Double Digit Addition Strategies With Regrouping!

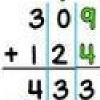




63 Adds up to 9, everything is + 2 3 6 fine!

Regrouping

10 or more, take the extra next door!



Take your number sentence that is horizontally written and write it vertically like seen on this slide.

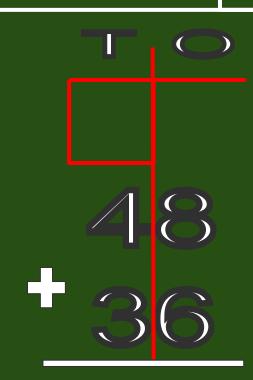




48 + 36 =

Now, if it helps you, draw your place value chart over your algorithm.

Draw a box in the tens place in case you have to regroup.



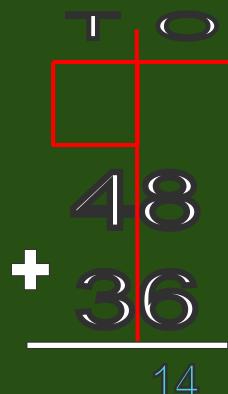
Step 3

48 + 36 =

START IN THE ONES PLACE

Add 8 + 6, you should get 14.

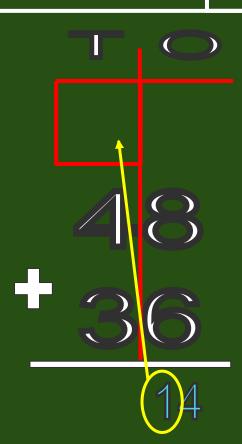
A "siren" should go off because we have "10 or more" so we need to take the ten next door!



Step 4

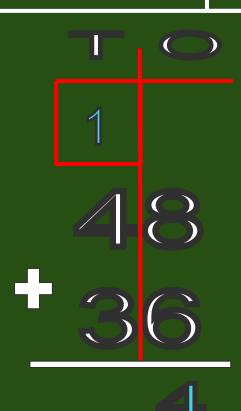
The 1 in 14 is in the Tens place!

Move the one into the tens place (in that box you created).



Step 5

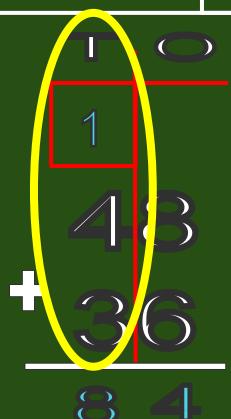
Now your problem should look similar to this!



Step 6

Now you are going to add up <u>ALL</u>
OF THE TENS! (DO NOT
FORGET THE 1 THAT YOU
CARRIED OVER!)

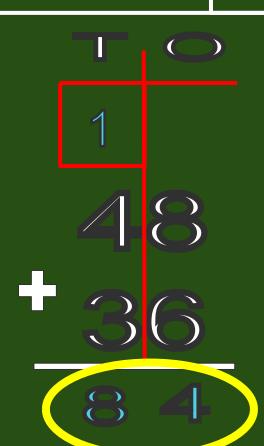
You should get 8!



48 + 36 =

Now combine your tens and ones!

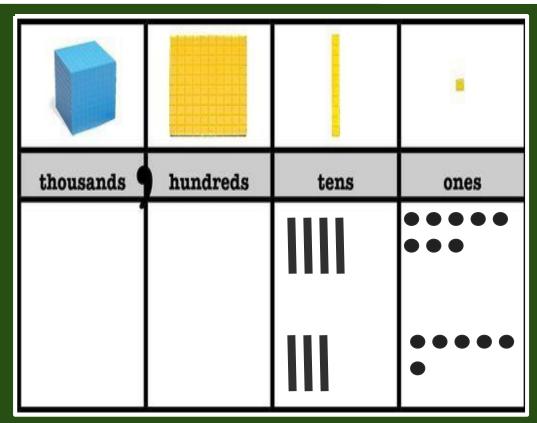
The solution to your problem should be 84!



Addition using Base 10 Blocks

48 + 36 =

Draw base 10 blocks of **both** numbers. It works well when you use a **place**value chart to help you organize the numbers.

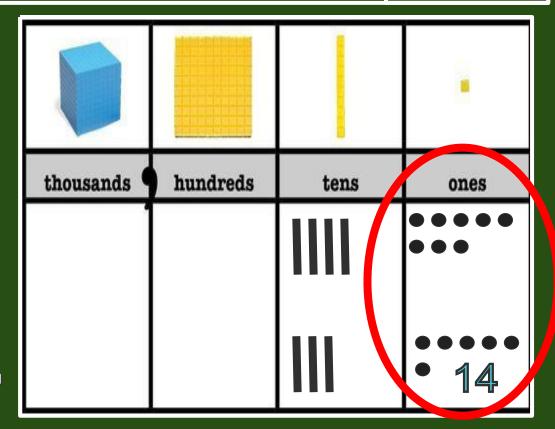




START IN THE **ONES** PLACE!

