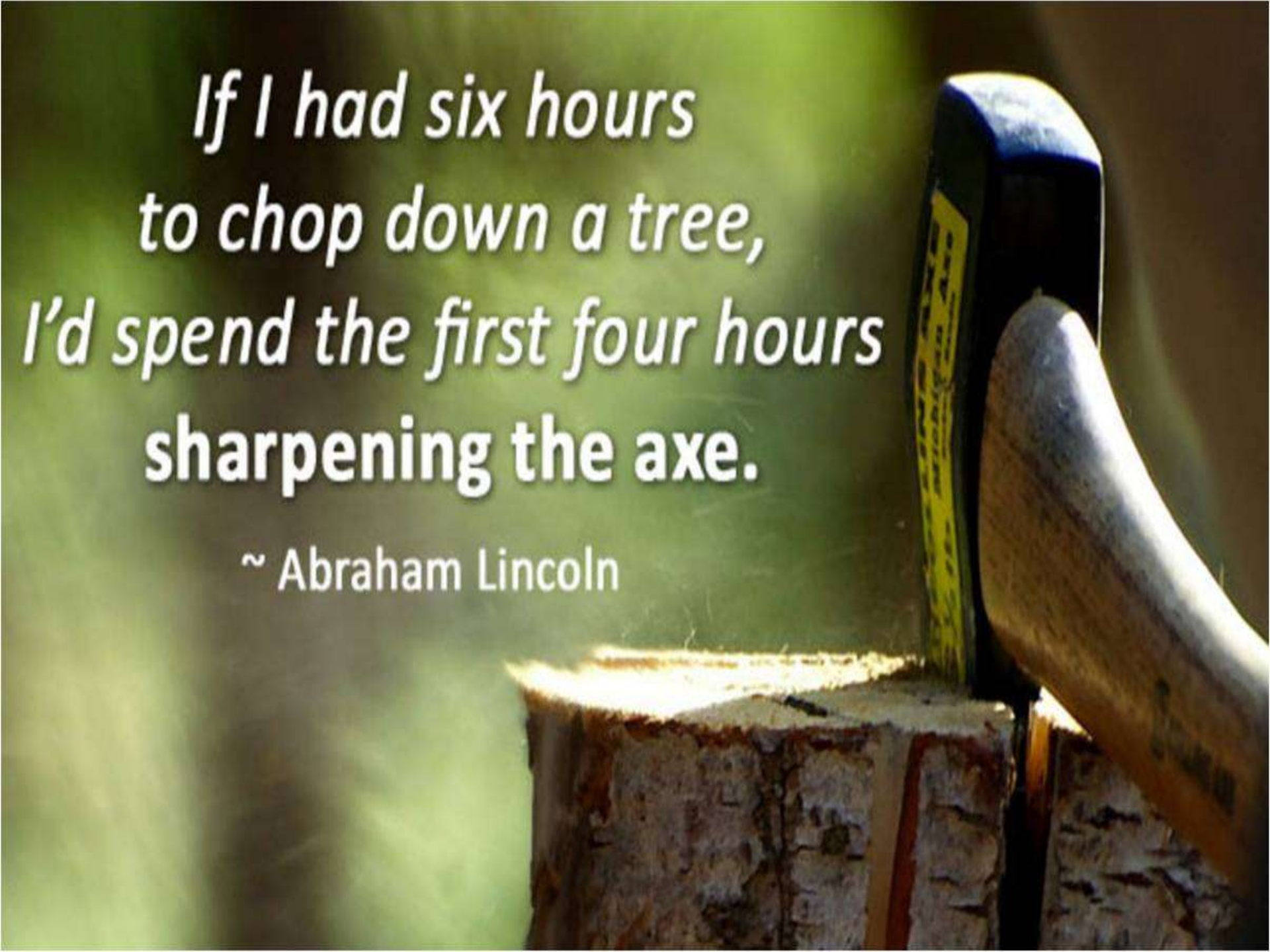

If I had six hours
to chop down a tree,
I'd spend the first four hours
sharpening the axe.
~ Abraham Lincoln

Vedic Mathematics Part I

CONTENTS:

