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The “U” in UMathX is ... “UNDERSTANDING”



RUDY NEUFELD - AUTHOR



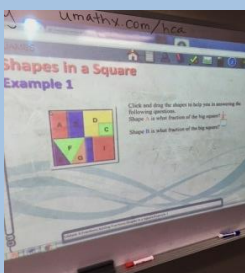
PERRI HUGGINS DIRECTOR



SAPHI – CLASS 4



DARREN PEI ADVISOR



HCA/James..Baton Rouge

TIMES: Thursday, May 24

- 7 am CDT – Baton Rouge / Houston / Chicago/ Alabama
- 8 am EDT – Dominican Republic / NY / Windsor
- 9 am Atlantic Time – Charlottetown
- 3 pm E Africa Time – Tanzania (did Tues, May 22)

REGISTERED ATTENDEES:

Obrien School, Kilimanjaro – Kari, Perri, Anna, Saphieli, Fadhili, Haji ... **May 22 EDT zone** – Windsor/Andrew; NY/Maria; Santo Domingo/Jose; NY/Eleanore
CDT zone – Baton Rouge/James, Mills; Houston/Abe/Lee; Chicago/Obrien; Smith
Atlantic zone – PEI/Darren

Instructions before the session

- *If you have not registered please email info@umathx.com 24 hours before session.
- *Registered attendees will be invited to the webinar by email at the begin time.
- *Please **copy pages 3 & 4** and record on paper as you work through pages 3 & 4.

Review the LEARNING ENVIRONMENT



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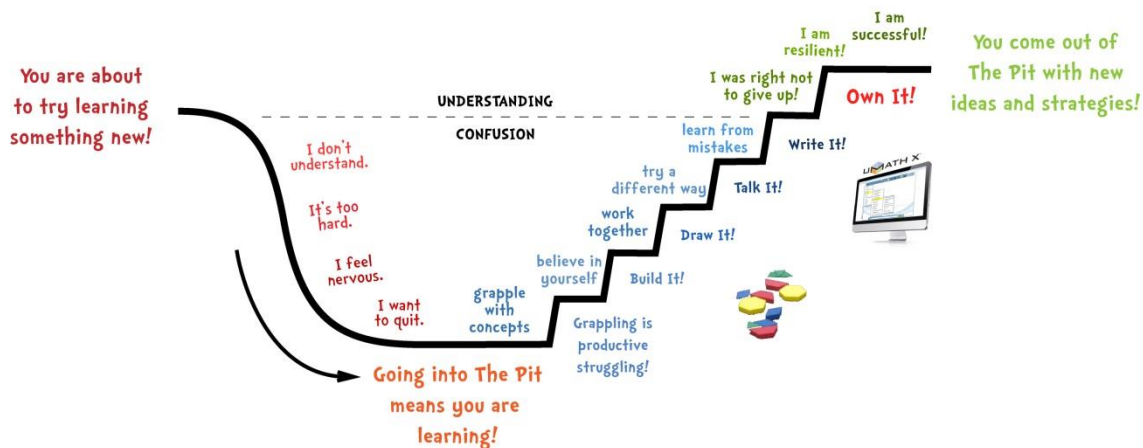
**Build it,
Draw it,
Talk it,
Write it
OWN IT!!**

- On your own time, play the video: *UMathX–What is it?* at www.umathx.com > Media > Videos
- UMathX transforms a “Valley of Despair” into productive struggling in a “learning pit”.



The Learning Pit

A Model for a Growth Mindset



- On your own time, play the video <http://www.jamesnottingham.co.uk/learning-pit> .

Webinar Attendees, if possible, photocopy pages 3 and 4.

Then work through and record on pages 3 and 4 before our webinar session.

BEGIN THE LESSON

For these lessons, you will need a computer with internet access as well as paper, pencil and appropriate manipulatives (algebra tiles)

UNTIL JUNE 15, 2018

On your computer ...

Enter the URL www.umathx.com/preview into the address box of any browser.

