

Algorithms using Decimal Numbers

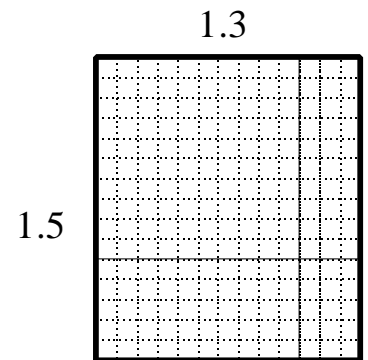
1. Addition - Why do you “line up the decimal points?”

$$\begin{array}{r} 3.26 \\ + 1.97 \\ \hline \end{array}$$

2. Subtraction - Why do you “line up the decimal points?”

$$\begin{array}{r} 3.60 \\ - 1.25 \\ \hline \end{array}$$

3. You can use Base 10 Blocks to give a visual of multiplication. A picture of 1.3×1.5 is given at the left. Write down the solution from the picture. Write the standard algorithm and be sure to identify each piece on the picture.



4. Multiplication - Why do you “count decimal points?”
Where is the Distributive Property used?

$$\begin{array}{r} 4.62 \\ \times 2.4 \\ \hline \end{array}$$

5. Division - Why do you “Move the decimal point?”
Where do equivalent fractions come into this algorithm?
Can you use repeated subtraction? (Don’t forget to read this as “152.5 is divided into groups of size 1.08.” Is this a Quotitive or Partitive view?)

$$\begin{array}{r} 152.5 \\ 1.08 \\ \hline \end{array}$$