THE IMPORTANCE OF MATH FLUENCY

ADDITION AND SUBTRACTION

Numbers are Flexible

You can break numbers into parts that you know to help with facts that you don't know If you need to add 5 + 7, you could think of **5** as 1 + 4 or **2 + 3**. So, to find **5** + 7 you could think **2** + <u>3 + 7</u> because you can make a <u>10</u>. OR you could think of **7** as 6 + 1 or **5 + 2** or 4+ 3. So, to find 5 + **7** you could think <u>5 + **5** + 2</u> because you know the double of 5

ADDITION AND SUBTRACTION REPRESENTATIONS



think addition for subtraction

17 – 8 =	
Think	
8 +	= 17

inverse relationships

9 + 8 = 178 + 9 = 1717 - 9 = 817 - 8 = 9

FLUENCY WITH ADDITION AND SUBTRACTION

Computational fluency refers to having flexible, efficient, and accurate methods for computing. Students exhibit computational fluency when they demonstrate strategic thinking and flexibility and can explain and produce accurate answers efficiently. By studying patterns, relationships, and strategies students build a foundation for fluency for addition and subtraction.

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