To solve long division problems all you have to remember is 5 simple steps:

| 1 | 2 | 3 | 4 | 5 |
| :---: | :---: | :---: | :---: | :---: |
| Determine | Multiply | Subtract | Compare | Bring Down |
|  |  |  |  |  |
| Lets look at those steps in depth below to solve the problem: |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## 1) Determine

A. 4 times ___ $=$ is as close as you can get to 9 WITHOUT going over.
B. $4 \times \underline{0}=0$
(0 isn't more than 9) $\checkmark$
$4 \times \underline{1}=4$
$(4$ isn't more than 9$) \checkmark$
$4 \times \underline{2}=8$
(8 isn't more than 9) $\checkmark$
$4 \times \underline{3}=12 \quad$ (12 IS more than 9) $x$
C. We have to use 2 , since $4 \times 2$ is as close to 9 as we can get without going over.
D. Place the 2 over the 9 .

2) Multiply
A. Multiply $2 \times 4$
B. $2 \times 4=8$
C. Place the 8 directly under the 9 .
3) Subtract
A. Subtract 9-8
B. $9-8=1$
C. Place the 1 in the appropriate spot.

## 4) Compare

A. Compare your answer to the divisor (4).
B. Is 1 less than 4 ? Yes. $1<4$. Move on to step 5.
C. If not, double check the previous steps to find your mistake.

## 5) Bring Down

A. Now we bring down our next number.
B. That turns our 1 into 15 .
C. Start over from step 1 (at the top)


## 3) Subtract

A. Subtract 15-12
B. $15-12=3$
C. Place the 3 in the appropriate spot.


## 4) Compare

A. Compare your answer to the divisor (4).
B. Is 3 less than 4 ?

Yes. $3<4$. Move on to step 5.
C. If not, double check the previous steps to find your mistake.

C. We have to use 3 , since $4 \times 3$ is as close to 15 as we can get without going over.
D. Place the 3 over the 5 .

## 2) Multiply

A. Multiply $3 \times 4$
B. $3 \times 4=12$
C. Place the 12 directly under the 15 .


## Things to Remember

- Make sure you have a number over each of the digits (even if the number is a 0 ).
- Your remainder MUST be less than your divisor.
- If you get a remainder of 0 . You don't need to even put the remainder.

