



⑦

$$\begin{array}{r} A \quad B \\ \times \quad 6 \\ \hline B \quad B \quad B \\ \hline \end{array}$$

$B \times 6 = B$, a no whose ones digit is B

$B = 2, 4, 6, 8, 0$

$B \neq 0$

$$\begin{array}{r} A \quad 0 \\ \times \quad 6 \\ \hline 0 \quad 0 \quad 0 \\ \hline \end{array}$$

$B \neq 2$

$$\begin{array}{r} \overset{+1}{A} \quad 2 \\ \times \quad 6 \\ \hline 2 \quad 2 \quad 2 \\ \hline \end{array}$$

$B = 4$

$$\begin{array}{r} \overset{+2}{A} \quad 4 \\ \times \quad 6 \\ \hline 4 \quad 4 \quad 4 \\ \hline \end{array}$$

here

$6A = 0$
 $\Rightarrow A = 0$

here

$6A + 1 = 22$
 $6A = 21$
 $A = \frac{21}{6} = 3\frac{1}{2}$

here $6A + 2 = 44$

$\Rightarrow 6A = 42$
 $\Rightarrow A = 7$

$\therefore A = 7, B = 4$

$B \neq 6$

$$\begin{array}{r} \overset{+3}{A} \quad 6 \\ \times \quad 6 \\ \hline 6 \quad 6 \quad 6 \\ \hline \end{array}$$

here $6A + 3 = 66$

$\Rightarrow 6A = 63$

$\Rightarrow A = \frac{63}{6} = 10\frac{1}{2}$

$B \neq 8$

$$\begin{array}{r} \overset{+6}{A} \quad 8 \\ \times \quad 8 \\ \hline 8 \quad 8 \quad 8 \\ \hline \end{array}$$

here

$8A + 6 = 88$

$8A = 82$

$A = \frac{82}{8} = 10\frac{1}{2}$