

Two-Digit Multiplication— Using an Array Model

Name: _____

You will develop strategies for multiplying two-digit numbers.

EXPLORE

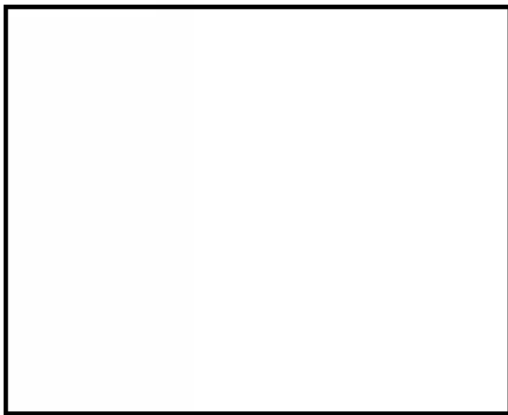
1. Open **Two-Digit Multiplication--Using an Array Model.gsp**.

Go to page “Array One.”

Follow these steps:

- Drag the red point in the top-right corner of the array to make a multiplication problem.
- Drag the red point inside the array to split it into smaller arrays.
- Use the array model to solve the multiplication problems that follow. Sketch your solutions in the rectangles shown.

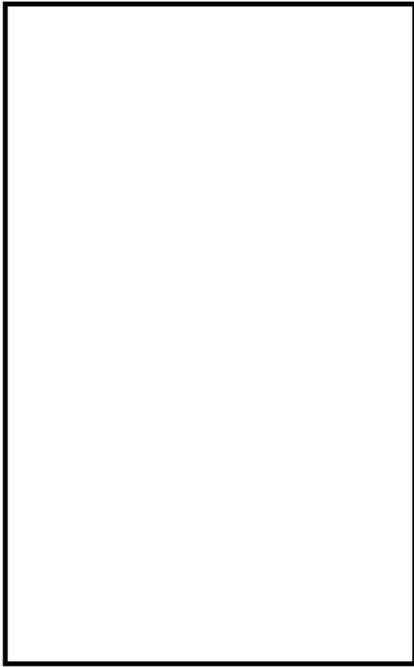
2. $12 \times 15 = \underline{\hspace{2cm}}$



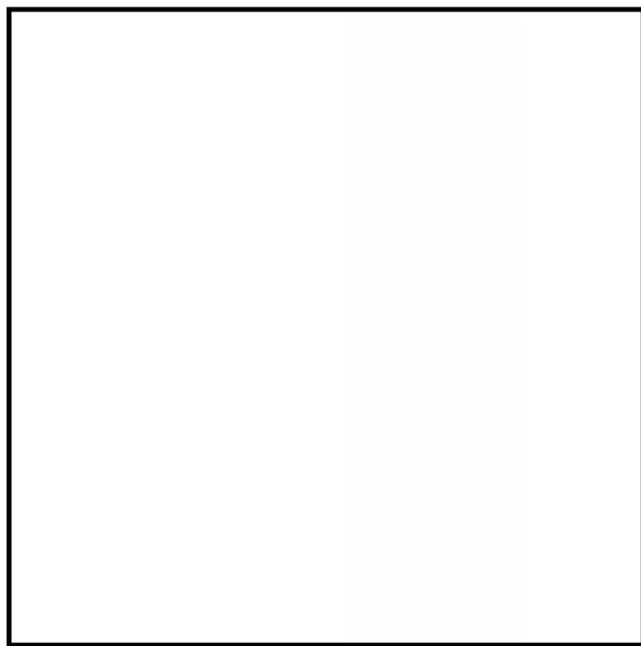
3. $13 \times 16 = \underline{\hspace{2cm}}$



4. $18 \times 11 = \underline{\hspace{2cm}}$



5. $17 \times 17 = \underline{\hspace{2cm}}$



6. $12 \times 19 =$ _____



7. Solve a two-digit multiplication problem of your choice. Pick numbers that are greater than 10 but less than or equal to 20. Sketch a rectangle to show your strategy in the space below.

_____ \times _____ = _____