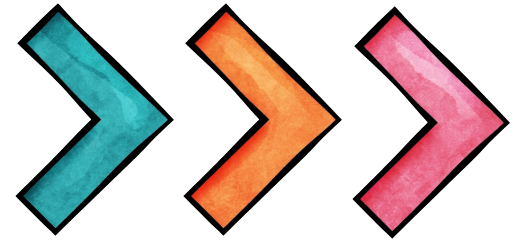


1-DIGIT BY 2-DIGIT MULTIPLICATION

**THE AREA**



**MODEL**

*digital*

**Multiply Using the Area Model**

20 + 5

6

Drag the numbers.

30

180

120

**6 x 25 =**

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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, the multiplication is limited to one-digit by two-digits.

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 five overlapping practice slides for multiplication using the area model. Each slide features a title, a multiplication problem, a partial area model, and a list of numbers to be dragged.

- Slide 1 (Pink):** Title: "Multiply Using the Area Model". Problem:  $5 \times 14 =$ . Area model:  $10 + 4$  above a grid with a vertical line, and  $5$  to the left. Numbers to drag:  $20$ .
- Slide 2 (Yellow):** Title: "Multiply Using the Area Model". Problem:  $56 \times 3 =$ . Area model:  $50 + 6$  above a grid with a vertical line, and  $3$  to the left. Numbers to drag:  $160$ ,  $24$ .
- Slide 3 (Teal):** Title: "Multiply Using the Area Model". Problem:  $8 \times 20 =$ . Area model:  $20 + 3$  above a grid with a vertical line, and  $8$  to the left. Numbers to drag:  $160$ ,  $24$ .
- Slide 4 (Red):** Title: "Multiply Using the Area Model". Problem:  $3 \times 80 =$ . Area model:  $80 + 1$  above a grid with a vertical line, and  $3$  to the left. Numbers to drag:  $160$ ,  $3$ ,  $240$ .
- Slide 5 (Purple):** Title: "Multiply Using the Area Model". Problem:  $4 \times 77 =$ . Area model:  $70 + 7$  above a grid with a vertical line, and  $4$  to the left. Numbers to drag:  $28$ ,  $21$ ,  $280$ .
- Slide 6 (Orange):** Title: "Multiply Using the Area Model". Problem:  $2 \times 43 =$ . Area model:  $40 + 3$  above a grid with a vertical line, and  $2$  to the left. Numbers to drag:  $60$ ,  $6$ ,  $80$ . A hand is shown pointing to the number  $6$ .

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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** >>>>>

90 + 1

2

$2 \times 90 =$

**Multiply Using the Area Model** >>>>>

10 + 5

8

$8 \times 10 =$

**Multiply Using the Area Model** >>>>>

30 + 4

9

$9 \times 34 =$

$5 \times 43 =$

$2 \times 90 =$

$8 \times 10 =$

$9 \times 34 =$

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# 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** >>>>>

+

2

80 14

$2 \times =$

**Multiply Using the Area Model** >>>>>

+

250 25

$7 \times =$

**Multiply Using the Area Model** >>>>>

+ 5

240 40

$x =$

$7 \times =$

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# 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.

## 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  $11 \times 13$ .

**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.

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Click here to take a closer look.

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?**

