

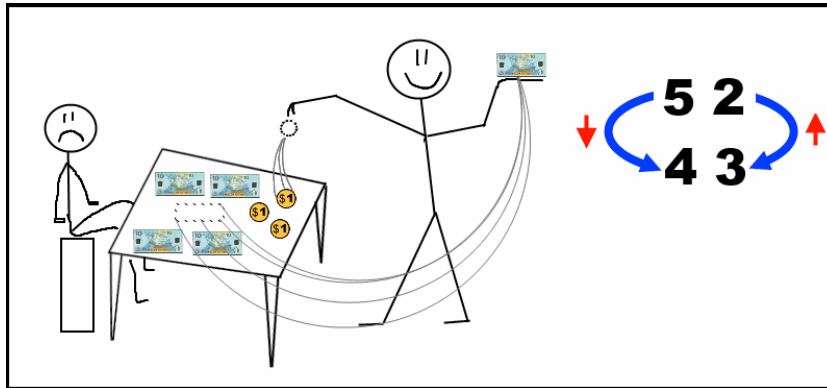
Seeing it Another Way

We have seen we can take away \$9 from \$52

by:

Taking away ONE \$10 note

Giving back ONE \$1 coin



There is another way of seeing how this works that I would like to show you.

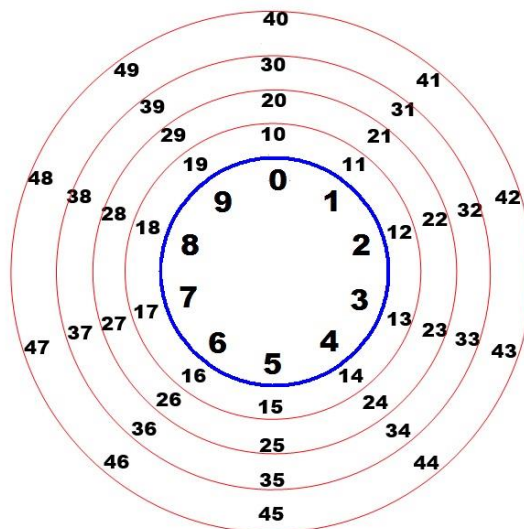
If it helps, good.

If it doesn't, don't worry about it.

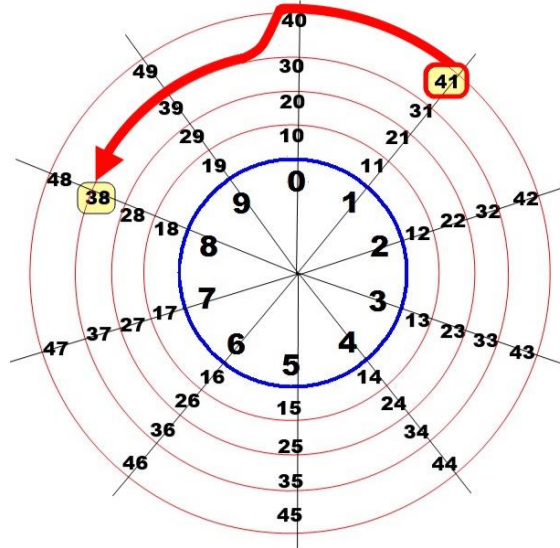
You already understand it as above.

But on the other hand you might like it...

Imagine if we counted around a 10-circle and kept counting way past 10. We could loop the numbers around and around like this:



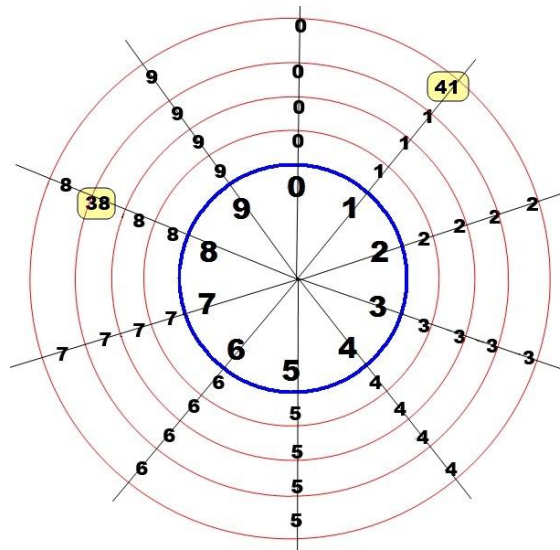
Lets look at
a subtraction
for example:
 $41 - 3 = 38$



$$41 - 3 = 38$$

Get rid of the
tens. Ignore them.
Abstract from them.

Notice how the units
form a gigantic
10-circle.

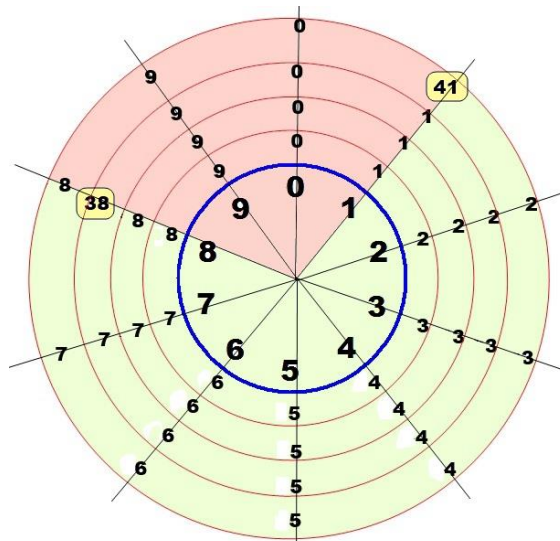


$$41 - 3 = 38$$

Add color between
41 and 38.

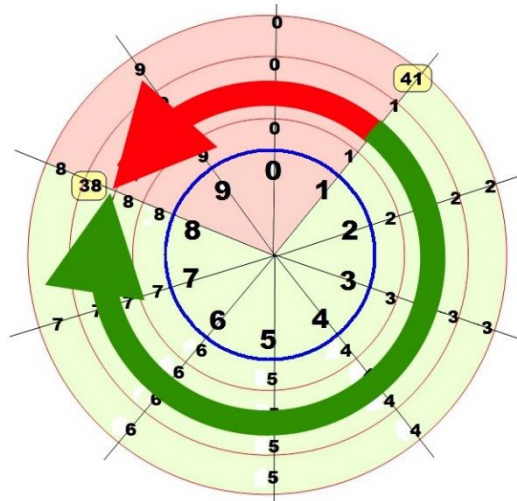
Notice that means
add TWO
colors.

There are TWO areas
between 41 and 38.



$$41 - 3 = 38$$

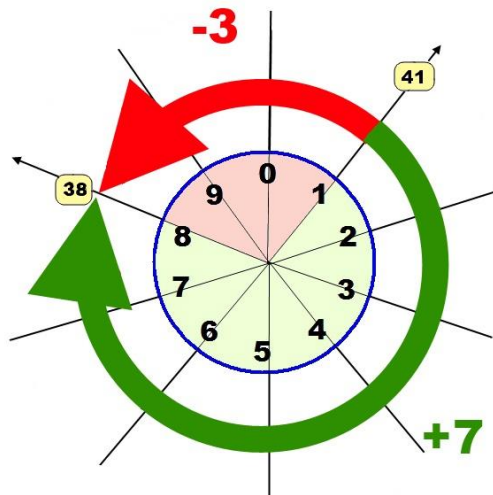
The two areas or paths are highlighted in red and green



$$41 - 3 = 38$$

$$41 + 7 = 38$$

Just focusing on the single 10-circle the result is the same.



$$41 - 3 = 38$$

$$41 + 7 = 38$$

Summary

In Circlemaths there are always TWO paths to get to an answer.
As in maths,
as in life.