Add up all of the ones.

A "siren" should go off because we have "10 or more" so we need to take the ten next door!



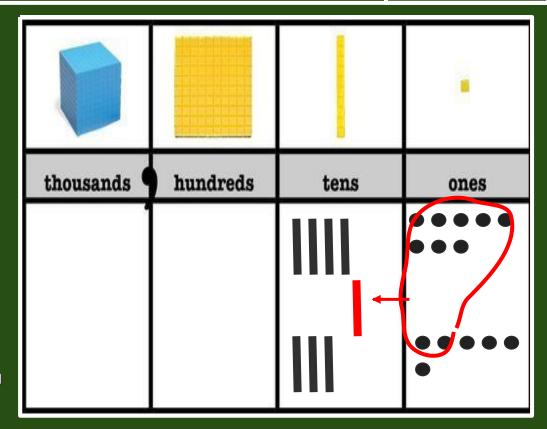


48 + 36 =

Put together 10 ones

Form them into a ten stick

Move them on "next door" to the tens place.

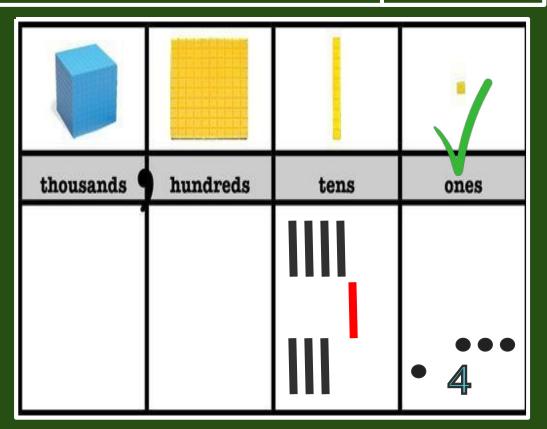




Now count how many ones you have left over.

You should have 4!

Now you are done working in the ones place, you can check it off and move onto the tens.





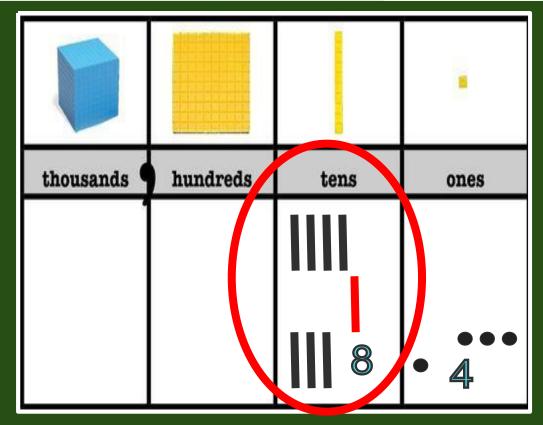
48 + 36 =

Next, add up ALL of the TENS.

Do not forget to add the one that you regrouped from the ones place!

You should of got 8 tens!

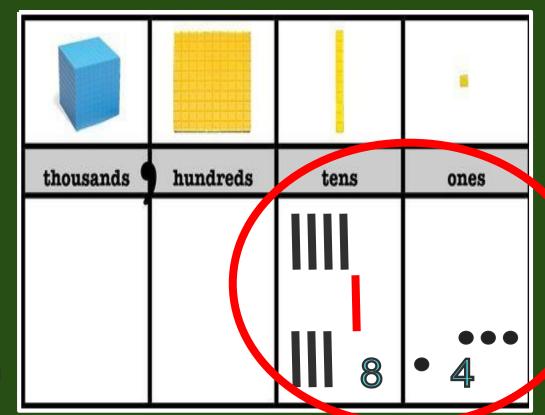
Since the answer is below nine, everything is fine!





Now put the tens and ones together!

You should get 84!





Step 1

Take your number sentence that is horizontally written and write it vertically like seen on this slide.





Step 2

Next you are going to take your numbers and EXPAND THEM OUT into tens and ones!

$$48 \rightarrow 40 + 8$$
 $+36 \rightarrow_{+} 30 + 6$

Step 3

Combine your ones together!

$$48 \rightarrow 40 + 8 + 36 \rightarrow 40 + 6$$

Step 4

Next, combine your tens together!

$$48 \rightarrow 40 + 8 + 36 \rightarrow 40 + 6$$
 $70 + 14$

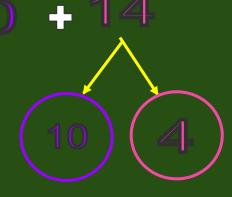
Step 5

$$48 + 36 =$$

You should notice that your ones now are more than "9."

So you are going to expand 14 out to tens and ones.

