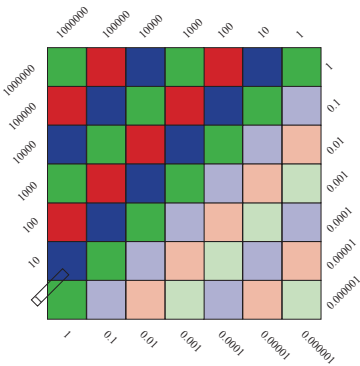
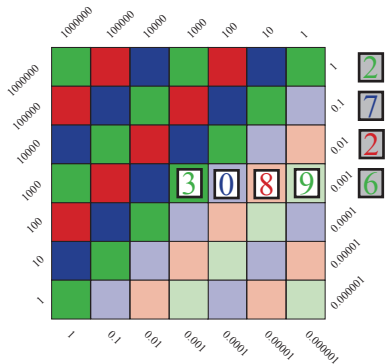


Known as the axis (where units in in the middle). Remember to build the board with your students and start with the whole section using the units in the middle of the axis.



Use the Checkerboard and have the children do the slide similar to the multiplication slide. Also have them regroup. This teaches them about place value of numbers. Number is on the bottom row or along the left side.

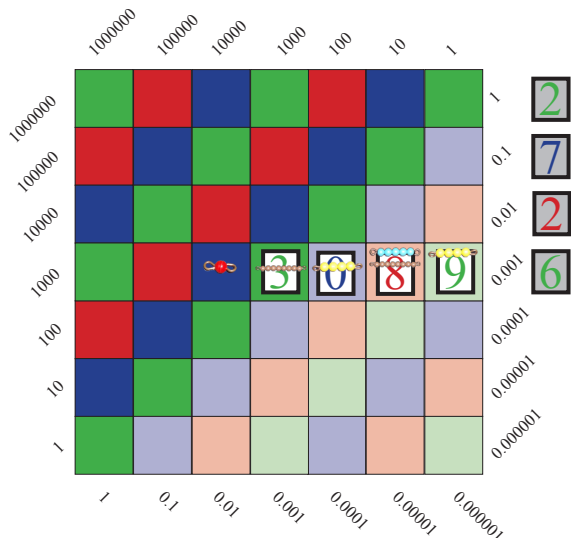
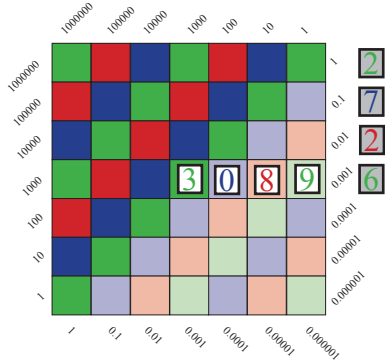
Decimal Number x Whole Number:



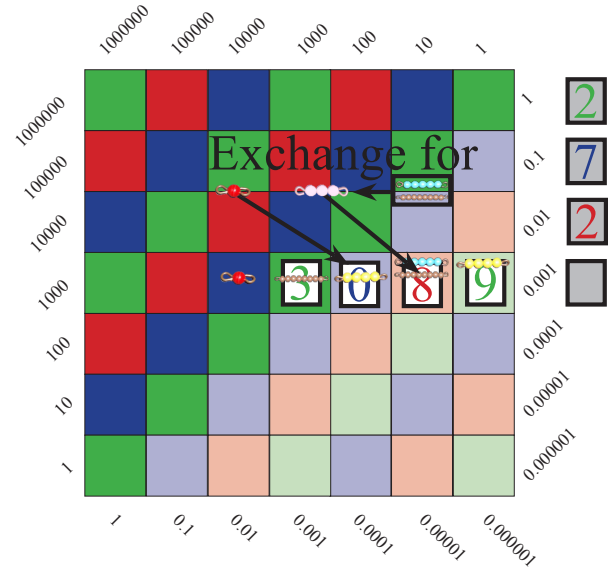
3 0 8 9 ← Multiplicand - can be on any row where the tiles are on the appropriate color scheme (must be on horizontal side of board).

2 7 2 6 ← Multiplier - Unit tile must line up with row multiplicand is on. Multiplier is not on any specific square. (must be on Vertical side of board).

