



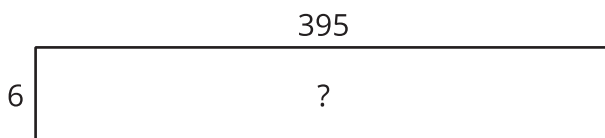
Multiply Three- and Four-Digit Numbers by One-Digit Numbers

Let's multiply three- and four-digit numbers by one-digit numbers.

Warm-up

Estimation Exploration: Mysterious Area

What is the area of the rectangle represented by the diagram?



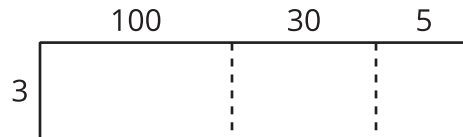
Record an estimate that is:

too low	about right	too high

Activity 1

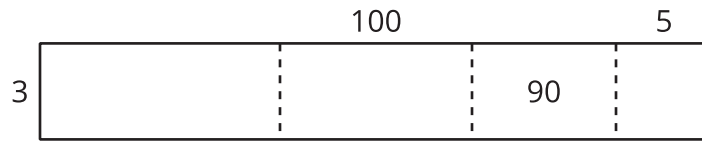
Larger Numbers to Multiply

1. Clare draws this diagram.



- a. What multiplication expression can be represented by the diagram?
- b. Find the value of the expression. Show your thinking using diagrams, symbols, or other representations.
2. Consider the expression 6×252 .
- a. Draw a diagram to represent the expression.
- b. Find the value of the expression. Show your thinking using diagrams, symbols, or other representations.

3. Lin draws a diagram to represent $3 \times 2,135$.



- Complete Lin's diagram.
 - Write an expression to represent the value of each part of the diagram.
- c. Find the value of $3 \times 2,135$. Show your thinking using diagrams, symbols, or other representations.

Activity 2

Jada's Errors

1. Jada uses this diagram to multiply $3 \times 6,489$. She makes a few errors in the diagram.

	6,000	400	80	9
3	18	12	24	27

- a. Explain the errors Jada made.

- b. Find the value of $3 \times 6,489$. Show your thinking using diagrams, symbols, or other representations.



2. Find the value of 5×699 . Show your thinking using diagrams, symbols, or other representations.

3. Find the value of $8 \times 4,973$. Show your thinking using diagrams, symbols, or other representations.

