

Multiplication

Solve 43×25

Draw your array and split your factors into tens and ones.

2 x 2 digit Multiplication Using Area Models

2 Multiply the new factors and write the product in the correct box.

3 Add up the four partial products.

$$\begin{array}{r} 800 \\ 200 \\ 60 \\ + 15 \\ \hline 1,075 \end{array}$$

The sum of the partial products is your answer.
So, $43 \times 25 = 1,075$

Multiplication Strategies

Partial Products

453	
$\times 48$	
$\hline 24$	8×3
400	8×50
$3,200$	8×400
120	40×3
$2,000$	40×50
$\hline 16,000$	40×400
$21,744$	

Steps to Use the Standard Algorithm for Multiplication

- 1.) Multiply the ones in the bottom number times the ones in the top number. Regroup to the tens if needed.
- 2.) Multiply the bottom ones times the top tens. Add in any carries.
- 3.) Start a new answer line with a zero in the ones because you will be using the tens place.
- 4.) Multiply the tens in the bottom number times the ones in the top. Regroup if needed.
- 5.) Multiply the bottom tens times the top tens. Add in any carries.
- 6.) Add together your answer lines.