PART I

- ADDITION
- SUBTRACTION
- SQUARES
- CUBE ROOTS

By

Income Inspector Mayank Gupt

Contents

PART I
- ADDITION
- SUBTRACTION
- SQUARES
- CUBE ROOTS

PART II
- SQUARE ROOT
- MULTIPLICATION

Part III
- %
- Fastest Division

Addition

+7+4=11

-7-4=-11

+7-4=3

-7+4=-3

If there are same sign : Addition

If there are different sign: Subtraction

Answer will have the sign of greater number

Look at the Bigger Side First

9+17=

17+9=

Double if the numbers are close

- 5+6=2*5+1=11
- 5+7=2*5+2=12
- 14+16=2*14+2=2*16-2=30
- 17+21=2*17+4=38

Aim for Zeros

- 17+9
- (17+3+6)
- 20+6
- **26**

Aim for Zeros

- 393 + 88
- (393 + 7) + (88 – 7)
- 400 + 81
- **481**

Aim for Zeros(Subtraction)

- 566 – 152
- (566 – 66) – (152 – 66)
- 500 – 86
- **414**

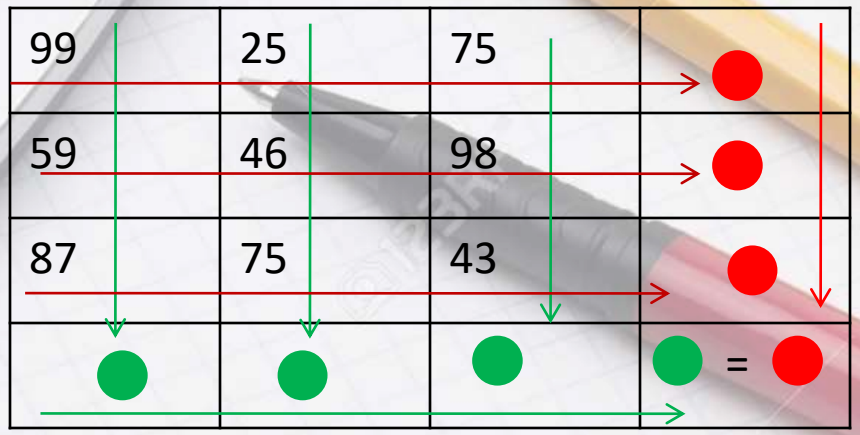
Subtracting from 1,000

1,00,000 – 73894.

- 9 – 7 = 2
- 9 – 3 = 6
- 9 – 8 = 1
- 9 – 9 = 0
- 10 – 4 = 6
- **26106**

Addition table

https://www.random.org/integers/



Addition & Subtraction Together

4961-8123+7732-2181

Unit Place (+1-3+2-1=(-1))

10th Place (+6-2+3-8=(-1))

100th Place (+9-1+7-1=(14))

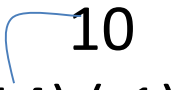
1000th Place (4-8+7-2=(1))

Answer from above calculation:

(1)(14)(-1)(-1)

Addition & Subtraction Together

- Step II : Now problem is the –ve sign, Take carry from left adjacent number and 1 carry will be equivalent to 10



- (1) (14) (-1) (-1)

- (1)(13)(9)(-1)

- **Ans: 2389**

Addition & Subtraction Together

4561-8526+7732-2689

Unit Place (+1-6+2-9=(-12))

10th Place (+6-2+3-8=(-1))

100th Place (+5-5+7-6=(1))

1000th Place (4-8+7-2=(1))

Answer from above calculation

(1)(1) (-1)(-12)

Addition & Subtraction Together

- Step II : Now problem is the –ve sign, Take carry from left adjacent number and 1 carry will be equivalent to 10

- (1) (1) (-1) (-12)

- (1)(0)(9)(-12)

