

Tutorial: Adding Three-Digit Numbers with Carrying

Problem Statement

What is $247 + 158$?

Step-by-Step Solution

We will perform the addition using the column method and carry over values where necessary.

Step 1: **Write the numbers in column format.**

$$\begin{array}{r} 247 \\ +158 \\ \hline \end{array}$$

Step 2: **Add the ones digits:** $7 + 8 = 15$.

- Write down the **5** in the ones place.
- Carry over the **1** to the tens column.

Step 3: **Add the tens digits:** $4 + 5 = 9$.

- Add the carried over 1: $9 + 1 = 10$.
- Write down the **0** in the tens place and carry over **1** to the hundreds.

Step 4: **Add the hundreds digits:** $2 + 1 = 3$.

- Add the carried over 1: $3 + 1 = 4$.
- Write **4** in the hundreds place.

Step 5: **Write the final result:**

$$\begin{array}{r} 247 \\ +158 \\ \hline 405 \end{array}$$

Conclusion

By applying multi-digit addition with carrying, we find that $247 + 158 = 405$.