

Exercise 3.4

1. Add the numbers (without carrying).

$$\begin{array}{r} \text{(a)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 4 \quad 2 \quad 5 \\ + 2 \quad 1 \quad 3 \\ \hline 6 \quad 3 \quad 8 \end{array} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 3 \quad 1 \quad 5 \\ + 2 \quad 6 \quad 4 \\ \hline 5 \quad 7 \quad 9 \end{array} \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 1 \quad 1 \quad 1 \\ + 7 \quad 6 \quad 5 \\ \hline 8 \quad 7 \quad 6 \end{array} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 2 \quad 1 \quad 2 \\ + 2 \quad 7 \quad 7 \\ \hline 4 \quad 8 \quad 9 \end{array} \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 2 \quad 3 \quad 5 \\ + 3 \quad 2 \quad 4 \\ \hline 5 \quad 5 \quad 9 \end{array} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 1 \quad 4 \quad 3 \\ + 3 \quad 4 \quad 1 \\ \hline 4 \quad 8 \quad 4 \end{array} \end{array}$$

$$\begin{array}{r} \text{(g)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 7 \quad 3 \quad 9 \\ + 1 \quad 6 \quad 0 \\ \hline 8 \quad 9 \quad 9 \end{array} \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 2 \quad 3 \quad 7 \\ + 4 \quad 5 \quad 1 \\ \hline 6 \quad 8 \quad 8 \end{array} \end{array}$$

$$\begin{array}{r} \text{(i)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 5 \quad 3 \quad 1 \\ + 2 \quad 0 \quad 4 \\ \hline 7 \quad 3 \quad 5 \end{array} \end{array}$$

2. Add the numbers (without carrying).

$$\begin{array}{r} \text{(a)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 1 \quad 1 \quad 4 \\ 2 \quad 0 \quad 2 \\ + 4 \quad 7 \quad 3 \\ \hline 7 \quad 8 \quad 9 \end{array} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 2 \quad 3 \quad 5 \\ 3 \quad 2 \quad 1 \\ + 1 \quad 3 \quad 3 \\ \hline 6 \quad 8 \quad 9 \end{array} \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 7 \quad 2 \quad 1 \\ 1 \quad 2 \quad 3 \\ + 1 \quad 5 \quad 4 \\ \hline 9 \quad 9 \quad 8 \end{array} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 5 \quad 2 \quad 1 \\ 0 \quad 3 \quad 7 \\ + 3 \quad 4 \quad 1 \\ \hline 8 \quad 9 \quad 9 \end{array} \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 1 \quad 1 \quad 1 \\ 2 \quad 2 \quad 2 \\ + 6 \quad 5 \quad 4 \\ \hline 9 \quad 8 \quad 7 \end{array} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 2 \quad 3 \quad 4 \\ 4 \quad 2 \quad 3 \\ + 3 \quad 4 \quad 2 \\ \hline 9 \quad 9 \quad 9 \end{array} \end{array}$$

$$\begin{array}{r}
 \text{(g)} \quad \begin{array}{rcc}
 \text{H} & \text{T} & \text{O} \\
 2 & 0 & 5 \\
 1 & 1 & 4 \\
 + 3 & 6 & 0 \\
 \hline
 6 & 7 & 9
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad \begin{array}{rcc}
 \text{H} & \text{T} & \text{O} \\
 1 & 4 & 0 \\
 8 & 3 & 5 \\
 + 0 & 2 & 0 \\
 \hline
 9 & 9 & 5
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(i)} \quad \begin{array}{rcc}
 \text{H} & \text{T} & \text{O} \\
 1 & 6 & 1 \\
 6 & 1 & 0 \\
 + 2 & 0 & 8 \\
 \hline
 9 & 7 & 9
 \end{array}
 \end{array}$$

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