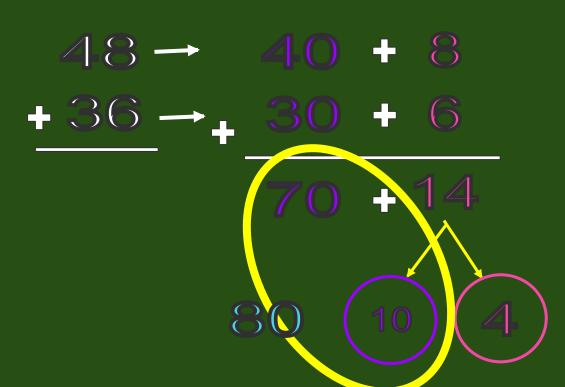
$$48 \rightarrow 40 + 8$$
 $+36 \rightarrow_{+} 30 + 6$



Step 6

Now combine the 10 from the 14 with the 70.

You should get 80.



Step 7

$$48 + 36 =$$

Now you have 80 + 4.

Combine the tens and the ones to get 84!

$$48 \rightarrow 40 + 8$$
 $+36 \rightarrow +30 + 6$
 $70 + 14$

Step 1

Take your number sentence that is horizontally written and write it vertically like seen on this slide.





Step 2

Next you are going to take your numbers and EXPAND THEM OUT into tens and ones!

$$48 \rightarrow 40 + 8$$
 $+36 \rightarrow_{+} 30 + 6$

Step 3

Combine your ones together!

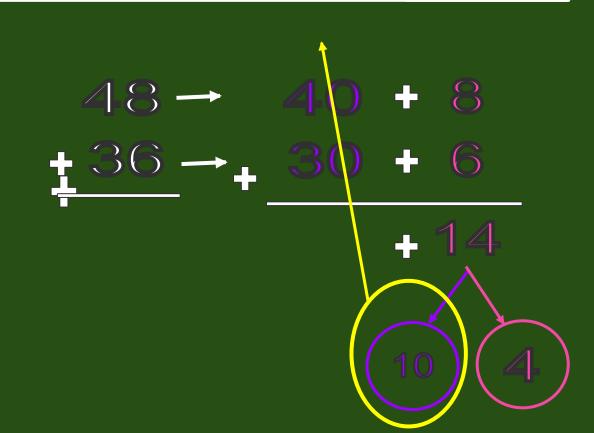
$$48 \rightarrow 40 + 8 + 36 \rightarrow 50 + 6$$

You should see that you have more than 9 in your tens!

Expand 14

Take the tens place of 14 and move that ten to be with the other tens!

You should have 4 left over.



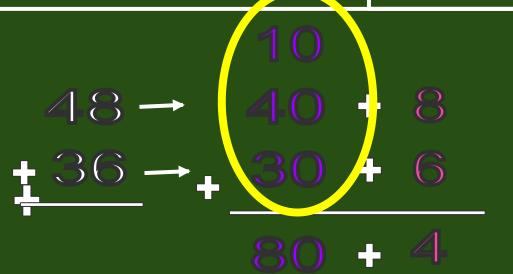
Step 5

Now your problem should look like this.

Step 6

Now combine the tens.

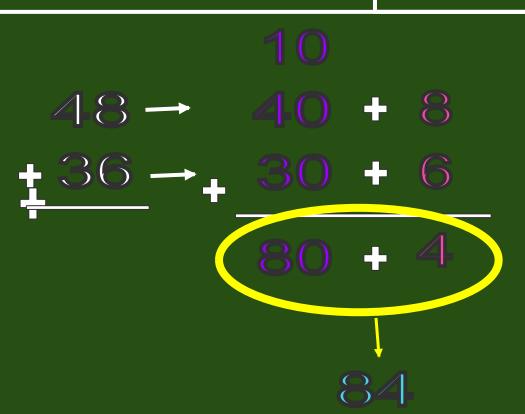
Be sure not to forget the ten that you added!



Step 7

Now combine the final tens with the final ones.

You should get 84!



Step 1

Draw an Open Number Line

Step 2

Put the first number at the beginning of line.



Step 3

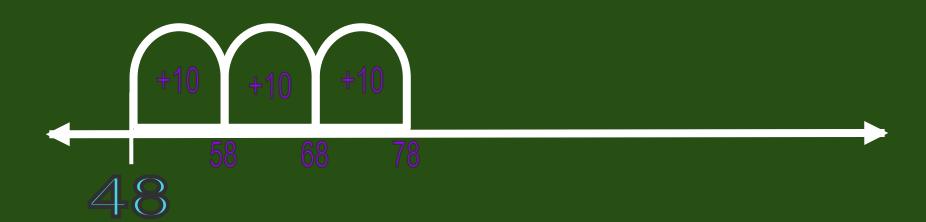
$$36 = 30 + 6$$



Step 4

Add 30 by each 10 as seen below

$$36 = 30 + 6$$



Step 5

Now add the 6 by 1's as seen below.

You should get a solution of 84!

$$36 = 30 - 6$$

