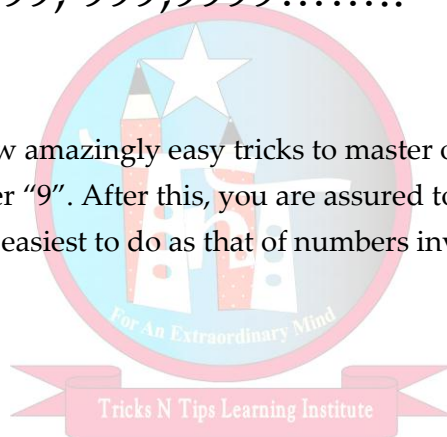


Free Math Mastermind Tricks

Tables and Multiplication of any numbers with
9, 99, 999, 9999.....

This Document shows few amazingly easy tricks to master otherwise dreaded calculations involving number "9". After this, you are assured to find that calculations involving "9", are easiest to do as that of numbers involving "0"





Free Math Mastermind Tricks

Tables and Multiplication of any numbers with 9, 99, 999,9999.....

Table of 9,99....

If a child knows table of 9, he can derive table of 99,999 9999....series at the fingertips.

If child has problem remembering table of 9, then just suggest him to write numbers 0 to 9 in ascending order from top to bottom.

Then again write 0-9 from bottom to top.

Thus you get table of 9.



Easy Tricks



Rapid Mental Math Technique

Table of 9

Write 0 to 9 in ascending order (from top to bottom)

Again write 0-9 from bottom to top (or in descending order)

↓

0	9
1	8
2	7
3	6
4	5
5	6
6	3
7	2
8	1
9	0

↑



Tables and Multiplication of any numbers with 9,
99, 999,9999.....

Table of 99

Once you master table of 99, deriving at tables of 99, 999
etc is as easy as table of 9.

Table of 99-

Write down table of 9 leaving one digit place in between.

For table of 99, insert "9" between two digits in your table

(see to right)



Table of 999—

Write down table of 9 leaving two digit places in between.

To get table of 999, insert "99" between two digits in your
original "9" table.

And so on.....

Easy Tricks



Rapid Mental Math
technique

Table of 99

Steps- write down
table of 9

Insert single "9"
between the two
numbers to get table
of 99

0 9 9

1 9 8

2 9 7

3 9 6

4 9 5

5 9 6

6 9 3

7 9 2

8 9 1

9 9 0



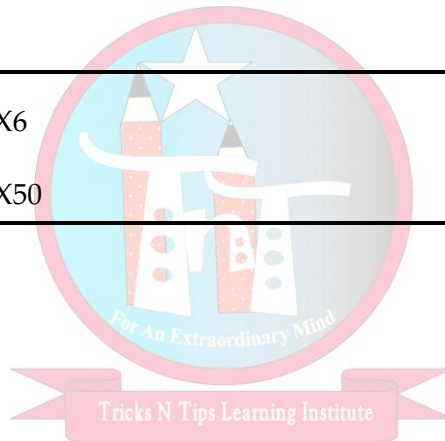
Multiplication By 9,99,999 etc

Multiply

99 X 56

Regular Method

99	
X56	
<hr/>	
594	Multiply 99X6
+4950	Multiply 99X50
<hr/>	
5544	Add
Ans = 5544	



Easy Tricks



Rapid Mental Math Techniques-

Step 1:

Subtract 1 from 56(the multiplicand)

$$56-1= 55$$

Step 2

Subtract 56 from 100(nearest full number to 99)

$$100-56= 44$$

Answer= 5544

Alternate method-

$$99=100-1$$

That means

(100 times 56)-(1 times 56)

$$=5600-56$$

$$=5544$$



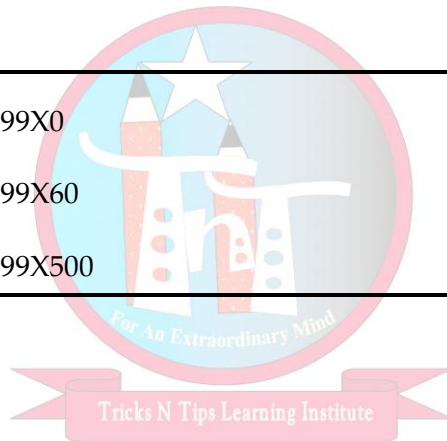
Multiplying any 3 digit number by 999

Multiply

$$999 \times 560$$

Regular method

999	
X 560	
000	Multiply 999X0
+ 5940	Multiply 999X60
+49500	Multiply 999X500
559440	Add
Ans=559440	



Easy Tricks



Rapid Mental Math-

Step 1:

Subtract 1 from 560

$$56-1= 549$$

Step 2

Subtract 56 from 100

$$100-56= 440$$

$$\text{Answer}= 549440$$

Alternate method-

$$999=1000-1$$

That means

$$(1000 \text{ times } 560) - (1 \text{ times } 560)$$

$$=56000-560$$

$$=559440$$

$$\text{Ans}=559440$$

Free Math Mastermind Tricks



Practice on your own.

Write down below answers. Max time allowed- 7.5 minutes.

Sum	Answer
999 X 786 =	
99 X 65 =	
99 X 87 =	
9999X4563 =	
999X767 =	
9999X1090	
99 X 78 =	
878X999 =	
10245X99999 =	
999X567 =	
987X999 =	
99X45 =	
9999X8970 =	
999X253 =	

Learn-

Rapid mental addition & subtraction

Division of any number by any number

Multiplication of any number by any number

Squares

Square roots

Series

Patterns

Intelligent guessing

Visual reasoning

All above 15-20 times faster than the regular methods.

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[Conceptual Physics for Class VIII+](#)





