

1. Multiplication (using base method).

Eg. ①

$$\begin{array}{r}
 91 \times 97 \\
 \downarrow \quad \downarrow \\
 (100-91) \quad (100-97) \\
 \downarrow \quad \downarrow \\
 9 \quad + \quad 3 \quad \xrightarrow{12} \\
 9 \times 3 \quad \xrightarrow{\quad} \\
 \end{array}$$

$\begin{array}{r} 88 \\ \uparrow \\ (100-12) \\ \uparrow \\ 27 \end{array}$

Ans: 8827

Eg. ②

$$\begin{array}{r}
 87 \times 84 \\
 \downarrow \quad \downarrow \\
 (100-87) \quad (100-84) \\
 \downarrow \quad \downarrow \\
 13 \quad + \quad 16 \quad \xrightarrow{\quad} \\
 13 \times 16 \quad \xrightarrow{\quad} \\
 \end{array}$$

$\begin{array}{r} 71 \\ \uparrow \\ (100-29) \\ \uparrow \\ 208 \end{array}$

Ans: 7308

$$\begin{array}{r}
 1 \ 3 \\
 1 \ 6 \\
 \hline
 2 \ 08
 \end{array}$$

Eg. ③

$$\begin{array}{r}
 73 \times 48 \\
 \downarrow \quad \downarrow \\
 (100-73) \quad (100-48) \\
 \downarrow \quad \downarrow \\
 27 \quad + \quad 52 \quad \xrightarrow{79} \\
 27 \times 52 \quad \xrightarrow{\quad} \\
 \end{array}$$

$\begin{array}{r} 21 \\ \uparrow \\ (100-79) \\ \uparrow \\ 1404 \end{array}$

Ans = 3504

$$\begin{array}{r}
 2 \ 7 \\
 5 \ 2 \\
 \hline
 1404
 \end{array}$$

Eg. ④

$$\begin{array}{r}
 976 \times 984 \\
 \downarrow \quad \downarrow \\
 (1000-976) \quad (1000-984) \\
 \downarrow \quad \downarrow \\
 24 \quad + \quad 16 \quad \xrightarrow{40} \\
 24 \times 16 \quad \xrightarrow{\quad} \\
 \end{array}$$

$\begin{array}{r} 960 \\ \uparrow \\ (1000-40) \\ \uparrow \\ 384 \end{array}$

Ans = 960384

$$\begin{array}{r}
 2 \ 4 \\
 1 \ 6 \\
 \hline
 384
 \end{array}$$