- **Ans: 1078**

Squares

- Last Digit 5
- $(a + b)^2 = a^2 + 2ab + b^2$
- Base Method

➢Last Digit 5

- $(A5)^2=(A)(A+1)\ 25$
- $(45)^2=(4)(4+1)\ 25$

  $=4*5\ 25$

  $=2025$

- $(115)^2=(11)(11+1)\ 25$

  $=11*12\ 25$

  $=13225$

➢ $(a + b)^2 = a^2 + 2ab + b^2$

$(a + b)^2 = a^2 / 2ab / b^2$

- $(73)^{2=}\ 7^2 / 2*7*3 / 3^2$

  $= 49 / 42 / 9$

  $=5329$

- $(112)^{2=}\ 11^2 / 2*11*2 / 2^2$

  $= 121 / 44 / 4$

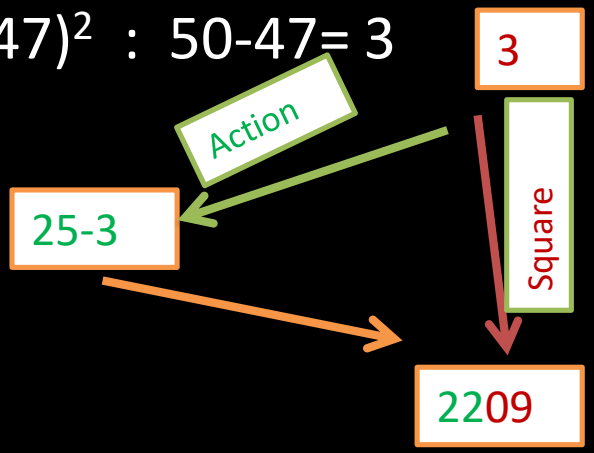
  $=12544$

➢Square Base Method

Frame	Range	Action	Difference
I	26-50	25-Differnce	50
II	51-75	25+Differnce	50
III	76-100	Digit- Difference	100
IV	101-……	Digit+ Difference	100

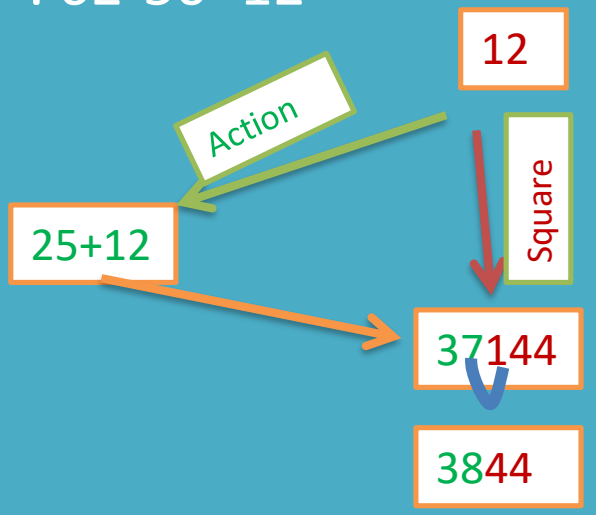
Frame I

- $(47)^2$: 50-47= 3



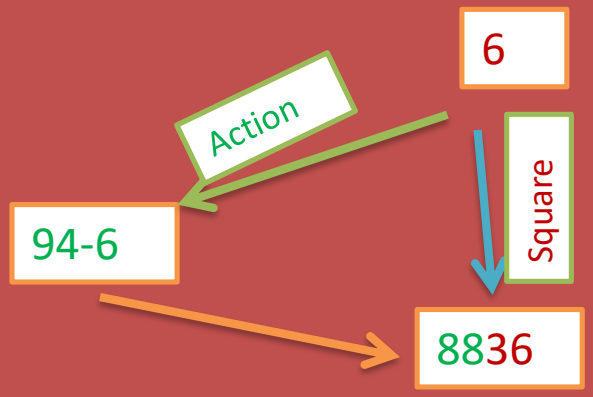
Frame II

- $(62)^2$: 62-50=12



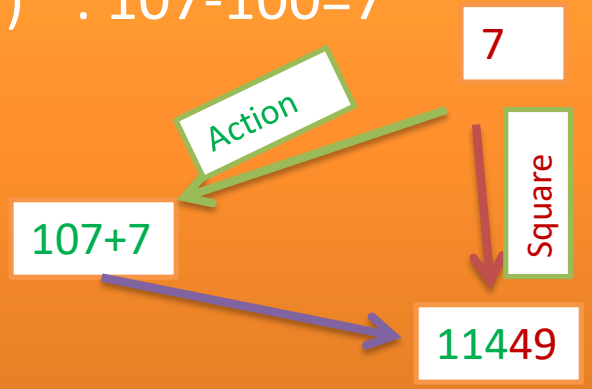
Frame III

- $(94)^2$: 100-94= 6



Frame IV

- $(107)^2$: 107-100=7



➢Cube root

Number	Cube
1	1
2	8
3	27
4	64
5	125
6	216
7	343
8	512
9	729
10	1000
11	1331
12	1728
13	2197
14	2744
15	3375

