

RESOURCE #3 .. TEACH don't TELL

STEPS IN .. MULTIPLICATION OF 2 DIGIT BY 2 DIGIT

... begin with RESOURCE #1 and RESOURCE #2

,,, then on computer with UMathX or UMathXI (or 2008 below)

TALK ABOUT IT!!

File Jump To... Multiply by a Two Digit Multiplier Partial Products (Area)

Partial Products - Ex. 1 - With Blocks

We want to multiply 24×37 .
We want to find the **AREA** of the rectangle.

Part 2 ← 30 → Part 1 ← 7 → Part 3

4 ↑ = Ones by ___ Tens

20 ↓

Part 3

Part 1 = 28 Ones Part 2 = 120 Ones

Multiplication and Division of Whole Numbers

Complete part 3 and 4 on above graphic ..

Complete the graphic below then check on computer

Partial Products – Example 1 – With Blocks

Part 1: ___ Ones by ___ Ones =

Part 2: ___ Ones by ___ Tens = ___ Tens =

Part 3: ___ Ones by ___ Tens = ___ Tens =

Part 4: ___ Tens by ___ Tens = ___ Hundreds =

+

Summary: $24 \times 37 =$ Sum of 4 _____
 = _____ of Part 1 + _____ of Part 2 + _____ of Part 3 + _____ of Part 4

Partial Products - Ex. 4 - Without Blocks

We want to multiply 24×37 .

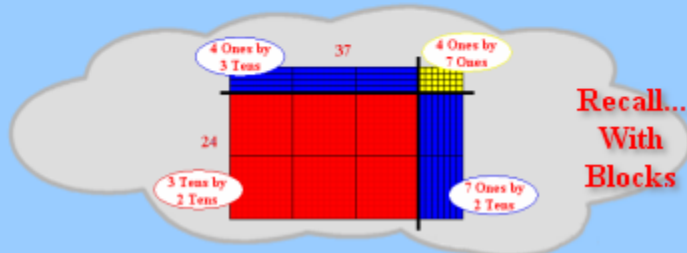
Partial Product 1

- = 4 Ones by 7 Ones
- = 4×7 Ones
- = 28 Ones

Partial Product 2

- = 4 Ones by 3 Tens
- = 4×3 Tens
- = 12 Tens
- = 120 Ones

	H	T	O
	3	7	
x	2	4	
	2	8	
	1	2	0



Recall...
With
Blocks

Etcetc .. to Product 3 and Product 4 .. and then to DISTRIBUTIVE PROPERTY.

COMPLETE THE STEP ABOVE. .. THEN CHECK WITH UMATHX