

Short Cuts

Rule 1. - To Multiply by 10 or any power of 10, as 100, 1000 etc, annex one cypher for each cypher in the multiplier or move the decimal point a corresponding n. of places to the right

Ex. - $327 \times 100 = 32700$ or $\frac{\text{places}}{\text{move}}$

$\sqrt{427563} \times 1000 = 4275630 = 4275630$

Rule 2. - To Divide by 10 or any power of 10 move the decimal point to the left as many places as there are cyphers in the Divisor

Ex $7294 \div 1000 = 7.294$ point moved 3 pls to left.

Rule 3. - To Multiply a number made up of 2 digits by 11 when sum of the two digits is less than 10 add the 2 digits & place result between

Ex $35 \times 11 = 385$ the 8 is sum of 3 & 5

Rule 4 To Multiply by 11 when their sum is 10 or more, add the two digits as above place right hand figure between and add the left one to the left hand figure

Ex $78 \times 11 = 758 = 858$ the 1st 8 is $7+1$ to carry.

Rule 5 To Multiply any number of digits by 11 put down the units figure then add the units and tens, then the tens and hundreds, the hundreds and thousands etc, carrying in each case where necessary

Ex $346582 \times 11 = 3812402$. First put down 2 then $2+8=10$ put down 0; $8+5=13$ & 1 to carry = 14, put down 4 carry 1 etc.

One may also multiply by 11 by putting down 1st figure then add 1st & 2nd, then 1st 2nd & 3rd not 2nd 3rd & 4th and so on

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