Subtraction Strategies for Grade 3 and Up



This is also known as the Jump Strategy or Adding Up. Students may decide to count by the highest place value first or start with ones or may be comfortable with jumping in chunks (186+4+40+3). More information can be found on page 175 of "Number Talks: Whole Number Computation" by Sherry Parrish. Number Talks utilizing this strategy can be found starting on page 207.

This strategy is not the most efficient strategy for students, but they may feel most confident with it and need more exposure to other strategies. Students with a stronger number sense may be able to subtract larger chunks of a place value, such as 233-100-30-50-6=47. This strategy is like the Removal strategy. It can also be shown with Base Ten blocks. More information can be found on page 176 and 206 of "Number Talks: Whole Number Computation" by Sherry Parrish. Number Talks utilizing this strategy can be found starting on page 212.

This strategy is not the most efficient strategy for students, but they may feel most confident with it and need more exposure to other strategies. This is like the Counting Back strategy. More information can be found on page 176 of "Number Talks: Whole Number Computation" by Sherry Parrish. Number Talks utilizing this strategy can be found starting on page 212.

This strategy uses place value. If it is an equation that involves regrouping negative numbers will be used. See second example. More information can be found on page 177 of "Number Talks: Whole Number Computation" by Sherry Parrish. Number Talks utilizing this strategy can be found starting on page 217.

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This is a second example of the Decomposing strategy. The equation involves regrouping so a negative number will be used. This strategy will be used by students who have developed a strong number sense. More information can be found on page 177 of "Number Talks: Whole Number Computation" by Sherry Parrish. Number Talks utilizing this strategy can be found starting on page 217.

In this example, it was best to make 186 the friendly number of 200 so subtraction could be done without regrouping. More information can be found on page 178 of "Number Talks: Whole Number Computation" by Sherry Parrish. Number Talks utilizing this strategy can be found starting on page 226.

Students are adjusting one number of the equation to make an easier problem. If the minuend (top or first number) is used, then the answer is adjusted using the opposite operation. This can be confusing to students so working with the concept with small numbers is helpful. More information can be found on page 179 of "Number Talks: Whole Number Computation" by Sherry Parrish. Number Talks utilizing this strategy can be found starting on page 221.

Students are adjusting one number of the equation to make an easier problem. If the subtrahend (bottom or second number) is used, then the answer is adjusted using the same operation. This can be confusing to students so working with the concept with small numbers is helpful. More information can be found on page 179 of "Number Talks: Whole Number Computation" by Sherry Parrish. Number Talks utilizing this strategy can be found starting on page 221





"I start at 186 and count up in place value chunks to get to 233. I can use an open number line to help me and show my work."





"I start at 233 and count back by the place values of 186."



"I start at 233 and remove parts of the number by place value. I can use base-ten blocks to help me and show my work."



"I write each number in expanded form and then subtract each of the place values to create a subtraction equation."



"I write each number in expanded form and then subtract each of the place values to create a subtraction equation."

Subtraction Strategy Keeping a Constant Distance 233-186=



"I changed one of the numbers to make it a friendly number. I do the <u>same operation</u> to the other number in the equation."



"I change one of the numbers to make it an easier number to work with. I do the opposite operation to the answer of my new equation to get the answer."



"I change one of the numbers to make it an easier number to work with. I do the opposite operation to the answer of my new equation to get the answer."