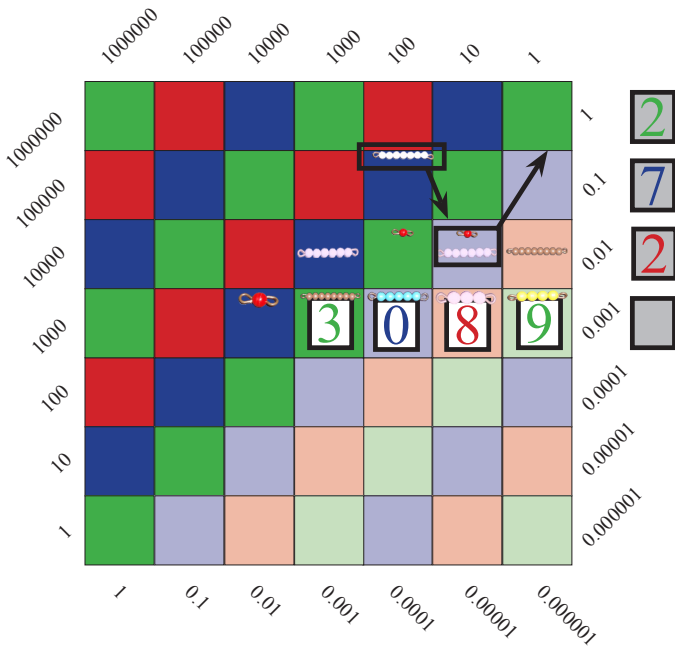
$$\begin{array}{r} 3.089 \\ \times 2726.000 \\ \hline 8420.614 \end{array}$$



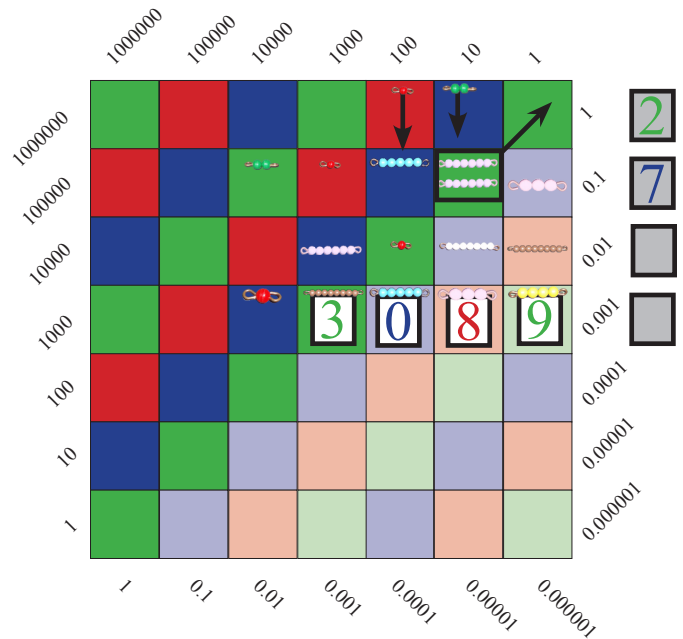
After laying out the tiles go ahead and multiply. Begin by multiplying 3089×6 .



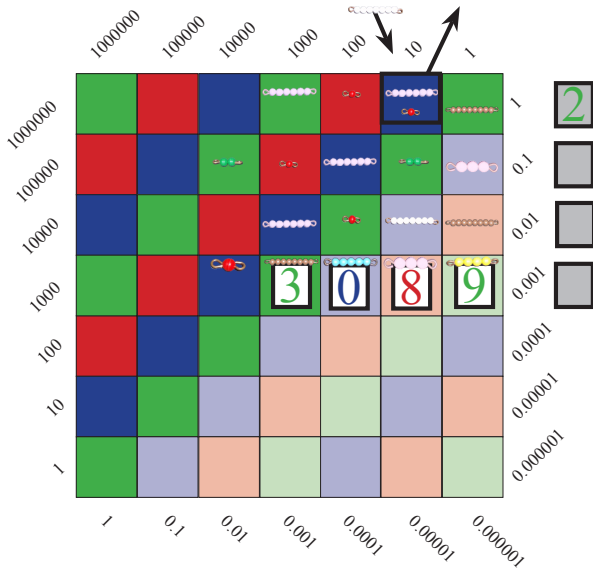
Exchange and record the partial product.



