- If your copier staples, set the copier to use two staples on the left side. Once journals are printed, cut in half and they are ready to go!

Student Mini-Journal

Each daily lesson has three parts:

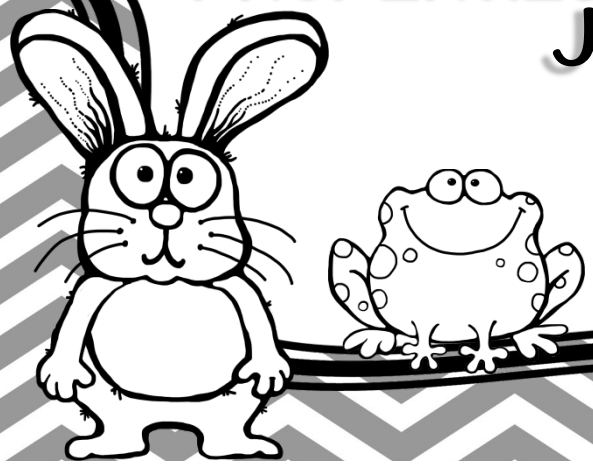
- **Teacher led example** *
The teacher led example includes the objective for the lesson, a definition for the property, an example, and a picture to represent the example.

- **Guided practice** *
Guided practice includes 6 problems to work through together.

- **Independent practice** *
Independent practice includes 6 problems students should work through independently as you informally assess their progress.

_____'s

PROPERTIES of MULTIPLICATION JOURNAL



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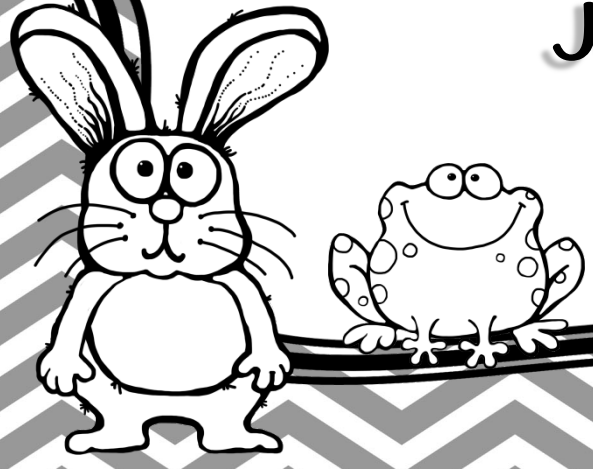

Vocabulary

Date: _____

Before we learn our PROPERTIES OF MULTIPLICATION, let's review some important words!

Factor: Factors are numbers that you multiply together.
Product: A product is the answer to a multiplication problem.

3 x 2 = 6

3 and 2 are factors! 6 is the product!

Addend: Addends are numbers that you add together.

3 + 2 = 5

3 and 2 are addends!

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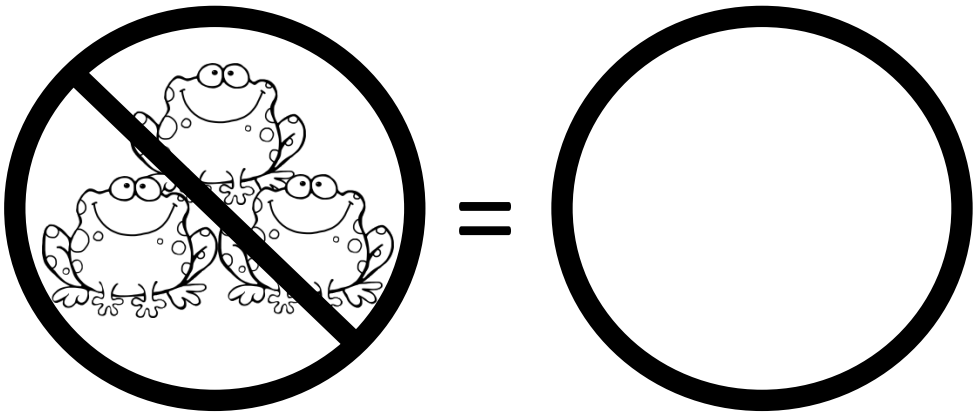
Today, I am learning about the ZERO PROPERTY OF MULTIPLICATION.

The **ZERO PROPERTY OF MULTIPLICATION** tells me that I can multiply any number by ZERO, and the PRODUCT will be ZERO!

0 x 3 = 0 If I have ZERO groups of 3 frogs, I have ZERO frogs.



