



What do I need to know as a teacher in order to be able to teach the concept(s)?

+Vocabulary

Addend

- The numbers being added together in an addition question.

Associative Property

- You can add numbers regardless of how the numbers are grouped using parenthesis. Ex. $(3 + 5) + 2$ is the same as $3 + (5 + 2)$. It's used when dealing with 3 or more numbers

Commutative Property

- When adding, the order of the addends does not matter. The result is the same. Ex. $3 + 5$ is the same as $5 + 3$.

Compensation

- A strategy used in mental math in which you change one addend to a multiple of ten and then adjust the other addend to keep the balance. Ex. $37 + 49$ is the same as $40 + 46$. You added 3 to 37 to make it a multiple of 10, therefore you must remove that extra 3 from the 49.

Constant Difference

- Adding or subtracting the same number to both the subtrahend and the minuend in a subtraction problem does not change the answer. $6 - 3 = 3$; $7 - 4 = 3$; $8 - 5 = 3$

Decomposing Numbers

- Breaking up a number into place value pieces ($349 \Rightarrow 300 + 40 + 9$)

Difference

- The result of subtracting two numbers.

Friendly Numbers

- A friendly number is simply a number that is easy to work with. This normally refers to multiples of 10.

Inverse Operation

- "The operation which is 'opposite' mathematically to that being considered. Thus, subtraction is the inverse of addition and vice versa." [Source](#)

Minuend

- The first number in a subtraction. The number from which another number (the Subtrahend) is to be subtracted. Ex. $20 - 5$ (20 is the minuend)

Partitioning

- Breaking up a number into more usable pieces ($349 + 123 \Rightarrow 349 + 100 + 23$)

Subtrahend

- The number subtracted from the minuend Ex. $20 - 5$ (5 is the subtrahend)

Sum

- The result of adding two or more numbers together

Further Vocabulary Resources:

- Math is Fun - Illustrated Mathematics Dictionary – Mathematics Vocabulary & Illustrations <https://www.mathsisfun.com/definitions/index.html>
- Mathematics Glossary - LearnAlberta.ca
 - Example Link - Associative Property <http://www.learnalberta.ca/content/memg/division04/associative%20property/index.html>

