



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

$B \neq 0$

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

$B \neq 2$

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

$B = 4$

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

here

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

here

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

here $6A + 2 = 44$

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

$$\therefore A = 7, B = 4$$

$B \neq 6$

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

here $6A + 3 = 66$
 $\Rightarrow 6A = 63$
 $\Rightarrow A = \frac{63}{6} = 10 \frac{1}{2}$

$B \neq 8$

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

here

$$8A + 6 = 88 \\ 8A = 82 \\ A = \frac{82}{8} = 10 \frac{1}{4}$$