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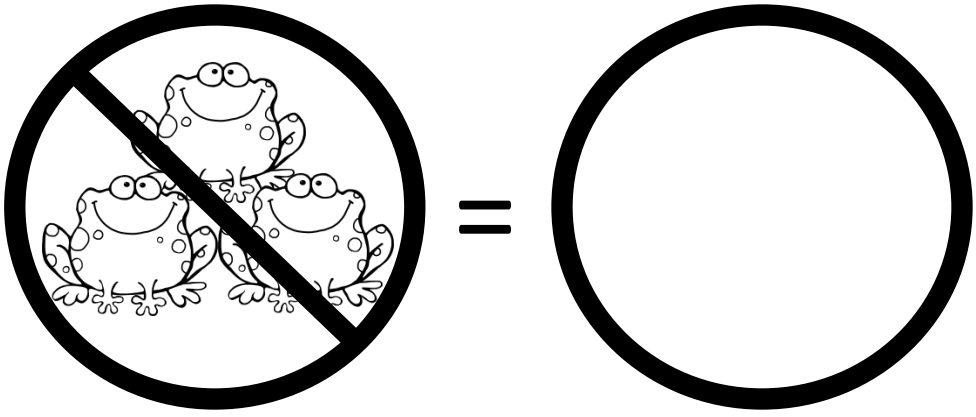
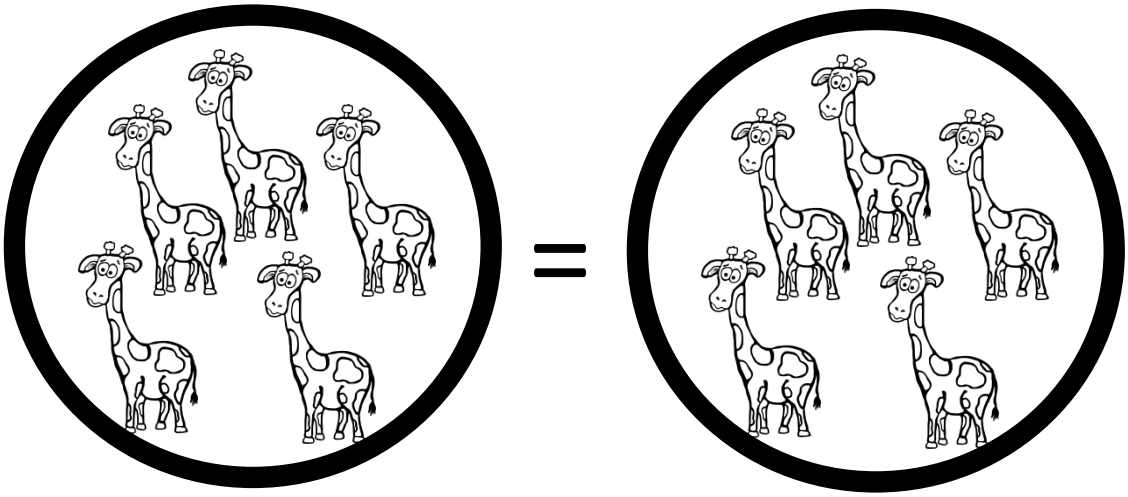


Date: _____

Today, I am learning about the IDENTITY PROPERTY OF MULTIPLICATION.

The **IDENTITY PROPERTY OF MULTIPLICATION** tells me that I can multiply ONE by any number, and that number keeps its identity!

1 x 5 = 5 If I have ONE group of 5 giraffes, I have 5 giraffes.



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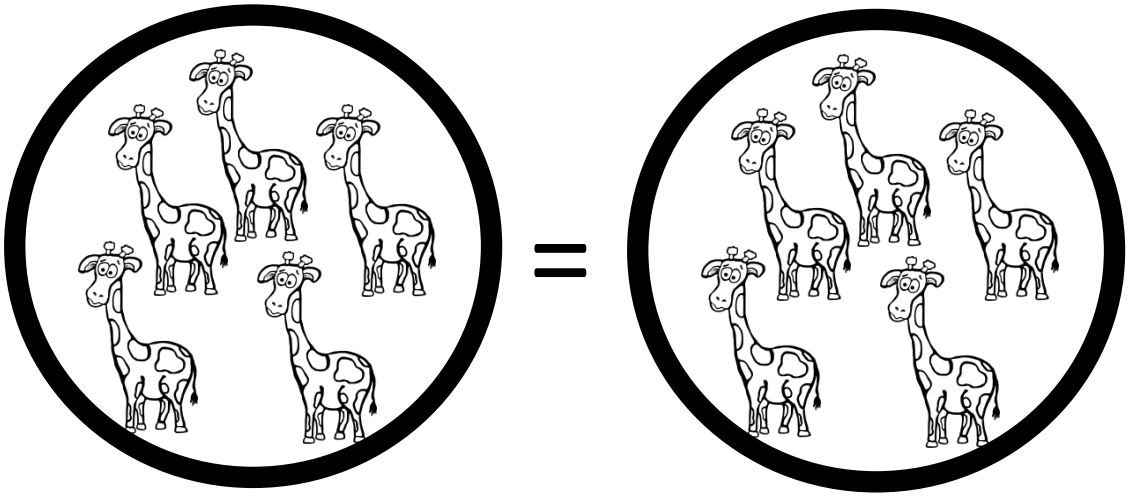

