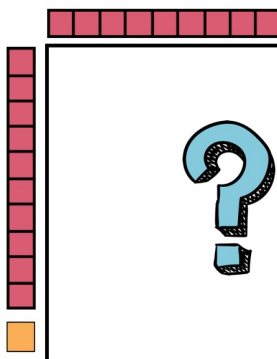


MULTI-DIGIT MULTIPLICATION USING THE AREA MODEL

ACTIVITIES TO FACILITATE A **CONCEPTUAL**
UNDERSTANDING OF MULTIPLICATION USING
BASE TEN BLOCKS

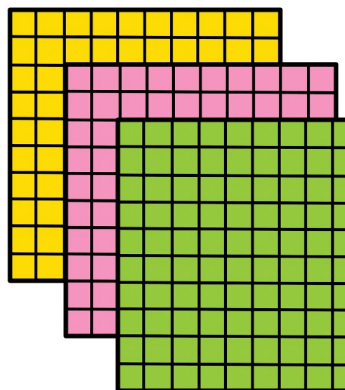
**TASK
#1**

Use base ten blocks to solve 11×13 .



**TASK
#11**

The product is 396. What could the factors be? Create an area model and write the equation.

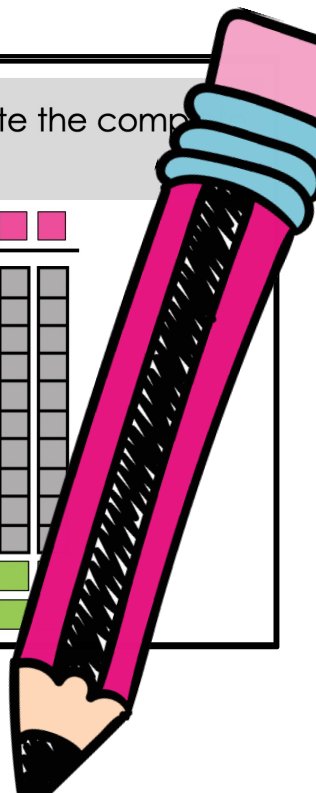


**TASK
#22**

What is the missing factor? Write the complete equation.



SHELLEY GRAY



about this resource

This resource includes 24 half-page task cards to practice the area model using base ten blocks. They focus on a conceptual understanding of multiplication and give students the opportunity to incorporate concrete understanding.

Provide base ten blocks so students can work in a hands-on way as they complete the task for each task card.

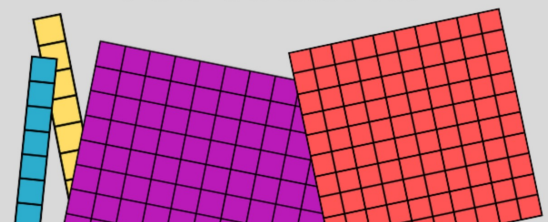
Some ideas for use include:

- Use as an independent center activity.*
- Use for assessment in a one-on-one setting.*
- Use in Guided Math groups and discuss the answers as a group.*

To find out more about the area model, and how to extend it past the use of base ten blocks, please see this post on my website:

