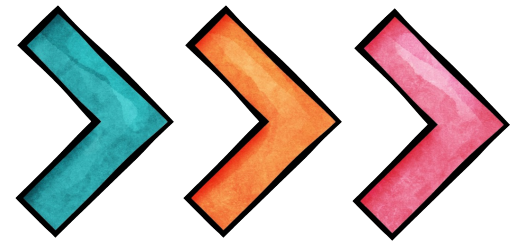


2-DIGIT BY 2-DIGIT MULTIPLICATION

THE AREA



MODEL

digital

Multiply Using the Area Model

50 + 2

30		
+ 9		

Drag the numbers.

1,500	450
60	15
18	50

39 x 52 =

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ABOUT THIS RESOURCE

This resource will help your students practice multi-digit multiplication using the area model. In this particular resource, all problems include 2-digit by 2-digit multiplication.

There are three sections included, each one with fifteen practice slides for a **total of forty-five practice slides**. Assign a few at a time or use one per day as a math warm-up!

Section One: Drag the Numbers

In the first section, students will drag the number tiles to solve the problem. There are fifteen slides included.

The image displays four sample slides from the resource, each featuring a multiplication problem to be solved using an area model and a set of number tiles. Each slide has a title 'Multiply Using the Area Model' and a set of colored arrows pointing right. The slides are:

- Slide 1 (Pink):** Problem: $31 \times 26 =$. The area model has a top row labeled '20 + 6' and a left column labeled '30 + 1'. The problem is $31 \times 26 =$.
- Slide 2 (Teal):** Problem: $40 \times 68 =$. The area model has a top row labeled '60 + 8' and a left column labeled '40 + 1'. The problem is $40 \times 68 =$.
- Slide 3 (Red):** Problem: $70 \times 25 =$. The area model has a top row labeled '20 + 5' and a left column labeled '70 + 2'. The problem is $70 \times 25 =$. Number tiles: 1,400, 40, 1,200, 2,400, 10, 350.
- Slide 4 (Yellow):** Problem: $11 \times 19 =$. The area model has a top row labeled '10 + 9' and a left column labeled '10 + 1'. The problem is $11 \times 19 =$. Number tiles: 50, 9, 90, 20, 100, 10.
- Slide 5 (Orange):** Problem: $11 \times 41 =$. The area model has a top row labeled '40 + 1' and a left column labeled '10 + 1'. The problem is $11 \times 41 =$. Number tiles: 20, 10, 400, 1, 350. A hand is shown pointing to the '1' tile.

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Section Two: Type the Numbers

In the second section, students will type directly into the area model to solve the problem. There are fifteen slides included.

Multiply Using the Area Model >>>>>

	10	+	6	
50				
+				
1				
51 x 16				

Multiply Using the Area Model >>>>>

	30	+	5	
10				
+				
2				
12 x 35 =				

Multiply Using the Area Model >>>>>

	40	+	5	
30				
+				
4				
34 x 45 =				

Section Three: Fill in the Missing Factors

In the final section, students will think strategically to fill in the missing factors. There are fifteen slides included.

Multiply Using the Area Model >>>>>

		+		
20	600		140	
+				

Multiply Using the Area Model >>>>>

		+	5	
	1,600		200	
+				
	200		25	
x =				

Multiply Using the Area Model >>>>>

		+		
	4,200		60	
+				

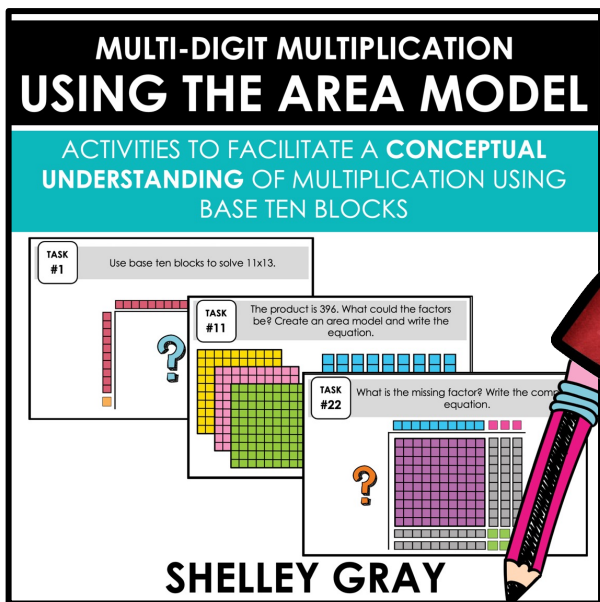
Multiply Using the Area Model >>>>>

		+		
	2,000		160	
+				
5	250		20	
x =				

REMEMBER!

This resource is intended as practice and reinforcement for **after** students have already learned the area model.

If you are in the **beginning stages** of teaching the area model, I recommend beginning with concrete materials that students can manipulate as they **build their understanding**. I designed the task cards below to help you do just that.



Click here to take a closer look.



Or, if you're looking for this resource in a **1-digit by 2-digit version**, you'll find that here.

Want to learn more about the area model? Here's a post on my website that will help.

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

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

