

Name: _____

Date: _____

Area Model Multiplication with Diagrams

Multiply using area models. Show your work by filling in the partial products.

Grade 6

Part 1: Two-Digit by Two-Digit

Use the area model to multiply. Fill in the partial products in each box and write the total product.

1. 24×37

	20	4	
30			→ _____
7			→ _____
			Total Product: _____

3. 73×26

	70	3	
20			→ _____
6			→ _____
			Total Product: _____

2. 56×48

	50	6	
40			→ _____
8			→ _____
			Total Product: _____

4. 81×39

	80	1	
30			→ _____
9			→ _____
			Total Product: _____

Part 2: Three-Digit by Two-Digit

Use the area model to multiply. Fill in the partial products in each box and write the total product.

5. 342×17

	300	40	2	
10				→ _____
7				→ _____
				↓ ↓ ↓

				Total Product: _____

6. 215×23

	200	10	5	
20				→ _____
3				→ _____
				↓ ↓ ↓

				Total Product: _____

★ Challenge: Think Deeper!

Use the area model to multiply.

7. 156×34

	100	50	6	
30				→ _____
4				→ _____
				↓ ↓ ↓

				Total Product: _____

8. 326×18

	300	20	6	
10				→ _____
8				→ _____
				↓ ↓ ↓

				Total Product: _____