<https://shelleygrayteaching.com/multiplication-area-model/>

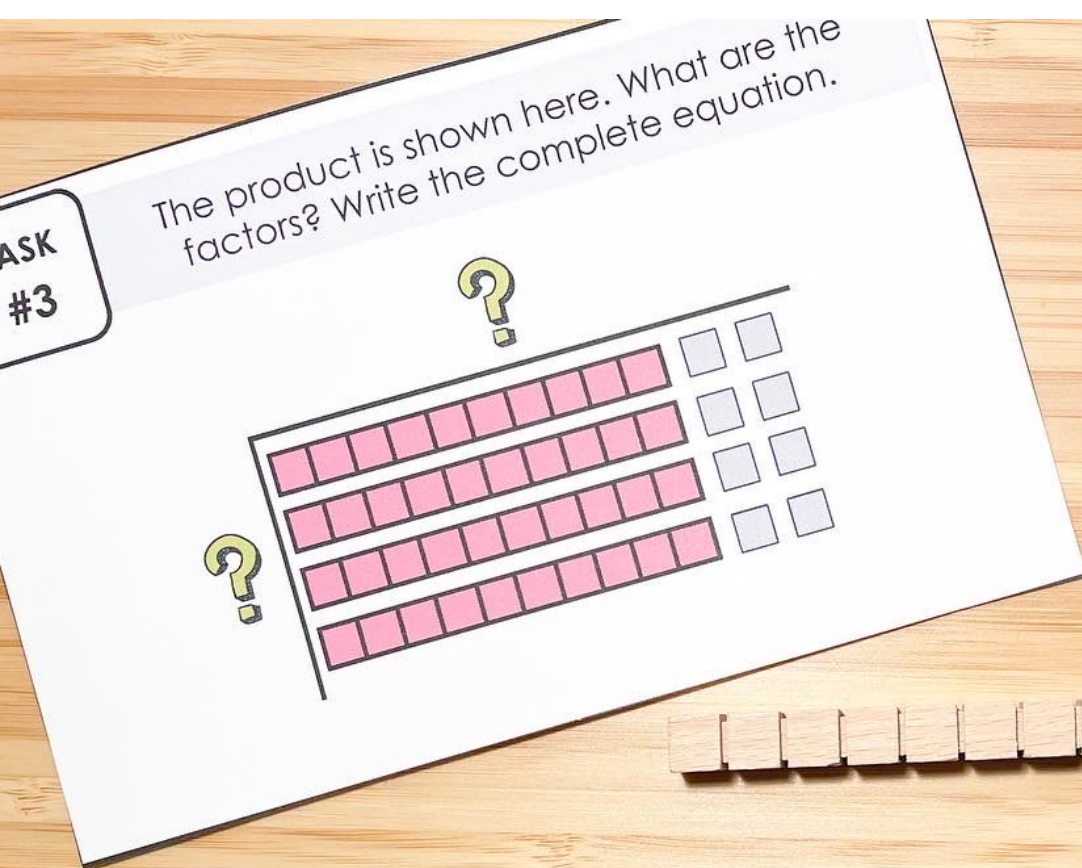
**What is the Multiplication
Area Model and How Do
You Teach It?**



sample activities

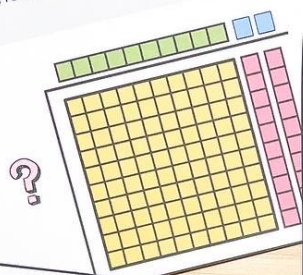
These task cards are designed to have students work with the area model in different ways. They will work with base ten blocks to:

- find products
- find missing factors
- consider different possibilities for factors



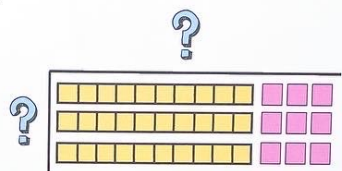
TASK
#10

What is the missing factor? Write the complete equation.



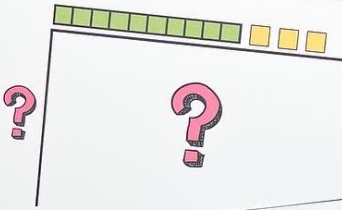
TASK
#9

The product is shown here. What are the factors? Write the complete equation.



TASK
#6

One of the factors is 13. The product is greater than 150. What could the other factor be? Create an area model and write the equation.



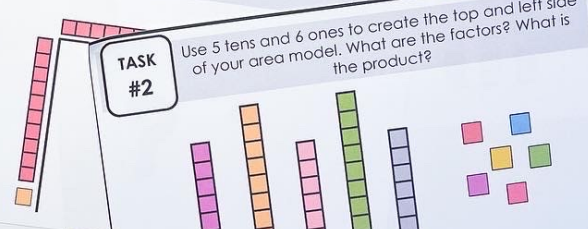
TASK
#5

The product is 231. What could the factors be? Create an area model and write the equation.



TASK
#1

Use base ten blocks to solve 11×13 .



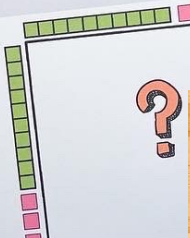
TASK
#2

Use 5 tens and 6 ones to create the top and left side of your area model. What are the factors? What is the product?



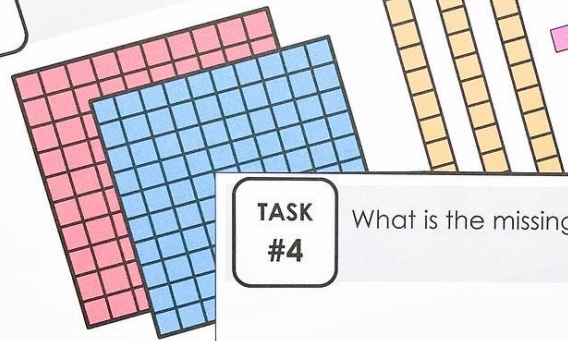
TASK
#7

Use base ten blocks to solve



TASK
#5

The product is 231. What could the factors be? Create an area model and write the equation.



TASK
#4

What is the missing factor? Write the complete equation.

