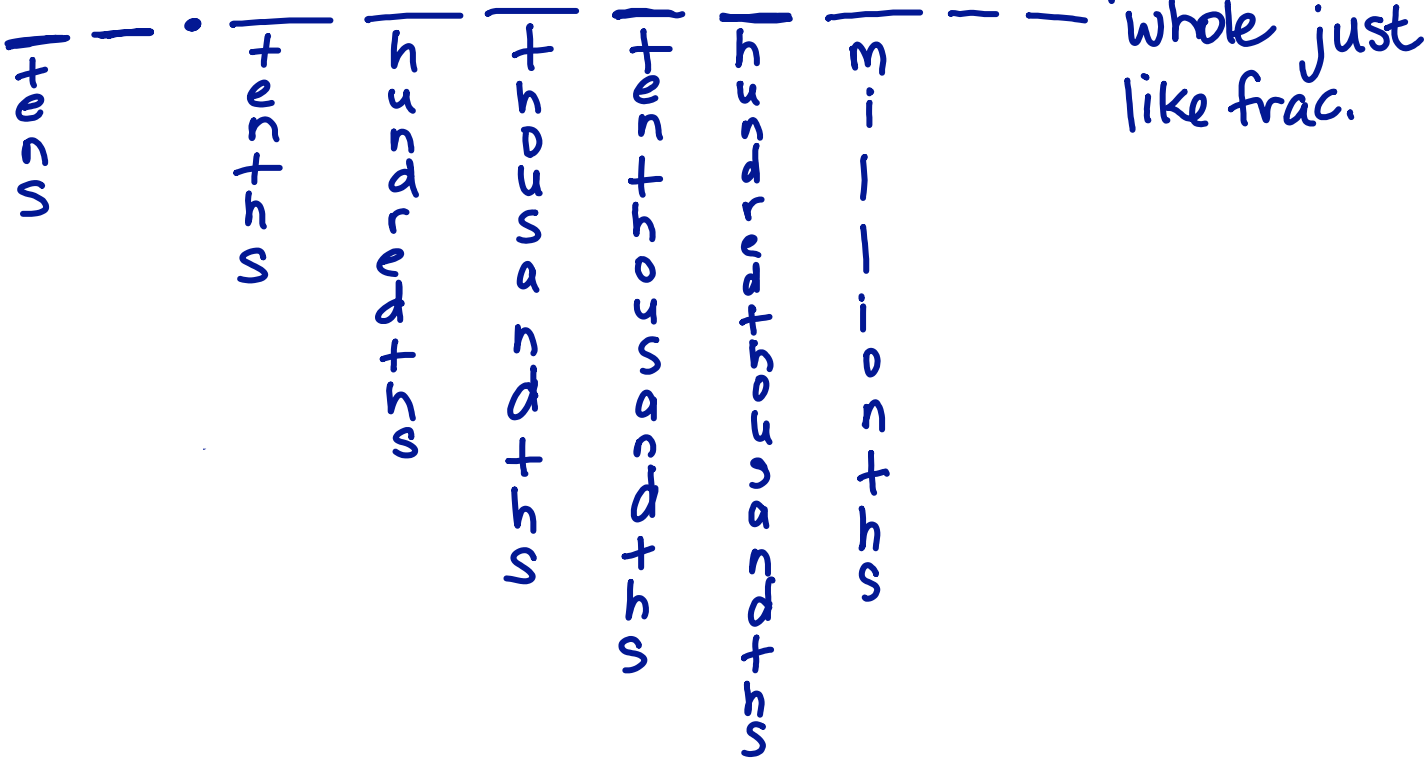
3-6 Add / Subtract Decimals

*must remember place values



Ex) $3\frac{4}{10} = \frac{40}{100}$ OR $3.\overset{3}{\cancel{4}}10$

$-\ 1\frac{7}{100} = \frac{7}{100}$ $\quad -\ 1.07$

$2\frac{33}{100}$ $\quad 2.33$

Ex) $15\frac{1}{5} = \frac{2}{10}$ OR 15.2

$+\ 9\frac{3}{10} = \frac{3}{10}$ $\quad +09.3$

$24\frac{5}{10} = 24\frac{1}{2}$ $\quad 24.5$

* When +/- dec. → must +/- same place values

1st STACK #s → line dec. up vertically

2nd put zeros so that each # has "a partner"

3rd +/- and bring dec. straight down

* Use graph paper. (1 # per block)

1) 6.4 + 3.3

$$\begin{array}{r} 6.4 \\ +\ 3.3 \\ \hline 9.7 \end{array}$$

2) 1.34 + 0.9

$$\begin{array}{r} 1.34 \\ +\ 0.90 \\ \hline 2.24 \end{array}$$

* whole # should line up w/ whole #s
* don't see dec. put behind #

3) 41.9 − 23.17

$$\begin{array}{r} 3\ \ 8 \\ 41.\cancel{9}\,10 \\ -\ 23.17 \\ \hline 18.73 \end{array}$$

could √ by adding

4) 58 − 16.32

$$\begin{array}{r} 7\ 9 \\ 58.\cancel{0}\,0 \\ -\ 16.32 \\ \hline 41.68 \end{array}$$

$$\cancel{58}^{7}.\cancel{0}^{9}0$$

5) $m = 67.19 - 35.093$

$\boxed{m = 32.097}$

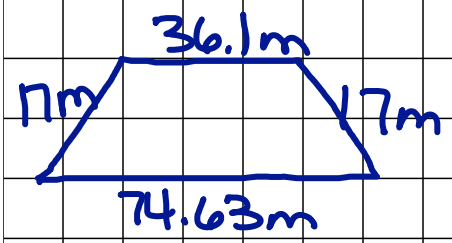
$$\begin{array}{r} 67.\overset{0}{1}\overset{8}{9}\overset{1}{0} \\ -\ 35.093 \\ \hline 32.097 \end{array}$$

6) Evaluate $r + s + t$ if $r = 55.1$, $s = 16$, and $t = 91.82$.

expression

$$\begin{array}{r} \overset{1}{5}5.10 \\ 16.00 \\ +\ 91.82 \\ \hline 162.92 \end{array}$$

7) Find the perimeter of a trapezoid with the following measures: 17 m, 36.1 m, 74.63 m, and 17 m.



$$
\begin{array}{r}
{\scriptstyle 2} \\
36.10 \\
17.00 \\
74.63 \\
+\ 17.00 \\
\hline
144.73\ \text{m}
\end{array}
$$