FIVE POWERFUL AND MUST-KNOW VEDIC MATH TRICKS YOU TO ENHANCE SPEED OF CALCULATIONS!

Editorial Team 'VEDIC MATH WORLD'

#PowerOfVedicMath #VedicMathTricks #VedicMathWorld #VMLS

The word 'Veda' is derived from the Sanskrit word 'Vid' which means 'Knowledge'. Vedas are the invincible ancient Indian literature. They are the oldest-ever texts to make implicit and explicit use of mathematics. Vedas are the earliest Indian scriptures. It really amazes any intellectual to see the level of advancement of the mathematical knowledge in 1500BCE text which originated in India and later in its commentaries by Indian Intellectuals then!

Research is being conducted to measure the effects of learning Vedic mathematics on the brain of a child. It suggests that Vedic Math develops the *logical aspect* of a child's brain. It provides a child the freedom to create his/her own method to reach to the correct answer of the given question. Vedic Mathematics provides quick and fast one-line formulae which speeds up mental calculation. It helps any person to solve complex problems quite quickly.

Let's talk about FIVE such POWERFUL tricks of VEDIC MATH. You will definitely be able to calculate mentally and fast concerning the areas of the tricks taught here, once you go through the entire article. If you want to see the video about the same tricks, you can click on the link given below each trick.

SMART TRICK#1

Multiplication with 5.

Video Explanation Link: https://youtu.be/4rhKYJzsOl8

The only catch here is, read 5 as (10/2). So, put one zero behind the number to be multiplied with 5, and divide it by 2. Look at the example below and try to understand the steps to do mentally. This method is very effective which shall help you to solve the question in just few seconds!

Q: 6842 X 5

= 6842 X (10/2)

= (6842 X 10) / 2

= 68420 / 2

= 34210

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Q: 345 X 5

= 3450/2 (a direct step to be done in mind)

=1725

SMART TRICK#2

Multiplication of any two 2-digit numbers:

Video Explanation Link: https://youtu.be/4rhKYJzsOI8

The following method shall be extremely helpful in multiplying any two 2-digit numbers mentally with in just a few seconds! The method looks a little big but once you understand it, you shall be amazed to see the lightning speed that you shall develop in calculating any two 2-digit numbers! Practice is must.

Q: 23 X47

2 3   X   4 7

Step1:

(10's digit of the 1st number)

X

(10's digit of the 2nd number)

2 X 4 = 8

Write it in two digits

08

Step2:

(unit digit of the 1st number)

X

(unit digit of the 2nd number)

3 X 7 = 21

Write it in two digits

21

Step 3:

{(10's digit of the 1st number) X (unit digit of the 2nd number)} + {(unit digit of the 1st number) X (10's digit of the 2nd number)}

(2X7) + (3X4) = 26

Write in two digits

26

```
      0  8      2  1
+        2      6  0
  ─────────────────
      1  0      8  1
```

Answer: 1081

SMART TRICK#3

To multiply any two 3-digit numbers:

Video Explanation Link: https://youtu.be/4rhKYJzsOl8

Let two numbers be 'abc' and 'def'.

abc×def = (a×d)/(a×e+b×d)/(a×f+b×e+c×d)/(b×f+c×e)/(c×f)

This trick is derived from the knowledge of our Vedas. This method of multiplication is basically the application of a Vedic Sutra Urdhva – tiryagbhyam (ऊर्ध्व तिर्यग्भ्याम्). This sutra means "Vertically and Crosswise". If you see the below figure, you shall notice, the digits are multiplies in a specific pattern vertically and crosswise. Focus on the given arrows and try to follow the steps.
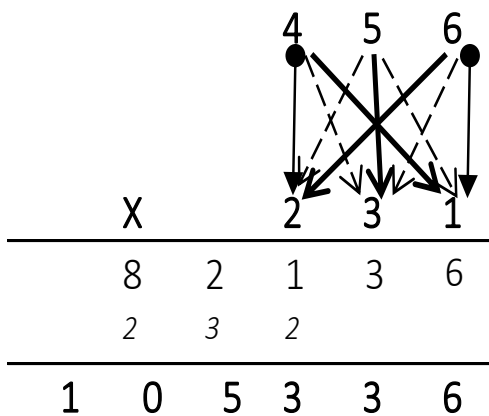
Let's say we need to multiply 123 with 102.