Enter the **Generic Username: count**

Enter the **Generic Password: umathx**

Concept 1: Algebraic Thinking – Concrete to Abstract

● STEP 1 ... GETTING STARTED

Login to www.umathx.com/preview or your own URL, your own login and password..OR
UNTIL JUNE 15, 2018.. Login is count

Password is umathx

On Computer, Login to **UMathX – Content Menu.**







Follow the path below:

Algebra > Algebraic Thinking > Pictures to Words Whole Numbers > Pictures to Words

Complete the chart below with pencil on paper as you work through the exercise in UMathX.

1. Learning takes place from **Concrete to Abstract**

2. The table is **KEY to UNDERSTANDING ... unknown is [redacted] .. X tile**





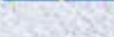

Picture	Command	Examples
	• Pick any number between 10 and 200.	<input type="text"/>
	• Add 6 to it.	<input type="text"/>
	• Multiply by 2.	<input type="text"/>
	• Subtract 8.	<input type="text"/>
	• Divide by 2.	<input type="text"/>
	• Subtract the number that you started with.	<input type="text"/>

On Computer, Login to **UMathX – Content Menu.**

Follow the path below:

Algebra > Algebraic Thinking > Pictures to Words Whole Numbers > MORE Pictures to Words

Complete the chart below with pencil on paper as you work through the exercise in UMathX.

Picture	Command	Examples
	• Pick any number between 10 and 100.	<input type="text"/>
	• Multiply by 2.	<input type="text"/>
	• Add 6.	<input type="text"/>
	• Add the number that you started with.	<input type="text"/>
	• Divide by 3.	<input type="text"/>
	• Subtract 2.	<input type="text"/>

TALK ABOUT IT!! ... Construct Your Understanding ... WRITE ABOUT IT

● STEP 2a .. WORKING AT IT – Introduce Tiles

On Computer, Login to [UMathX – Content Menu](#).

Follow the path below:

[Algebra > Tiles and Algebra > Area](#)

Work through:

Area ... The Concept, Example 1, Example 2, Example 3

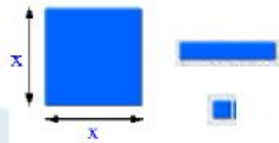
On Computer, Login to [UMathX – Content Menu](#).

Follow the path below:

[Algebra > Tiles and Algebra > Introduction to Tiles](#)

Work through:

Tile Representation, Like Terms, Combinations, Squared Terms



CONSTRUCT UNDERSTANDING

Use Real ALGEBRA TILES .. Draw them on PAPER .. Represent on COMPUTER.

● STEP 2b .. WORKING AT IT -- Tiles to Help in Algebra

On Computer, Login to [UMathX – Content Menu](#).

Follow the path below:

[Algebra > Tiles and Algebra > PICTURES to WORDS to ALGEBRAIC EXPRESSIONS > Ex 1](#)

Complete the chart below, pencil on paper as you work through Exercise 1 in UMathX

<u>Picture</u>	<u>Words</u>	<u>Algebraic Expression</u>
	• Pick any number	
	• Add 6 to it.	
	• Double the answer.	
	• Subtract 8.	
	• Divide by 2.	
	• Subtract the original number.	

This answer will always be

● STEP 3 .. REFLECT & CONECT

Go to www.UMathX.com and select “**supportsheets**” under “**Resources**”

Under “**Algebra**” select the Support Sheet, “**Algebra Section 2**” – Tiles and Algebra

In your notebook with pencil and paper, complete pages 1,2,3,4

Concept 2: Place Value – Concrete to Abstract

Login to www.umathx.com/preview or your own URL, your own login and password..OR
 Until June 15 .. login is count
 Password is umathx

Select the framework below ... select "View a Framework"

Framework for Learning:

Leader's Name:

Place Value - Ones & Groups of Tens

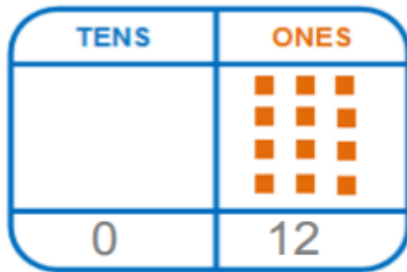
Co-Leader's Name:

Instructor's Initials:

Getting Started:

In **UMATH X** follow the path:

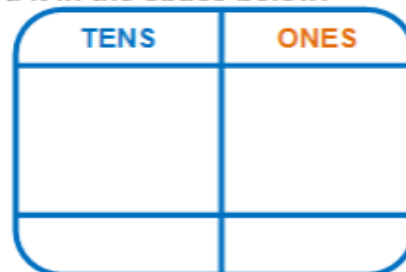
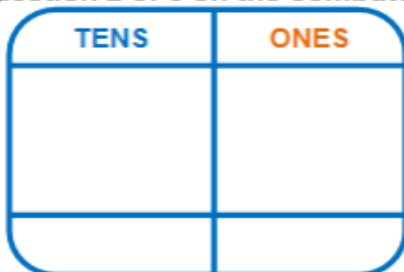
Place Value > 2. Model Numbers Grouped in Packages > C > 1.) Ones and Groups of Ten
 Complete question 1 of 6 on the computer and record it in the space below.



We began with _____ ONES.

Now there is _____ TEN and _____ ONES.

Complete question 2 of 6 on the computer and record it in the space below.



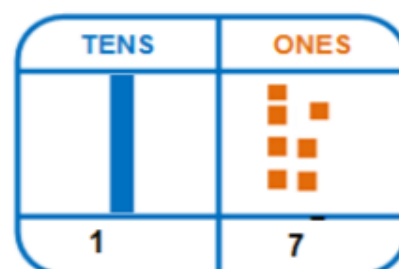
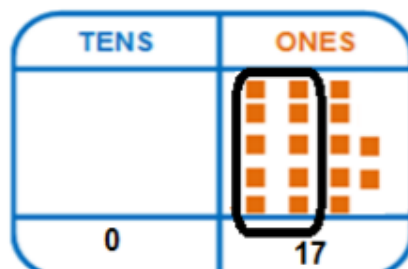
We began with _____ ONES.

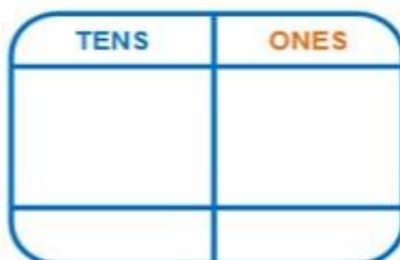
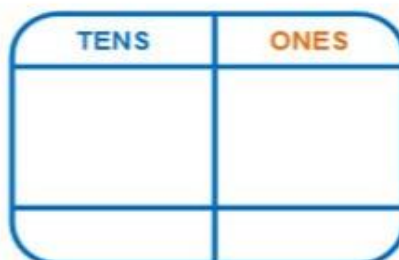
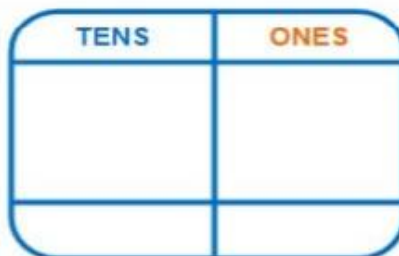
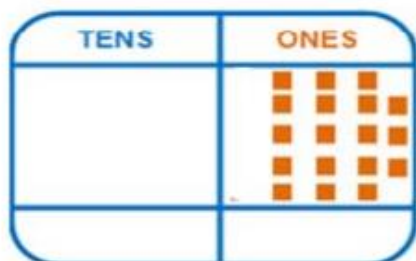
Now there is _____ TEN and _____ ONES.

Complete questions 3 to 6 of 6 on the computer.

Working In It: In examples below, circle groups often. Draw the regrouped number to the right.

This first one has been done for you.





Reflect & Connect:

Compare your answers in *Getting Started* and *Working In It*.

Talk with a partner about any patterns you see.

Discuss the advantages of using groups of tens and ones when writing the number.

If one selects as many groups of **TEN** as possible from any number of blocks above, then in a 2 digit number, the number of groups of **TENS** is always _____. The number of **ONES** is always _____. Explain your reasoning below.

Build It. Draw It. Talk It. Write It. Now you OWN It!



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