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The **COMMUTATIVE PROPERTY OF MULTIPLICATION** tells me that I can multiply my factors in any order and my products will stay the same.

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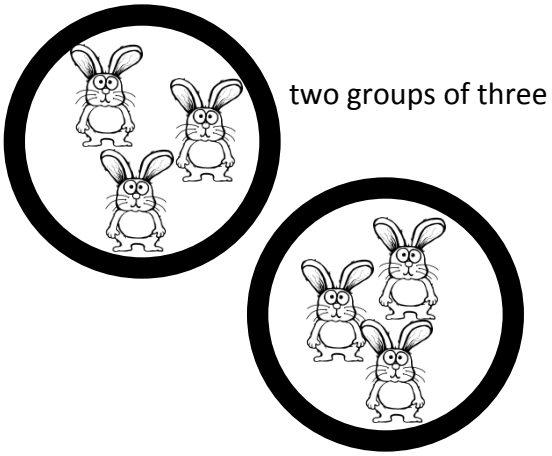

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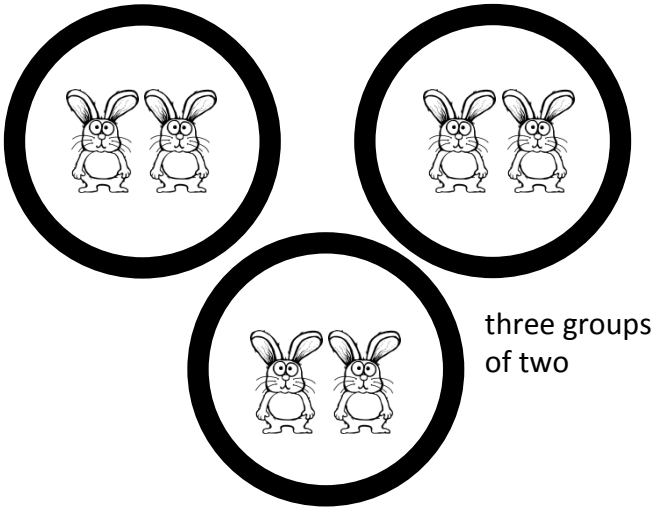

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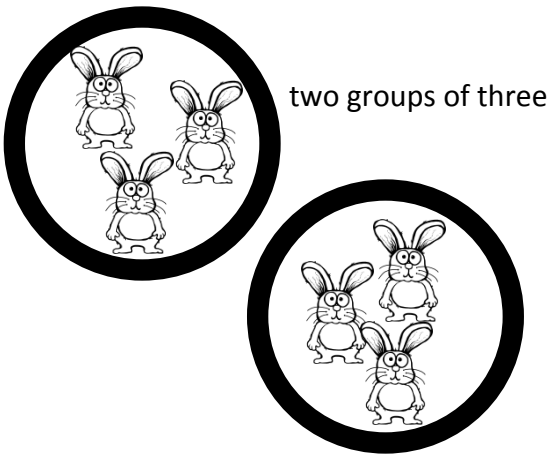

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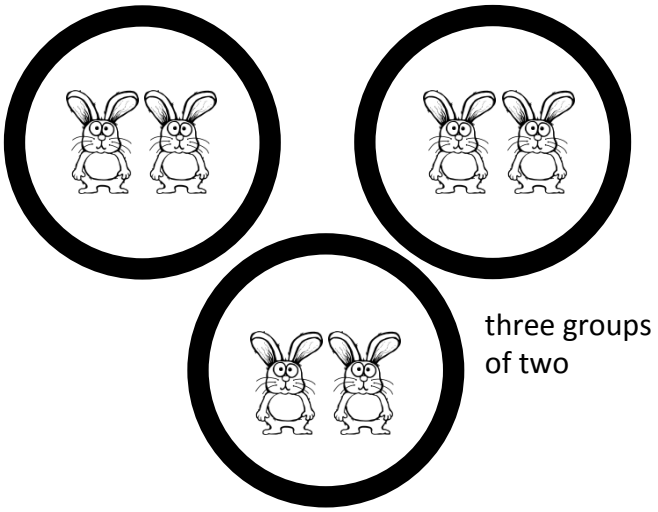

