

Beyond 100 Challenge



Choose two different single digit numbers that have a total of 10

Use them as digits to make two 2-digit numbers.

Add them, choosing the most efficient method.

For example: Colin chose 1 and 9 so he made 91 and 19

He then calculated $91 + 19$ by adding 20 then subtracting 1

Repeat this for all the possible pairs of different single digit numbers that have a total of 10

What do you notice?

Now repeat the challenge but start with two single digit numbers with a total of 11

What do you notice?

What would happen with other totals?



Beyond 100 Challenge Answers



$$91 + 19 = 110$$

$$82 + 28 = 110$$

$$73 + 37 = 110$$

$$64 + 46 = 110$$

Totals make tens ones and ten tens so that is always eleven tens.
With regrouping that is one hundred and one ten, or 110

$$92 + 29 = 121$$

$$83 + 38 = 121$$

$$74 + 47 = 121$$

$$65 + 56 = 121$$

Totals make eleven ones and eleven tens so with regrouping that is always
twelve tens and one one
or one hundred and two 10s and one 1
which is 121