

Square With Last Digit 5.

i)  $35^2 = \underline{1225}$

Last two Digit is the Square of 5. that is **25** — (i)

for first two digit

ADD =  $3+1=4$  (ii)

Multiply  $3 \times 4 = 12$  — (ii)

Combine both (i) & (ii), we get Square of 35.

$35^2 = \underline{1225}$

ii)  $65^2 = \underline{4225}$

Last two Digit is square of 5 = **25** — (i)

for first two digit

ADD =  $6+1=7$

Multiply  $6 \times 7 = 42$  — (ii)

Combine both (i) & (ii), we get Square of 65.

$65^2 = \underline{4225}$

iii)  $125^2 = 15625$

Last two digit are Square of 5 = **25** — (i)

For first three digit

ADD =  $12+1=13$

Multiply  $\Rightarrow 12 \times 13 = 156$  — (ii)

Combine both (i) & (ii), we get Square of 125.

$125^2 = 15625$



Square between 30 to 50

\* Square of digit between 32 to 99 are always in four digits.

i)  $37^2 = 1369$

Ist Step  $\Rightarrow 50 - 37 = 13$   
 Square of 13 = 169  $\leftarrow$  Last two Digit — (i)

IIInd step  $\Rightarrow 25 - 13 = 12$  — (ii)

Combine both like this

$$\begin{array}{r} 12 \text{ — (ii)} \\ + 169 \text{ — (i)} \\ \hline 1369 \end{array}$$

We have Square of  $37^2 = 1369$

ii)  $46^2 = 2116$

Ist Step  $\Rightarrow 50 - 46 = 4$   
 Square of 4 = 16  $\leftarrow$  Last two Digit — (i)

IIInd step  $\Rightarrow 25 - 4 = 21$  — (ii)

Combine both like this

$$\begin{array}{r} 21 \text{ — (ii)} \\ + 16 \text{ — (i)} \\ \hline 2116 \end{array}$$

We have Square of  $46 = 2116$



Square between 50 to 80

i)  $62^2 = \underline{3844}$

Ist Step  $\Rightarrow 62 - 50 = 12$

Square of 12 =  $\underline{144}$   $\leftarrow$  Last two Digit — (i)

IIInd Step  $\Rightarrow 25 + \underline{12} = 37$  — (ii)

Combine both Like this

$$\begin{array}{r} 37 \text{ — (ii)} \\ + \underline{144} \text{ — (i)} \\ \hline \underline{3844} \end{array}$$

We have Square of 62 = 3844

ii)  $78^2 = \underline{6084}$

Ist Step  $\Rightarrow 78 - 50 = 28$

Square of 28 =  $\underline{784}$   $\leftarrow$  Last two Digit — (i)

IIInd Step  $\Rightarrow 25 + 28 = 53$  — (ii)

Combine both Like this

$$\begin{array}{r} 53 \\ + \underline{784} \\ \hline \underline{6084} \end{array}$$

We have Square of 78 = 6084



Square Between 80 to 100

1)  $88^2 = \underline{7744}$

Ist Step  $\Rightarrow 100 - 88 = 12$

Square of 12 =  $\underline{144}$   $\leftarrow$  Last two Digit — (i)

IInd Step  $\Rightarrow 88 - 12 = 76$  — (ii)

Combine both like that

$$\begin{array}{r} 76 \text{ — (ii)} \\ + 144 \text{ — (i)} \\ \hline \underline{7744} \end{array}$$

We have Square of 88 = 7744

II)  $94^2 = \underline{8836}$

Ist Step  $\Rightarrow 100 - 94 = 6$

Square of 6 =  $\underline{36}$   $\leftarrow$  Last two Digit — (i)

IInd Step  $\Rightarrow 94 - 6 = 88$  — (ii)

Combine both like this

$$\begin{array}{r} 88 \\ + 36 \\ \hline \underline{8836} \end{array}$$

We have Square of 94 = 8836



Square Between 100 to 130

\* Square of digit between 100 to 316 are always in five Digits

i)  $106^2 = \underline{11236}$

Ist step  $\Rightarrow 106 - 100 = 6$

Square of 6 = 36  $\leftarrow$  Last two Digit — (i)

IIInd step  $\Rightarrow 106 + 6 = \underline{112}$  — (ii)

Combine both like this

$$\begin{array}{r} 112 \text{ — (ii)} \\ + \quad 36 \text{ — (i)} \\ \hline \underline{11236} \end{array}$$

We have Square of 106 = 11236

ii)  $126^2 = \underline{15876}$

Ist step  $\Rightarrow 126 - 100 = 26$

Square of 26 = 676  $\leftarrow$  Last two Digit — (i)

IIInd step  $\Rightarrow 126 + 26 = 152$  — (ii)

Combine both like this

$$\begin{array}{r} 152 \\ + \quad 676 \\ \hline \underline{15876} \end{array}$$

We have Square of 126 = 15876