About the Mathematics: Multi-Digit Addition & Subtraction

Speaking in values when working with numbers

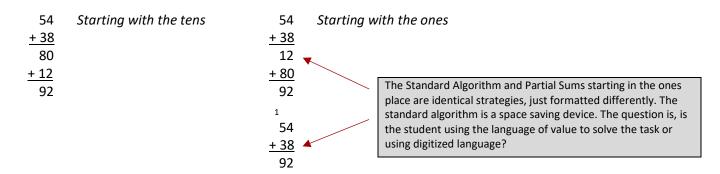
Combining Like Units/Partial Sums/Tens & Ones Strategy

Addition

Horizontal format:

54 + 38	50 + 30 = 80
	4 + 8 = 12
	80 + 12 = 92

Vertical format:



Combining Like Units/Partial Differences Strategy Subtraction

Horizontal format:

54 - 38 50 - 30 = 20 4 - 8 = -4 20 - 4 = 16

Vertical format:



When students say, "you can't take 8 from 4," my response is, "Who says?" This leads to two possible conversations depending upon the knowledge of the student. 1) "You'll get a negative number!" Thus 4 – 8 can be expressed by students in two ways. "Four minus eight is negative four." Or 2) Student: "I don't have enough." To which I reply, "What are you short?" "Four!" In which case I direct the student to write – 4 underneath the 20.