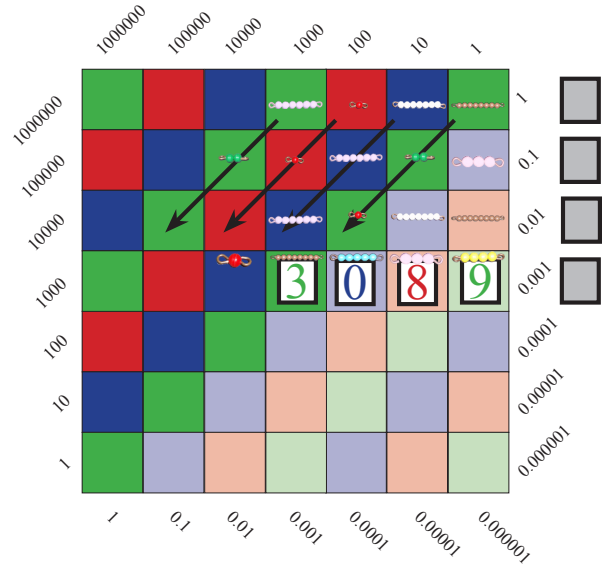
Multiply by the 10s place now: 3089×2 . Place in next row up (level with the 2). Simplify. Record PP.



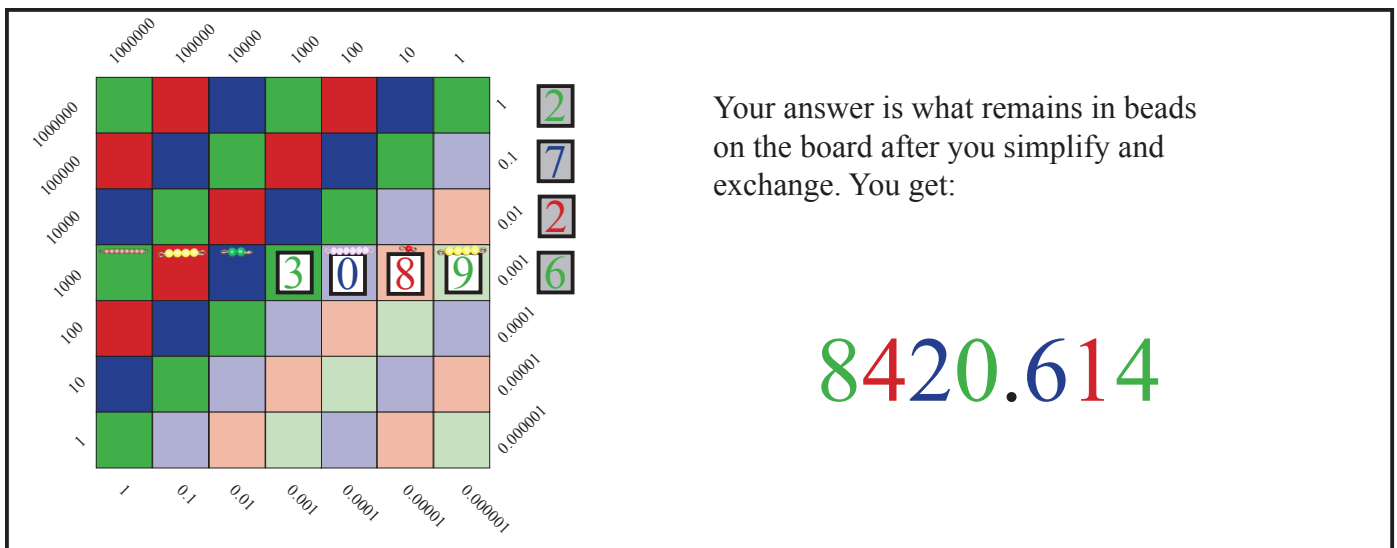
Multiply by the 10s place now: 3089×7 . Place in next row up (level with the 7). Simplify. Record PP.



Multiply by the 10s place now: 3089×2 .
Place in next row up (level with the 2). Simplify. Record PP.

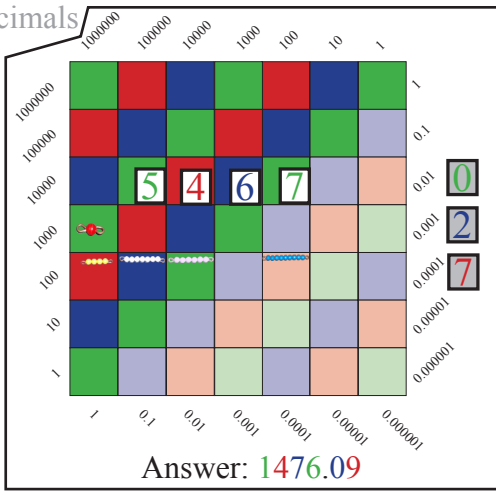


Slide and simplify. Make any exchanges if needed. Add PP together and compare answers.

