

Rule 9.— Do Multiply numbers between 10 and 25 by each other, its one of the numbers add the units of the other, annex a cypher and add the product of the units.

Ex. —  $16 \times 15$ ;  $16 + 5 = 21$ , annex a 0's 210  
add  $6 \times 5$  or 30 = 240

Rule 10.— Do Multiply numbers of two digits each when the sum of the units makes 10, and the tens figures are alike, multiply the units for the 1st 2 figures from right and multiply the tens figures by the next higher number for remaining part of answer.

Ex. —  $63 \times 67$ ,  $3 \times 7 = 21$  1st. 2d. two figures  
 $6 \times 7 = 42$  rem. of answer

answer is 4221. The last 7 is next no. above 6

2nd Ex  $96 \times 94$ ,  $6 \times 4 = 24$ ;  $9 \times 9 = 81$ ;  $\therefore 90 = 4$  ans.

Rule 11.— Do Multiply numbers of two digits each when the sum of units makes 10 and the tens figures differ by 1, break up the two numbers so as to apply the rule — "The sum of two quantities into their difference equals the difference of their squares" Ex. —  $43 \times 37$

Break up the no's;  $43 = 40 + 3$ , and  $37 = 40 - 3$

$(40 + 3) \times (40 - 3) = 40^2 - 3^2 = 1600 - 9 = 1591$

2nd Ex. —  $79 \times 81 = (80 + 1)(80 - 1) = 80^2 - 1^2 = 6400 - 1 = 6399$

Special When adding long columns place a strip of paper or cardboard of some other color down by the column. This will be found of great assistance.

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