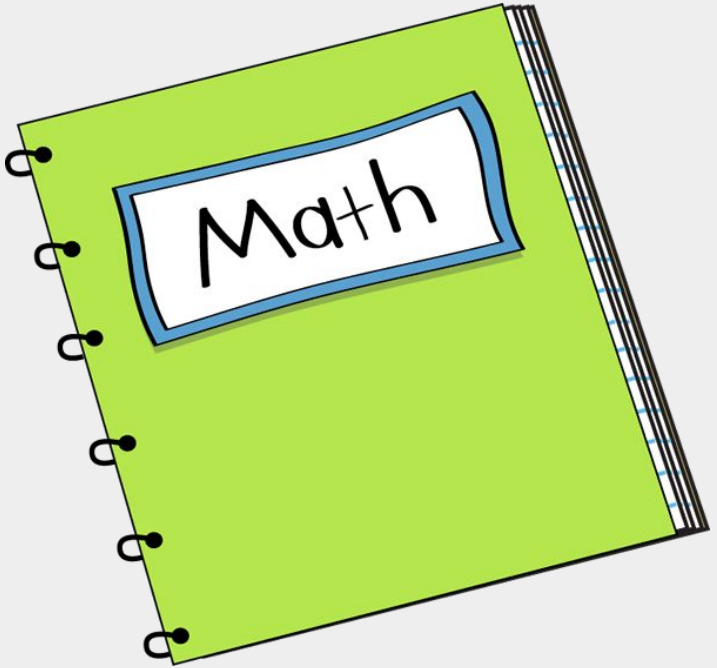
Welcome to our 4th grade Parent Learning Workshop



Today we will be looking at the Area Model Strategy of Multiplication.

This is the strategy we teach our students to use when multiplying.

Standard:

NBT5: Multiply a whole number of up to four digits by a one- digit whole number, and multiply two two-digit numbers.

For an area model, we need to create a diagram to show our <u>partial products</u>.

54 x 3 = ____

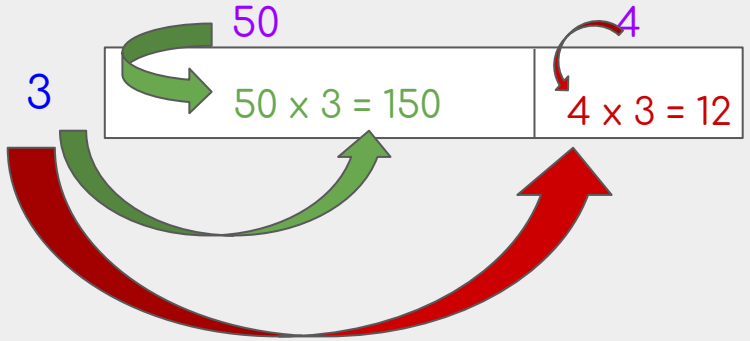
Step 1:
Decompose 54 into 50 and 4 and place them in our model.

Step 2:
Place your other factor into the model.

Step 3:
Match the factors and multiply.

Step 4:
Match the second set of factors and multiply.

Step 5:
Add the products.



$$\begin{array}{r} 150 \\ +\ 12 \\ \hline 162 \end{array}$$

54 x 3 = 162

74 x 24

Step 1: Let's decompose our first number. 74 = 70 + 4 These numbers go into our model across the top.

Step 2: Decompose the second factor. 24 = 20 + 4. These numbers go into our model to the side.

Step 3: Begin matching our boxes to multiply.

Step 4: Continue to the next box and match and multiply.

Step 5: Continue to the next box and match and multiply.

Step 6: Continue to the next box and match and multiply.

Step 7: Add to find the product.

	70	4
20	20 x 70 = 1400	20 x 4 = 80
4	4 x 70 = 280	4 x 4 = 16

$$\begin{array}{r} 1{,}400 \\ 280 \\ 80 \\ +\ \ 16 \\ \hline 1{,}776 \end{array}$$

99 x 36

Step 1: Let's decompose our first number. 99 = 90 + 9 These numbers go into our model across the top.

Step 2: Decompose the second factor. 36 = 30 + 6. These numbers go into our model to the side.

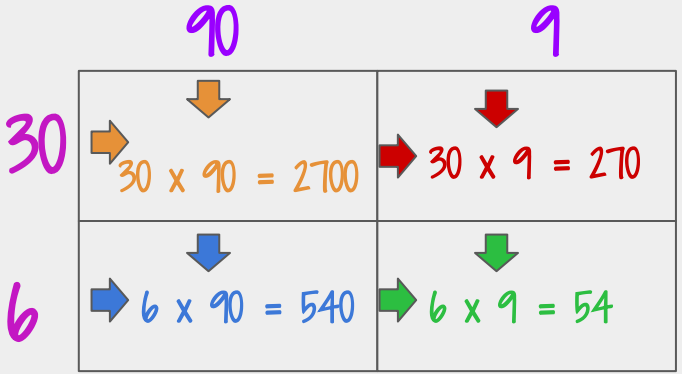
Step 3: Begin matching our boxes to multiply.

Step 4: Continue to the next box and match and multiply.

Step 5: Continue to the next box and match and multiply.

Step 6: Continue to the next box and match and multiply.

Step 7: Add to find the product.



$$\begin{array}{r} 2{,}700 \\ 540 \\ 270 \\ +\quad 54 \\ \hline 3{,}564 \end{array}$$

Questions?

Please take our survey!