Help! I can't do my kid's math.

Not Your Mother's Multiplication

Multiplication in the Everyday Math Program

Partial Products Method

In partial products multiplication, each factor is thought of as a sum of ones, tens, hundreds, and so on. For example, in 67×53 , 67 can be thought of as 60 + 7 and 53 as 50 + 3. Each part of one factor is then multiplied by each part of the other factor, and finally, all of the resulting partial products are added together.

$$\begin{array}{rrrr}
67 & = 60 + 7 \\
x & 53 & = 50 + 3 \\
\hline
3000 & = 50 \times 60 \\
350 & = 50 \times 7 \\
180 & = 3 \times 60 \\
+ & 21 & = 3 \times 7 \\
\hline
3,551 & = 60 + 7 \\
\end{array}$$

Lattice Method

Everyday Mathematics initial included lattice for recreational and historical interest, and because it provided practice with multiplying basic facts. It was a surprise that the method became so popular. Children have become very efficient with this method much to adults dismay. It is unfamiliar to most adults. The following link gives a history of Lattice Multiplication and another demonstration of the method. http://www.ualr.edu/lasmoller/medievalmult.html

To multiply 67 x 53: = 3.551

- 1. Draw a 2 by 2 lattice.
- Write one factor along the top of the lattice and the other along the right, one digit for each row or column.
- Multiply each digit in one factor by each digit in the other factor. Write the products in the cells where the corresponding rows and columns meet.
- Add the numbers along side the diagonals to find the product.

--from the Everyday Mathematics Series AJB 2007

