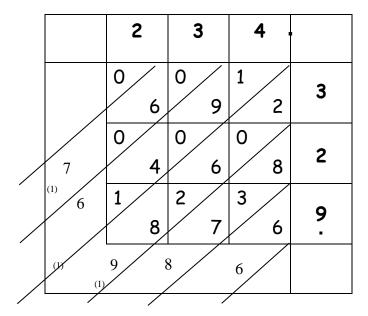
The lattice method for multiplication

This is another way of multiplying.

- Write the digits along the top and right sides of a grid, splitting each cell in the grid diagonally. Decimal points go on a grid line.
- Multiply each pair of digits, splitting the answer between left and right sides of the cell (if the answer <10, put a 0 in the left side).
- Now add up along each diagonal
- Put a decimal point where the two decimal point grid lines intersect, then follow this down along a diagonal line to find the decimal point position in the answer.
- Add up the digits between the diagonals, <u>starting at bottom right and carrying</u> <u>as appropriate.</u>
- Read off the answer. Check: the final number of decimal digits equals the total number of decimal digits before multiplication.

Example

"Multiply 234×329"



Here 7+3+8=18, write 8, carry (1) to the left.

8+2+6+2 + carried 1 = 19, write 9, carry (1) to left.

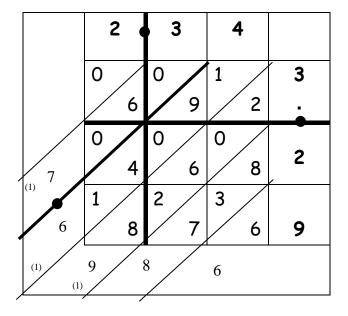
1+4+9+1+ carried 1 = 16, write 6, carry 1 to left

6+ carried 1=7.

The answer is 76986.

Example

"Multiply 2.34×3.29 " Note the lines showing the decimal point position. The answer is 7.6986



Check, 2.34×3.29 has 4 decimal digits, 7.6986 also has 4 decimal digits, yes!.