

# Grid Method → Multiplying 2 two-digit numbers

MCC4.NBT.5

$$\begin{array}{r} 49 \\ \times 7 \\ \hline \end{array}$$

Step 1: Pretend your tens place number is dead.

$$\begin{array}{r} 49 \\ \times 7 \\ \hline 343 \end{array}$$

Step 2: Multiply your ones by the top number

Step 3: Bury your number in the ones place!

$$\begin{array}{r} 49 \\ \times 7 \\ \hline 343 \\ \text{☹} \end{array}$$

Step 4: Bring your tens place number back to life!

Step 5: Multiply your tens by the top number.

Step 6: Add!

$$\begin{array}{r} 49 \\ \times 7 \\ \hline 343 \\ + 490 \\ \hline 833 \end{array}$$

$$\begin{array}{r} 84 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ \times 59 \\ \hline \end{array}$$

# Distributive → Multiplying 2 two-digit numbers Method Distributive Steps!

MCC4.NBT.5

① Figure out the value of each number.

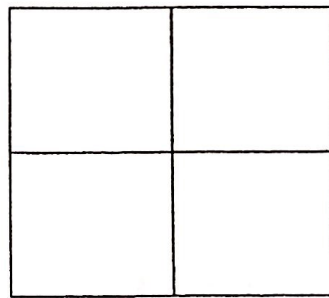
$$\begin{array}{r} \leftarrow 50 \\ 56 \leftarrow 6 \\ \times 29 \leftarrow 9 \\ \hline \phantom{0} 20 \end{array}$$

$50 + 6$		
$(50 \times 20)$ 1000	$(6 \times 20)$ 120	$20$ + $9$
$(50 \times 9)$ 450	$(6 \times 9)$ 54	

Step 4:

$$\begin{array}{r} 1000 \\ 120 \\ + 450 \\ 54 \\ \hline 1,624 \end{array}$$

② Place the values around the edges of your cube.



③ Multiply each number on top of the cube by the numbers on the side of the cube.

④ Add together the numbers in the boxes! That's your product!!

Try these!

$$\begin{array}{r} 84 \times 35 \\ 16 \times 93 \end{array}$$

$$74 \times 82$$

## Partial Products Method

It's a LOT like Distributive...  
just in a list format!

Separate the numbers  
into tens and ones

Multiply each part -  
DOWN, DOWN,  
CRISSCROSS!

Add the results!

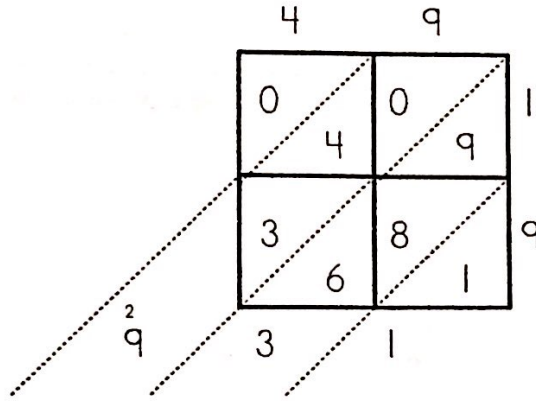
$$\begin{array}{r} 19 \\ \times 25 \\ \hline \phantom{00} \\ \phantom{00} \\ \phantom{00} \\ \phantom{00} \\ \hline + \end{array}$$

# Lattice Method → Multiplying 2 two-digit Numbers

MCC4.NBT.5

## Lattice Multiplication

Solve:  $49 \times 19$



Answer:  $49 \times 19 = 931$

Step 1: Write the numbers you're multiplying along the top and side of the grid.

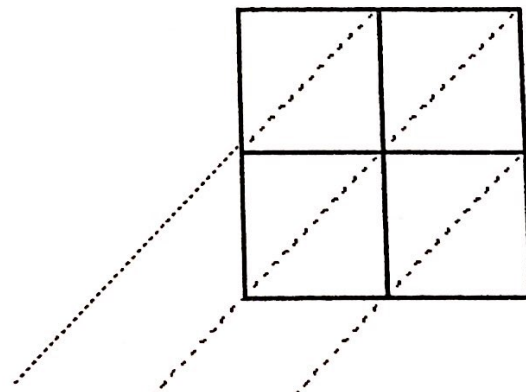
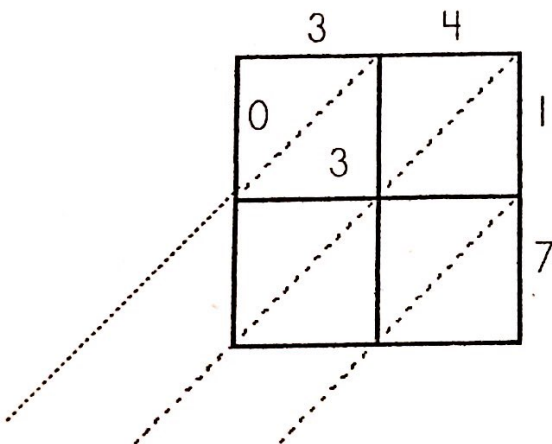
Step 2: Multiply the single digits on the top by the single digits on the side to fill in the squares.

Step 3: Add diagonally to find your answer.

Note: When adding, you may have to carry double digit sums to the next place.

Find  $34 \times 17$ .

Find  $86 \times 39$ .



Answer: \_\_\_\_\_

Answer: \_\_\_\_\_