

MATH HELP

BASIC OPERATIONS



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CHAPTER 1: ADDITION +

Without carry over

$$\begin{array}{r}
 \text{T} \quad \text{U} \\
 4 \quad 2 \\
 + 1 \quad 5 \\
 \hline
 5 \quad 7
 \end{array}$$

1. First add all the **units** below each other, then all the **tens**. ALWAYS work from behind!

$$\begin{array}{r}
 \text{T} \quad \text{U} \\
 4 \quad 2 \\
 + 1 \quad 5 \\
 \hline
 5 \quad 7
 \end{array}$$

$$\begin{array}{r}
 \text{H} \quad \text{T} \quad \text{U} \\
 3 \quad 2 \quad 1 \\
 + 1 \quad 2 \quad 3 \\
 \hline
 4 \quad 4 \quad 4
 \end{array}$$

3. First add all the **units** below each other, then all the **tens**, then all the **hundreds**. ALWAYS work from behind!

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

$$\begin{array}{r}
 \text{T} \quad \text{H} \quad \text{T} \quad \text{U} \\
 1 \quad 8 \quad 5 \quad 6 \\
 + 8 \quad 1 \quad 1 \quad 2 \\
 \hline
 9 \quad 9 \quad 6 \quad 8
 \end{array}$$

$$\begin{array}{r}
 \text{T} \quad \text{H} \quad \text{T} \quad \text{U} \\
 7 \quad 8 \quad 9 \quad 0 \\
 + 2 \quad 1 \quad 0 \quad 8 \\
 \hline
 9 \quad 9 \quad 9 \quad 8
 \end{array}$$

$$\begin{array}{r}
 \text{TT} \quad \text{T} \quad \text{H} \quad \text{T} \quad \text{U} \\
 1 \quad 8 \quad 5 \quad 6 \quad 5 \\
 + 5 \quad 1 \quad 4 \quad 3 \quad 2 \\
 \hline
 6 \quad 9 \quad 9 \quad 9 \quad 7
 \end{array}$$

$$\begin{array}{r}
 \text{TT} \quad \text{T} \quad \text{H} \quad \text{T} \quad \text{U} \\
 8 \quad 9 \quad 7 \quad 5 \quad 6 \\
 + 1 \quad 0 \quad 1 \quad 0 \quad 1 \\
 \hline
 9 \quad 9 \quad 8 \quad 5 \quad 6
 \end{array}$$

$$\begin{array}{r}
 9. \quad \text{HT} \quad \text{TT} \quad \text{T} \quad \text{H} \quad \text{T} \quad \text{U} \\
 \quad \quad 8 \quad 8 \quad 7 \quad 8 \quad 9 \quad 6 \\
 + \quad 1 \quad 1 \quad 2 \quad 1 \quad 0 \quad 2 \\
 \hline
 \quad \quad 9 \quad 9 \quad 9 \quad 9 \quad 9 \quad 8 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 10. \quad \text{HT} \quad \text{TT} \quad \text{T} \quad \text{H} \quad \text{T} \quad \text{U} \\
 \quad \quad 6 \quad 8 \quad 7 \quad 4 \quad 5 \quad 9 \\
 + \quad 3 \quad 1 \quad 0 \quad 5 \quad 1 \quad 0 \\
 \hline
 \quad \quad 9 \quad 9 \quad 7 \quad 9 \quad 6 \quad 9 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 11. \quad \text{M} \quad \text{HT} \quad \text{TT} \quad \text{T} \quad \text{H} \quad \text{T} \quad \text{U} \\
 \quad \quad 1 \quad 9 \quad 5 \quad 6 \quad 8 \quad 7 \quad 5 \\
 + \quad 8 \quad 0 \quad 1 \quad 1 \quad 1 \quad 2 \quad 2 \\
 \hline
 \quad \quad 9 \quad 9 \quad 6 \quad 7 \quad 9 \quad 9 \quad 7 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 12. \quad \text{HT} \quad \text{TT} \quad \text{T} \quad \text{H} \quad \text{T} \quad \text{U} \quad \text{HT} \\
 \quad \quad 1 \quad 5 \quad 8 \quad 6 \quad 5 \quad 8 \quad 9 \\
 + \quad 6 \quad 3 \quad 1 \quad 3 \quad 4 \quad 1 \quad 0 \\
 \hline
 \quad \quad 7 \quad 8 \quad 9 \quad 9 \quad 9 \quad 9 \quad 9 \\
 \hline
 \end{array}$$

Exercise 1.1

$$\begin{array}{r}
 1. \quad \text{T} \quad \text{U} \\
 \quad \quad 1 \quad 2 \\
 + \quad 5 \quad 6 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 2. \quad \text{T} \quad \text{U} \\
 \quad \quad 3 \quad 4 \\
 + \quad 7 \quad 1 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 3. \quad \text{T} \quad \text{U} \\
 \quad \quad 5 \quad 6 \\
 + \quad 3 \quad 2 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 4. \quad \text{T} \quad \text{U} \\
 \quad \quad 7 \quad 8 \\
 + \quad 1 \quad 1 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 5. \quad \text{T} \quad \text{U} \\
 \quad \quad 1 \quad 3 \\
 + \quad 2 \quad 4 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 6. \quad \text{T} \quad \text{U} \\
 \quad \quad 5 \quad 7 \\
 + \quad 2 \quad 2 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r} 7. \quad \text{H} \quad \text{T} \quad \text{U} \\ \quad 5 \quad 4 \quad 3 \\ + \quad 3 \quad 4 \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad \text{H} \quad \text{T} \quad \text{U} \\ \quad 1 \quad 2 \quad 3 \\ + \quad 3 \quad 2 \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad \text{H} \quad \text{T} \quad \text{U} \\ \quad 6 \quad 5 \quad 1 \\ + \quad 1 \quad 4 \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad \text{T} \quad \text{H} \quad \text{T} \quad \text{U} \\ \quad 1 \quad 3 \quad 5 \quad 7 \\ + \quad 7 \quad 6 \quad 4 \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad \text{T} \quad \text{H} \quad \text{T} \quad \text{U} \\ \quad 8 \quad 1 \quad 1 \quad 2 \\ + \quad 2 \quad 5 \quad 5 \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 17. \quad \text{T} \quad \text{H} \quad \text{T} \quad \text{U} \\ \quad 9 \quad 0 \quad 6 \quad 8 \\ + \quad 1 \quad 8 \quad 3 \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad \text{H} \quad \text{T} \quad \text{U} \\ \quad 2 \quad 1 \quad 0 \\ + \quad 1 \quad 2 \quad 0 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad \text{H} \quad \text{T} \quad \text{U} \\ \quad 3 \quad 1 \quad 5 \\ + \quad 3 \quad 1 \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad \text{H} \quad \text{T} \quad \text{U} \\ \quad 5 \quad 9 \quad 8 \\ + \quad 4 \quad 0 \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad \text{T} \quad \text{H} \quad \text{T} \quad \text{U} \\ \quad 7 \quad 5 \quad 3 \quad 1 \\ + \quad 2 \quad 3 \quad 3 \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad \text{T} \quad \text{H} \quad \text{T} \quad \text{U} \\ \quad 2 \quad 1 \quad 0 \quad 8 \\ + \quad 6 \quad 5 \quad 5 \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad \text{T} \quad \text{H} \quad \text{T} \quad \text{U} \\ \quad 1 \quad 2 \quad 3 \quad 4 \\ + \quad 2 \quad 1 \quad 0 \quad 2 \\ \hline \end{array}$$



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