

Rule 21 - To Multiply by numbers near and under 100, find the difference between the number and 100 and take this difference times the number away from 100 times the number. Ex 4356×98 ; $(100-98=2)$

435600 is 100 times the number.

$$\begin{array}{r} 8712 \\ 426885 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ 98 \\ \hline \end{array}$$

Rule 22 - To Multiply by numbers near and over 100, find the difference as above and to 100 times the number add this difference times the number. Ex 7564×106 . $(106-100=6)$

756400 is 100 times the number

$$\begin{array}{r} 45384 \\ 861784 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ 106 \\ \hline \end{array}$$

Rule 23 - To Multiply by numbers under or over 1000 proceed as in last two rules using 1000 as multiplier instead of 100

Rule 24 - When the numbers will admit of it, multiply one and divide the other by the same number to make the work of multiplying more simple

Ex 115

by 28 double 40 and half 28 .

90×14 , double and half again =

$181 \times 7 = 1267$ The special advantage in this rule is in doing mental work!

2nd Ex $53 \times 18 = 106 \times 9 = 954$

or $35 \times 14 = 70 \times 7 = 490$

6 6 6 6 7 7 7 7 6 6 6 6 7 7 7 7 6 6 6 6 1 1
3 2 2 8 6 7 4 4 3 8 4 4 5 9 3 6 8 2 4 8 3 1