Q: 123 X 102
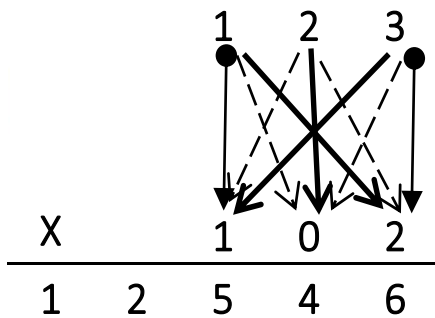
Step 1:	(1X1) =	1
Step 2:	(1X0) + (2X1) =	2
Step 3:	(1X2) + (3X1) + (2X0) =	5
Step 4:	(2X2) + (3X0) =	4
Step 5:	(3X2) =	6

```
  1   2   3
X     1   0   2
_____
1   2   5   4   6
```

Answer: 12546

Q: 456 X 231 (concept of carry forward)

Step 1:	(4X2) =	8
Step 2:	(4X3) + (5X2) =	22
Step 3:	(4X1) + (6X2) + (5X3) =	31
Step 4:	(5X1) + (6X3) =	23
Step 5:	(6X1) =	6

```
  X      2   3   1
        8   2   1   3   6
          2   3   2
  _____
  1   0   5   3   3   6
```

Answer: 105336

The above trick is extremely helpful in multiplying any two 3-digit numbers mentally with in just a few seconds!

SMART TRICK#4

To multiply any number with the number made up of 9's.
Video Explanation Link: https://youtu.be/4rhKYJzsOI8

In this trick, As many digits one number contains, the other number contains the same number of nines. For an example, (876 X 999). Here 876 contain three digits. And another number is 999 which contains three nines.

Q: 38 X 99

Step 1: lessen 1 from 38 and put the result of Left Hand Side (LHS).
(38 – 1 = 37)
Step 2: Write 99 on Right Hand Side (RHS).
After step 2, we can have 3799
Step 3: subtract the number got at the end of step 1 from the above number.
3799 – 37 = 3762
So, 3762 would be the answer.

	3	8
X	9	9

LHS	RHS
38 - 1	99
37	99
-	37
37	62
Answer: 3762	

Q: 637 X 999

	6	3	7
X	9	9	9

LHS	RHS
637 - 1	999
636	999
-	636
636	363

Answer: 636363

SMART TRICK#5

Square of the numbers between 90 to 110
Video Explanation Link:
https://youtu.be/4rhKYJzsOI8
Here, we would take '100' as base. We would do the mind calculations with three simple steps:
Step 1: Find the difference from base i.e. [(Number) – (Base)]
Step 2: (Number itself) + (difference).
This makes the first two digits of the answer.

Step 3: Square of a difference. This makes the last two digits of the answer. If the square is of three digits, we need to keep last two digits of it which represent last two digits of the answer. The hundreds place would be carried forward. Let's understand this more by taking a few examples:

Q: $(99)^2$

Step 1: Find the difference from base

$99 - 100 = (-1)$

Step 2: $(99) + $ (difference)

$99 + (-1) = 98$

Step 3: Square of the difference to be written in two digits

$(-1)^2 = 01$

So, it comes to 9801.

Thus, the answer comes to 9801.

Q: $(108)^2$

Step 1: Find the difference from base

$108 - 100 = (8)$

Step 2: $(108) + $ (difference)

$108 + (8) = 116$

Step 3: Square of the difference to be written in two digits

$(8)^2 = 64$

So, it comes to 11664

Thus, the answer comes to 11664.

Hope you enjoyed these tricks. Practice with these tricks, we are sure you shall soon be 'Human Computers'. We are with you in this journey! If you want to have video explanations for the same, you can click the link below!

Video Explanation Link:

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