

Two-Digit Multiplication, Part One— Using Base Ten Blocks

Name: _____

You will multiply two-digit numbers using a rectangular array model.

EXPLORE

1. Open <http://sineofthetimes.org/2018/basetenblocks2/>

Follow these steps:

- Drag the orange points to represent a multiplication problem.
- Use the model to solve the multiplication problems that follow. Next to each problem below, draw a picture of your arrays, write the partial products, and find their sum.

2. $33 \times 26 = \underline{\hspace{2cm}}$

3. $28 \times 52 = \underline{\hspace{2cm}}$

4. $43 \times 20 =$ _____

5. $45 \times 45 =$ _____

6. Press the Show Units button, the Hide Block Edges button, and the Show Partial Products button. Describe how these buttons can help you understand the array.

7. $62 \times 79 = \underline{\hspace{2cm}}$

8. Solve a two-digit multiplication problem of your choice. Sketch your problem below, and find the solution.

$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

9. Explain a strategy for solving any two-digit multiplication problem.
