

Framework for Learning:

Multiply Two 2-digit Numbers by Partial Products

Leader's Name:	
Co-Leader's Name:	Instructor's Initials:
Build the rectangle on your desk using base	ares fill up a large rectangle of the rectangle with dimensions by e ten blocks. First use as many hundreds blocks as possible ase ten blocks. Use as many hundreds blocks as possible.
	Continue to build the rectangle on your deskAdd as many tens blocks as possibleThen add as many ones blocks as possible. Continue to draw the rectangle on this gridColor in as many tens blocks as possibleThen complete the rectangle with ones blocks. On the rectangle on your desk:draw 2 imaginary lines to divide the rectangle into 4 parts. On the rectangle on the grid:draw 2 lines to divide the rectangle into 4 parts.

Working In It:

Log into UMath X

From the menu on the left:

Hover over the Strand: Whole Numbers and Integers

Hover over Section 3: Multiplication and Division of Whole Numbers

Hover over the Lesson: Multiply by a Two Digit Multiplier

Hover over the Sub Lesson: Partial Products - Area

Select and work through the Sub Sub Lesson: **Example 1 – With Blocks**

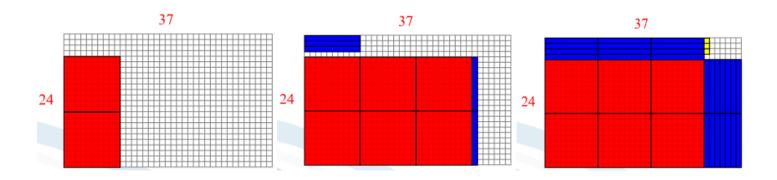
First, on the computer, drag as many **Hundreds blocks** as possible onto the rectangle.

Now, on the computer, drag as many **Tens blocks** as possible onto the rectangle.

Now, on the computer, drag as many **Ones blocks** as possible onto the rectangle.

On the computer screen the area of the rectangle is cut into _____ parts.

On both the rectangle of blocks on your desk and on the rectangle on the grid, check that progression of steps match the steps on the computer shown below.



Then 24 X 37 = sum of all 4 areas = ___ + ___ + ___ + ___ = ___

Reflect And Connect:

Hover over the Strand: Whole Numbers and Integers

Hover over Section 3: Multiplication and Division of Whole Numbers

Hover over the Lesson: Multiply by a Two Digit Multiplier

Select and work through the Sub Lesson: The Distributive Method: Example 1

Talk to your partner to clearly explain and show the graphics which lead to your understanding when multiplying 2 digit by 2 digit numbers.

Is there something that you would change to help one to understand the concept better?

Write a short sentence below about what you feel is the main idea in the work that you have done.

In your notebook, multiply 35 x 27 using the Partial Products Method and the Distributive Method.

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



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