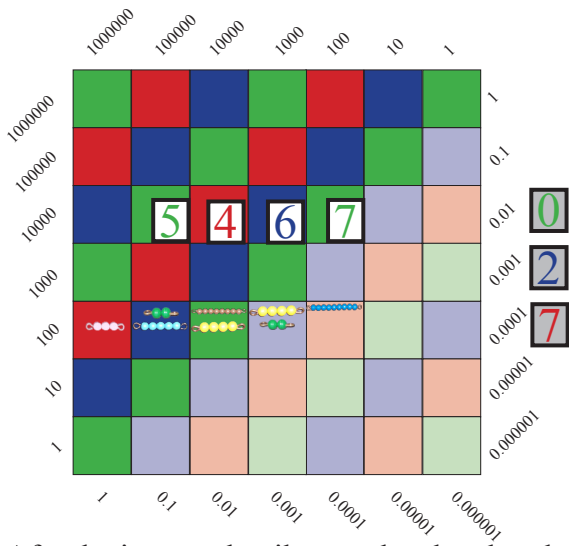


Your answer is what remains in beads on the board after you simplify and exchange. You get:

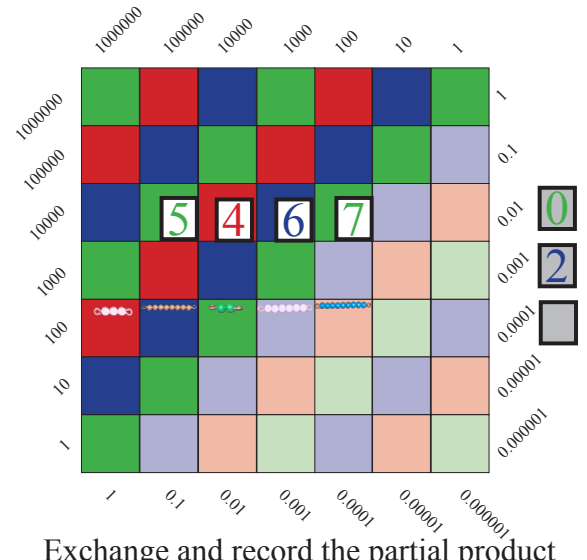
8420.614



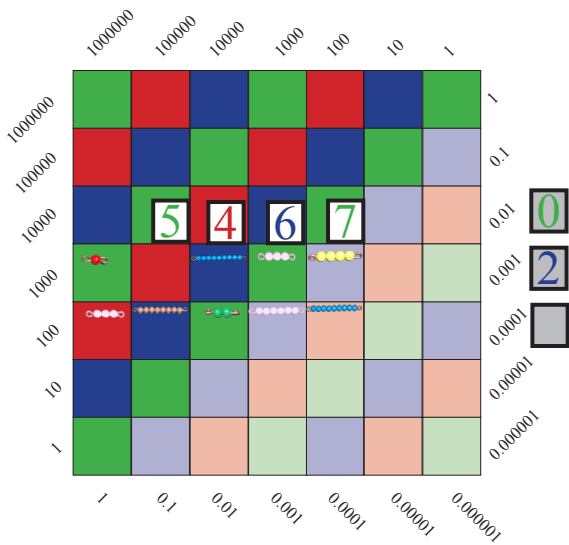
$$\begin{array}{r}
 5467 \\
 \times 0.27 \\
 \hline
 382.69 \text{ Partial Product 1} \\
 + 1093.40 \text{ Partial Product 2} \\
 \hline
 1476.09
 \end{array}$$



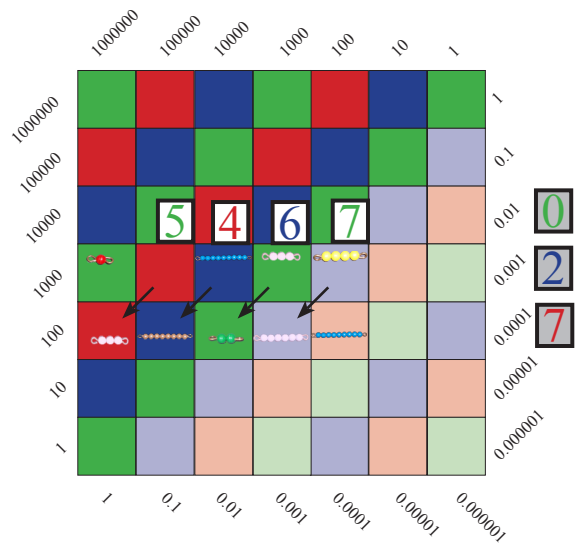
After laying out the tiles go ahead and multiply. Begin by multiplying 5467×2 .



