Addition Strategies

Place Value
(Break it Down)

583 + 147

500 + 100 = 600
80 + 40 = 120
3 + 7 = 10

600 + 120 + 10 = 730

In this strategy, you break the number apart by place value *(known as expanded form)* and add the hundreds together, then the tens, and finally the ones.

Compensation
(Give & Take to make a Friendly Number)

583 + 147
-3 +3

580 + 150 = 730

In this strategy, take a "3" away and add it to the other side. This makes both numbers "friendly". A friendly number is usually a multiple of 10..

---

583 + 147

583 - 3 = 580
580 + 100 = 680
680 + 40 = 720
720 + 7 = 727
727 + 3 = 730

Sometimes it is easier if you add/take away the the other number later to keep it balanced..

Addition Strategies

Traditional Algorithm (Stack & Regroup)

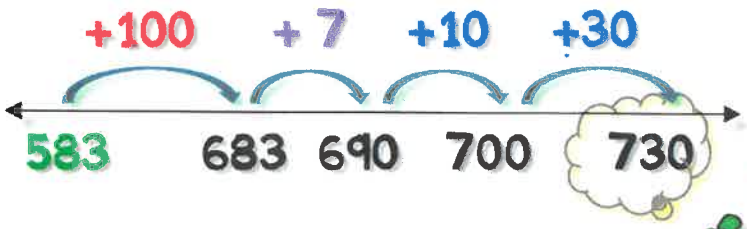
$$\begin{array}{r} {\scriptstyle 1\ 1} \\ 583 \\ +\ 147 \\ \hline 730 \end{array}$$

The "0" is a place holder. The "1" must be added to the tens place.

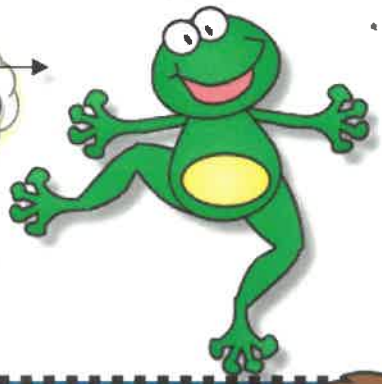
This strategy begins on the far right (*one's place*) and add the numbers together. 3+7 makes 10. If the two numbers equal 10 or more, the group of "ten" must be added to the tens place.

Open Number Line

583 + 147



Number lines are a visual way to add numbers by place value.



I ♥ Math I ♥ Math I ♥ Math I ♥ Math

Addition Strategies

Expanded Form
(Stretch it out by place value)

583 + 147

500 + 80 + 3
100 + 40 + 7
600 + 120 + 10 = 730

This strategy is similar to the Place Value strategy because it breaks down the problem into easier to manage numbers.

Partial Sums
also known as Front End

583 + 147

600 + 120 + 10 = 730

```
 583
+147
 600
 120
+ 10
 730
```

In this strategy, you start from the left to the right and then you add the partial products together

I ♥ Math I ♥ Math I ♥ Math I ♥ Math

Addition Strategies

Keeping a Running Total
similar to Front End

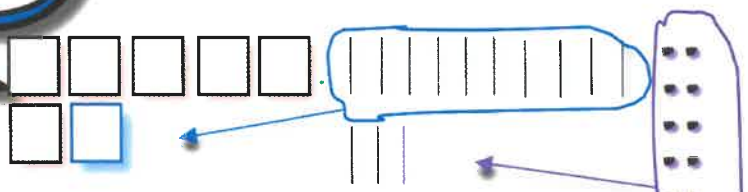
583 + 147

600
680
720
723
730

This strategy is similar to the Front End because you'll add from left to right. Just keep a running total in your mind as you add each number.

Base 10
Place Value Model

583 + 147



700 + 30 + 0 = 730

This strategy uses a visual to solve problems. This represents the manipulatives we can use in class. The □ = 100, the | = 10, and • = 1. Once you have 10, you "regroup" to add one to the next place.

I ♥ Math I ♥ Math I ♥ Math I ♥ Math