



*Mahendra's*



# यूपी पुलिस एसआई परीक्षा 2021

(Number System)

## *Introduction*



संख्यात्मक योग्यता

• **LIVE**

**01:00 PM**



## SQUARE OF NUMBERS FROM 100 TO 1000

1 to 100

Special Case:-

Base number  $\rightarrow$  100 @ multiple of 100

eg:  $\boxed{116^2}$

Base Number  $\leftarrow$  (100)  $\rightarrow$  (+16)

$$\begin{array}{r} 13456 \\ \hline 2 \end{array}$$

$$116 + 16 = \underline{132}$$

## SQUARE OF NUMBERS FROM 100 TO 1000

If base number is multiple of 100

$$\begin{array}{r}
 212^2 \\
 \hline
 +12 \\
 \hline
 200
 \end{array}$$
  

$$\begin{array}{r}
 212 \\
 +12 \\
 \hline
 2(224)
 \end{array}$$

$$\begin{array}{r}
 44944 \\
 \hline
 1 \\
 \hline
 218^2
 \end{array}$$

$$18^2 = 324$$

$$24$$

## SQUARE OF NUMBERS FROM 100 TO 1000

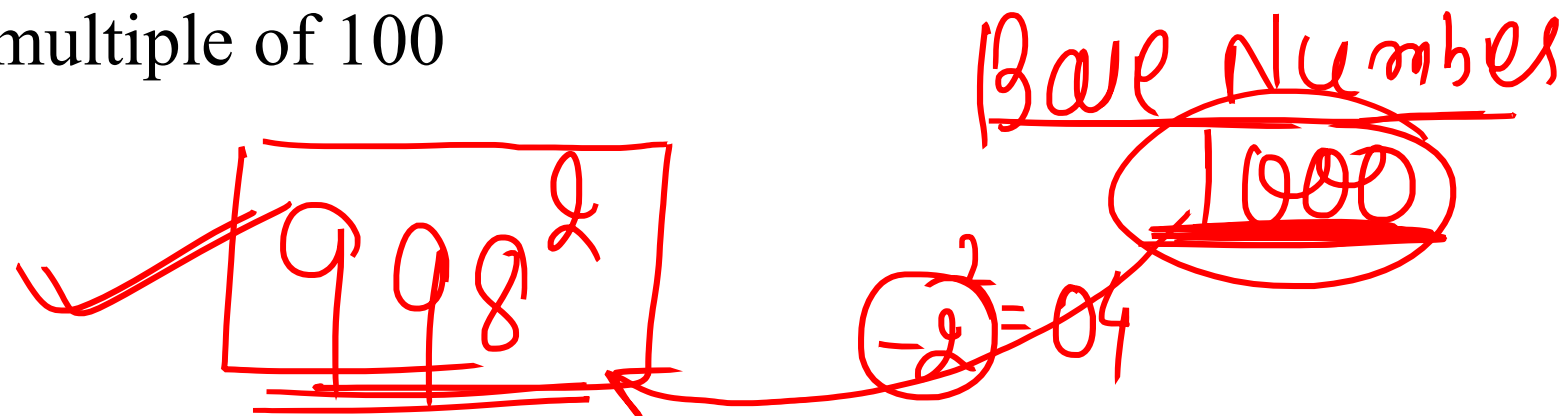
If base number is multiple of 100

Base Number

1000

$\boxed{998^2}$

$\textcircled{-2} = 04$



996004

## SQUARE OF NUMBERS FROM 100 TO 1000

If base number is multiple of 100

1: wpm to 2: wpm

practice:

1018<sup>2</sup>

1036324  
3

$$\frac{1000}{18^2} = 324$$

10 1036  
10360

# MULTIPLICATION OF NUMBER BY 5, 25, 125,.....

Reason

$$5 \rightarrow \frac{10}{2}$$

$$25 \rightarrow \frac{100}{4}$$

$$125 \rightarrow \frac{1000}{8}$$

$$\underline{125}$$

$$\begin{matrix} \downarrow & \downarrow & \downarrow \\ 2^1 & 2^2 & 2^3 \end{matrix}$$

$$\begin{array}{r} 647224000 \\ \hline 8 \end{array}$$

$$\underline{80903000}$$

$$\underline{647224 \times 125}$$

## MULTIPLICATION OF NUMBER BY 99,999,9999.....

$$\begin{array}{r} 9999 \times 3246 \\ \hline 32456754 \end{array}$$