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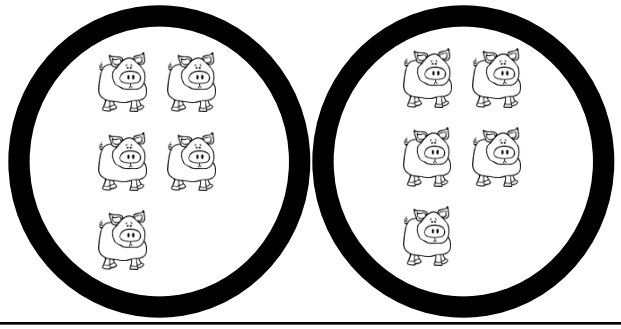
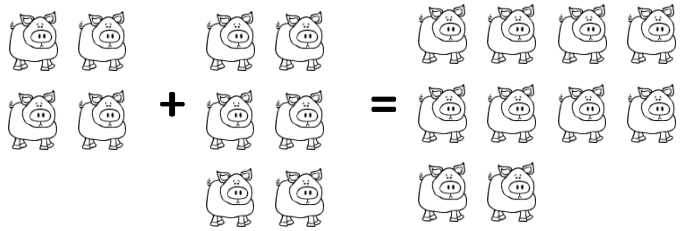
Today, I am learning about the DISTRIBUTIVE PROPERTY OF MULTIPLICATION.

The **DISTRIBUTIVE PROPERTY OF MULTIPLICATION** tells me that I can multiply the sum of 2 numbers OR I can multiply the factor by each addend to get the same product.

$2 \times (2 + 3) = 10$ $2 \times 5 = 10$ 	$(2 \times 2) + (2 \times 3) = 10$ $4 + 6 = 10$ 

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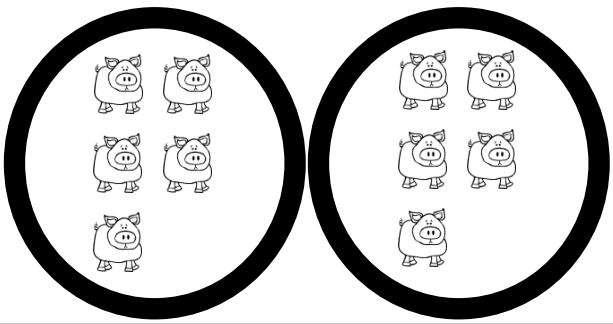
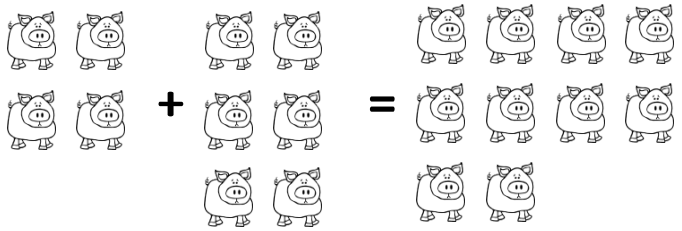
$2 \times (2 + 3) = 10$ $2 \times 5 = 10$ 	$(2 \times 2) + (2 \times 3) = 10$ $4 + 6 = 10$ 

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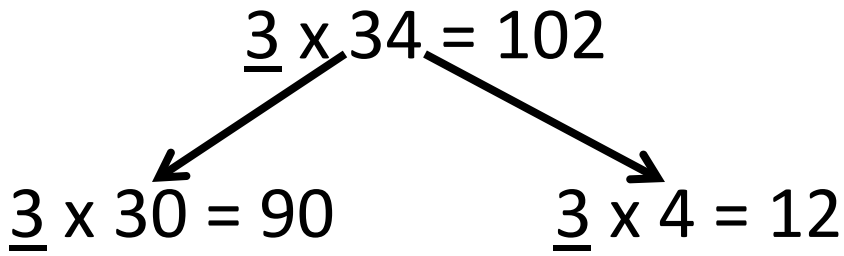
Today, I am learning about the DISTRIBUTIVE PROPERTY OF MULTIPLICATION.

The **DISTRIBUTIVE PROPERTY OF MULTIPLICATION** also tells me that I can multiply the 1-digit factor by the value in the tens and ones place, then add to solve.



Remember:
The VALUE of the digit 3 in the number 34 is 30.

