

# Addition Method

**1**

$$\begin{array}{r} 34 \\ + 57 \\ \hline \end{array}$$

Place the numbers one on top of the other, lining up the tens and ones.

**2**

$$\begin{array}{r} 34 \\ + 57 \\ \hline 1 \end{array}$$

Add the ones and write the answer under the ones.

**3**

$$\begin{array}{r} 34 \\ + 57 \\ \hline 1 \end{array}$$

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Regroup any tens to the tens column.

**4**

$$\begin{array}{r} 34 \\ + 57 \\ \hline 91 \\ 1 \end{array}$$

Add the tens including any tens you've regrouped.

**5**



$$\begin{array}{r} 34 \\ + 57 \\ \hline 91 \end{array}$$

Check your answer.



# Subtraction Method

**1**

$$\begin{array}{r} 453 \\ - 348 \\ \hline \end{array}$$

Place the numbers one on top of the other, lining up the hundreds, tens and ones.

**4**

$$\begin{array}{r} 4\cancel{5}^4 3 \\ - 348 \\ \hline 05 \end{array}$$

Subtract the tens:  $40 - 40 = 0$

**2**

$$\begin{array}{r} 453 \\ - 348 \\ \hline \end{array}$$

Subtract the ones (note that the answer to  $3 - 8$  is negative).

**5**

$$\begin{array}{r} 4\cancel{5}^4 3 \\ - 348 \\ \hline 105 \end{array}$$

Subtract the hundreds:  $400 - 300 = 100$

**3**

$$\begin{array}{r} 4\cancel{5}^4 3 \\ - 348 \\ \hline 5 \end{array}$$

Exchange a 10 from the 50 to give 13 ones. Subtract the ones:  $13 - 8 = 5$

**6**

$$\begin{array}{r} 4\cancel{5}^4 3 \\ - 348 \\ \hline 105 \end{array}$$

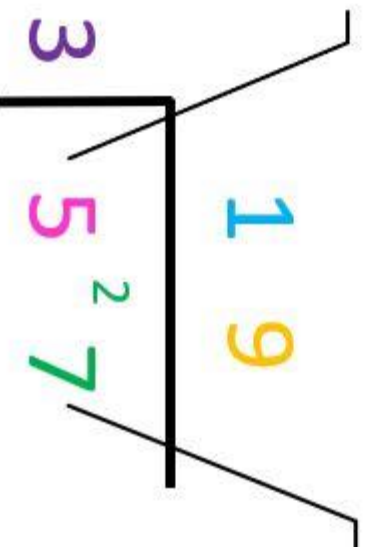
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Check your answer.

## Written Division Method (Bus stop)

$$57 \div 3 = 19$$

How many times does **3** go into **5**?  
It goes into **5 once** and has a remainder of **2**.



How many times does **3** go into **27**?  
It goes into **27 nine** times and has no remainder.

## Expanded Multiplication Method

- Line up the ones and the tens.
- Multiply the ones.
- Multiply the tens.
- Add the totals together.

$$\begin{array}{r} 42 \\ \times 6 \\ \hline 252 \end{array}$$

$(2 \times 6)$   
 $(40 \times 6)$

## Short Multiplication Method

$$\begin{array}{r} 237 \\ \times 4 \\ \hline 948 \\ 1 \phantom{00} \end{array}$$

1. Start with  $4 \times 7$ , which is 28, so write the 8 and carry the 2 to the tens column.
2.  $4 \times 3 = 12$ , but remember to add the carried 2 to get 14. Write the 4 and carry the 1 to the hundreds column.
3.  $4 \times 2 = 8$ , and we add the carried 1 to get 9.

Therefore:

$$237 \times 4 = 948$$

$$42 \times 6 = 252$$