Exchange and record the partial product of 382.69.

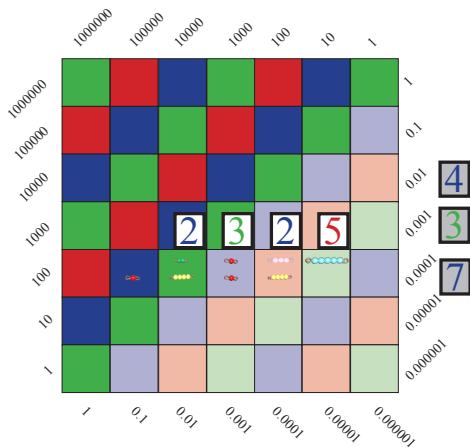


Multiply by the tenths place now: 5467×2 . Place in next row up (level with the 2). Simplify. Record PP of 1093.4.



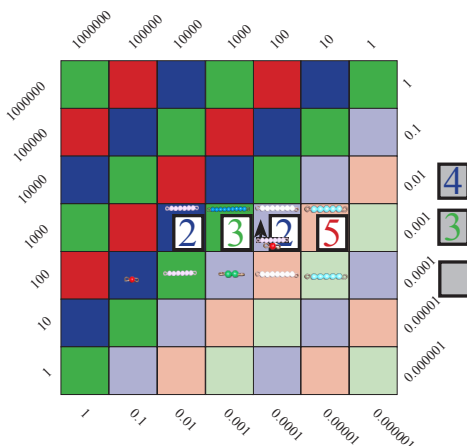
Since everything times 0 is 0. Slide down and simplify to get your final answer.

$$\begin{array}{r}
 23.25 \\
 \times 43.7 \\
 \hline
 16.275 \quad \text{Partial Product 1} \\
 69.750 \quad \text{Partial Product 2} \\
 + 930.000 \quad \text{Partial Product 3} \\
 \hline
 1016.025
 \end{array}$$

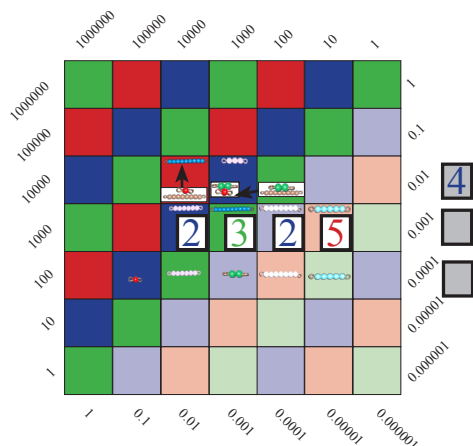


After laying out the tiles (unit of multiplier has to be in same row as multiplicand). Go ahead and multiply. Begin by multiplying 23.25×7 .

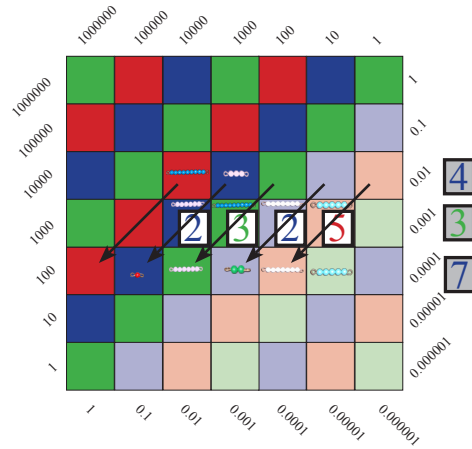
Simplify, exchange and record partial product of 16.275



Go ahead and multiply. Begin by multiplying 23.25×3 . Place in next row up (level with the 3). Simplify. Record PP of 69.75 .



Go ahead and multiply. Begin by multiplying 23.25×4 . Place in next row up (level with the 4). Simplify. Record PP of 930 .



Slide and simplify to get the final answer.
 Record it. Check by adding the partial products together.