2, 3,7,8

$(157,464)^{1/3}$:Unit digit not from 2,3,7,8

Unit digit =4

$5^3 = 125 < 157 < 6^3 = 216$

54

$(804,357)^{1/3}$:Unit digit is from 2,3,7,8

Unit digit =7 ➡ 10-7=3

$9^3 = 729 < 804 < 10^3 = 1000$

93

$(2460375)^{1/3}$:Unit digit not from 2,3,7,8

Unit digit =5

$13^3 = 2197 < 2460 < 14^3 = 2744$

135

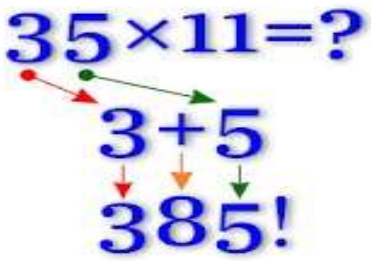
$(493039)^{1/3}$:Unit digit not from 2,3,7,8

Unit digit =9

$7^3 = 343 < 2460 < 8^3 = 512$

79

Practice APP



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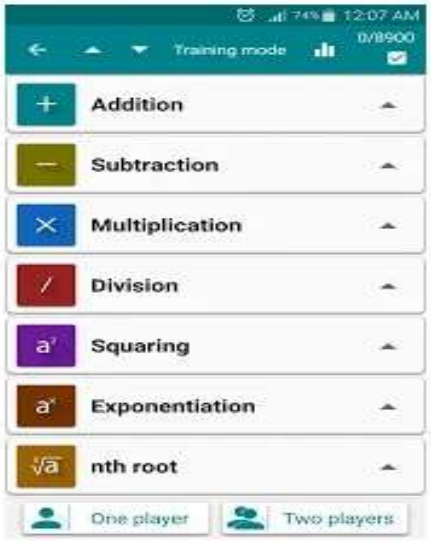

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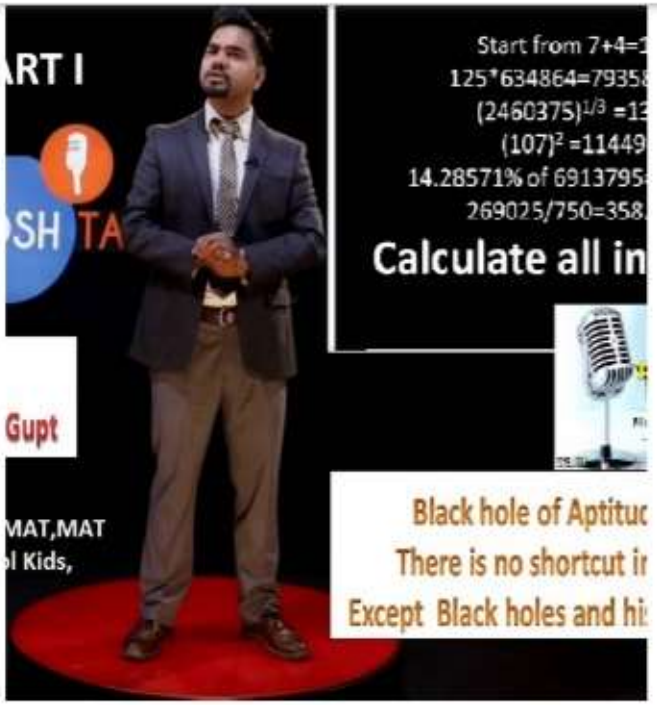

Posted on 20-Jul-2019

Call Centre to Centre of Attraction

"Satisfaction leads to downfall
Fight for justification not satisfaction"

Mayank Gupt had a dream of working in a call centre to earn 15000/month(which was three times of his teacher's salary) ,today he is less known for working with Income Tax Department th...

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Posted on Jul 27, 2020

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