

Cross Multiplication
Two figures by two, - three by two, - and three by three.

Two Figures by Two Figures.
Rule 18. - Multiply units by units then cross multiply tens by units and finally tens by tens adding in the carrying numbers

Ex. -
$$\begin{array}{r} \overset{\text{no. carry}}{34} \\ \underset{\text{no. carry}}{56} \\ \hline \end{array}$$

$$\begin{array}{r} \overset{\text{no. carry}}{34} \\ \underset{\text{no. carry}}{56} \\ \hline 04 \end{array}$$

$$\begin{array}{r} \overset{\text{no. carry}}{34} \\ \underset{\text{no. carry}}{56} \\ \hline 1904 \end{array}$$

$$\begin{array}{r} \overset{\text{no. carry}}{34} \\ \underset{\text{no. carry}}{56} \\ \hline 2368 \end{array}$$

Three Figures by Two.
Rule 19. - Multiply units by units, then cross multiply tens by units, next hundreds by units and tens by tens and finally, hundreds by tens adding carrying no.

Ex. -
$$\begin{array}{r} \overset{\text{no. carry}}{623} \\ \underset{\text{no. carry}}{5} \\ \hline \end{array}$$

$$\begin{array}{r} \overset{\text{no. carry}}{623} \\ \underset{\text{no. carry}}{35} \\ \hline 35 \end{array}$$

$$\begin{array}{r} \overset{\text{no. carry}}{623} \\ \underset{\text{no. carry}}{35} \\ \hline 035 \end{array}$$

$$\begin{array}{r} \overset{\text{no. carry}}{623} \\ \underset{\text{no. carry}}{35} \\ \hline 28135 \end{array}$$

Three Figures by Three
Rule 20. - Multiply units by units, then cross multiply tens by units, next cross multiply units by hundreds and tens by tens next tens by hundreds and finally hundreds by hundreds

Ex. -
$$\begin{array}{r} \overset{\text{no. carry}}{623} \\ \underset{\text{no. carry}}{473} \\ \hline \end{array}$$

$$\begin{array}{r} \overset{\text{no. carry}}{623} \\ \underset{\text{no. carry}}{473} \\ \hline 25 \end{array}$$

$$\begin{array}{r} \overset{\text{no. carry}}{623} \\ \underset{\text{no. carry}}{473} \\ \hline 623 \end{array}$$

$$\begin{array}{r} \overset{\text{no. carry}}{623} \\ \underset{\text{no. carry}}{473} \\ \hline 5623 \end{array}$$

$$\begin{array}{r} \overset{\text{no. carry}}{623} \\ \underset{\text{no. carry}}{473} \\ \hline 293623 \end{array}$$

2 2 2 3 3 3 3 4 4 4 4 5 5 5 5 5 5
7 4 3 8 6 9 5 7 2 8 5 9 6 7 3 8 4