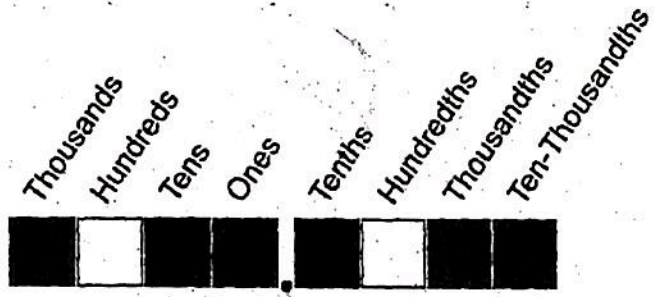


10/16 skills

# OPERATIONS WITH DECIMALS



## ADDITION/SUBTRACTION

- LINE UP decimal points
- ANNEX (attach) zeros, if necessary
- BRING DOWN decimal point
- ADD/SUBTRACT

Examples:

$$\begin{array}{r} 3.56 + 4.325 \\ 3.560 \\ + 4.325 \\ \hline 7.885 \end{array}$$

$$\begin{array}{r} 6 - 3.45 \\ 6.00 \\ - 3.45 \\ \hline 2.55 \end{array}$$

## MULTIPLICATION

- MULTIPLY as if whole numbers (ignore decimal points)
- COUNT the number of decimal places in the numbers being multiplied
- PLACE the decimal point in the answer by starting at the right and moving a number of places equal to the sum of the decimal places in both numbers multiplied.

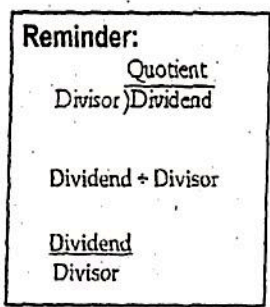
Example:  $3.77 \times 2.8 = ?$

$$\begin{array}{r} 3.77 \text{ (2 decimal places)} \\ \times 2.8 \text{ (1 decimal place)} \\ \hline 3016 \\ +754 \\ \hline 10.556 \text{ (3 decimal places)} \end{array}$$

## DIVISION

- DIVISOR MUST BE A WHOLE NUMBER  
If the divisor is not a whole number, move the decimal point to the right to make it a whole number and move the decimal point in the dividend the same number of places.
- ANNEX (attach) zeros, if necessary
- BRING UP decimal point directly above decimal point in the dividend.
- DIVIDE

Example:



$$\begin{array}{r} 424.9 \\ 38 \overline{) 1614.62} \\ \underline{30} \phantom{.62} \\ 31 \phantom{.62} \\ \underline{74} \phantom{.62} \\ 186 \phantom{.62} \\ \underline{152} \phantom{.62} \\ 342 \phantom{.62} \\ \underline{342} \\ 0 \end{array}$$