90 + 12 = 102

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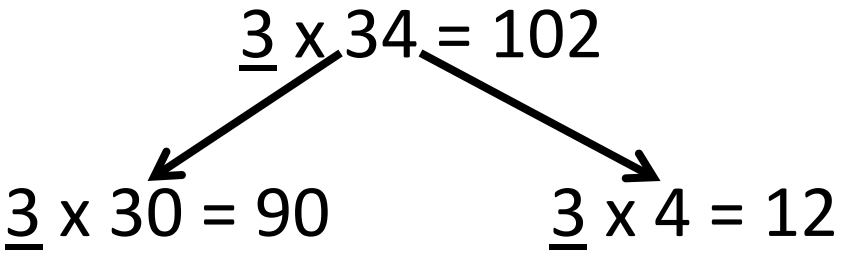

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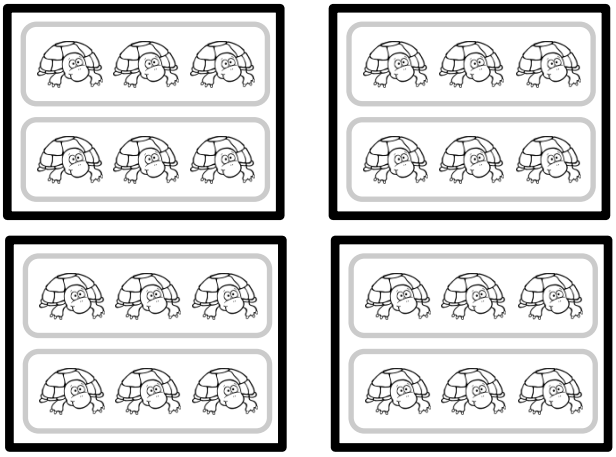
Today, I am learning about the ASSOCIATIVE PROPERTY OF MULTIPLICATION.

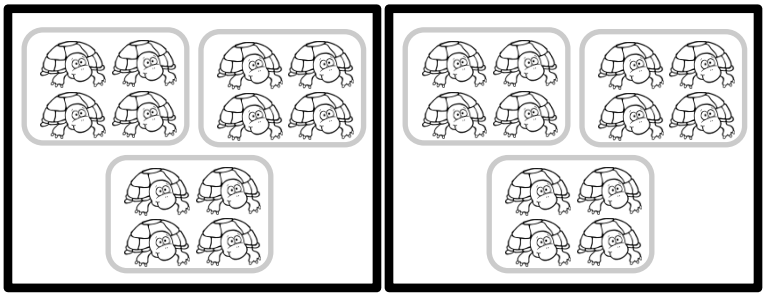
The **ASSOCIATIVE PROPERTY OF MULTIPLICATION** tells me that I can group my factors in different ways but my product will stay the same!

(2 x 3) x 4 = 24



2 groups of 3, 4 times = 24

2 x (3 x 4) = 24



3 groups of 4, 2 times = 24

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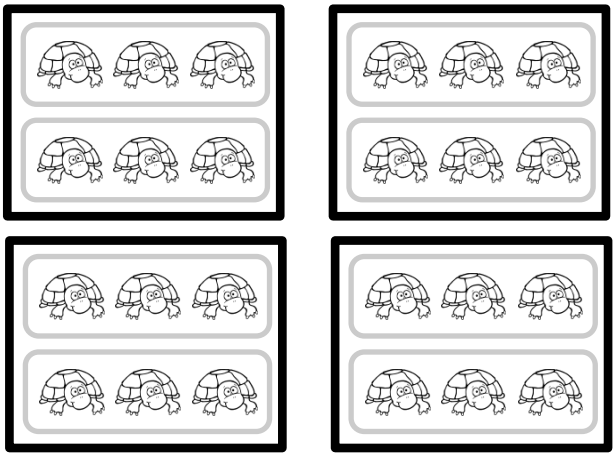

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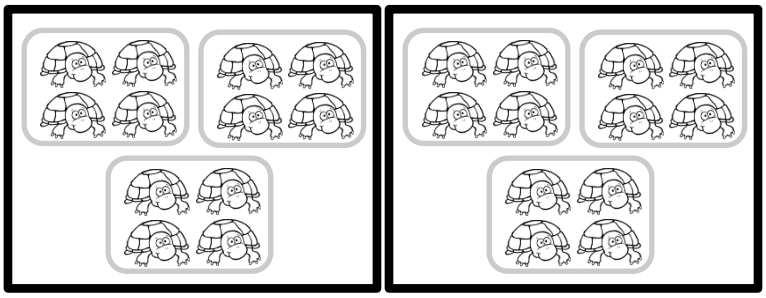

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