# WAR games for Fact Fluency 

Materials: A deck of cards!

Addition War：Deal the entire deck to all players．Each player turns over 2 cards to find the sum（emphasize this language！）．The player with the higher sum wins and takes all 4 cards；repeat this until all the cards are gone．The player with the most cards at the end wins．

## Variations：

1．The player with the lowest sum wins the round and takes all the cards．
2．Choose a target number，such as 12 ；the player with the sum closest to the target number wins the round．
3．Turn over 3 cards and find the sum（this is appropriate for 1 st grade and higher）．

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I Subtraction War：Deal the entire deck to all players．Each player turns Il over 2 cards to find the difference between the numbers．For students $\|$ in grades K－5，have them use the larger digit first．For example，if they ｜turn over a 4 and 6，make sure they subtract 6－4＝2．

## Variations：

1．Turn over 2 cards to make a 2 －digit number，and then turn over 1 card．Subtract the 1－digit from the 2－digit to work on mental math with larger numbers．
2．Start with a target number such as 20 ．Both players turn over 2 cards．First，find the sum of the 2 cards，then subtract that sum from the target number．For example，turn over 4 and 9.
Step 1：4＋9＝13 Step 2：20－13＝7

Multiplication War: Deal the entire deck to all players. Each player turns over 2 cards to find the product. The player with the greater product (or lower product - you decide!) wins. Play continues as normal.

Variations:

1. Create a "work mat" for visual learners where they can place the cards and see a multiplication and equal sign. This can be applied to any math war game.
2. Find the product of 2 cards as normal, and then multiply the product by 10 or 100 or 1,000 to build understanding of place value and operations. This is appropriate for students in grade 3 or higher.
3. Use dice or dominoes instead of cards so students become flexible with their number understanding.

Division War: Using division flashcards (you can buy or make your l own), deal the cards out to all the players. Each player turns over one card with a division problem on it and the player with the greater (or lower) quotient wins.

## Variations:

1. Using a deck of cards (not flashcards) turn over 2 cards to make a 2-digit number, and then turn over 1 card. Decide if the 2-digit number is divisible by the 1 digit number. Emphasize it is divisible when there is no remainder. For example, 29 is not divisible by 5 because there is a remainder. If neither partner has a divisibility connection then all the cards go into a "junk" pile.
2. Pick a target number such as 32: each player turns over 1 card and whichever card is a factor of 32 , that player wins the round. So if the players turn over 6 and 8 , the player with the 8 wins because 8 is a factor of 32 .

Fraction War: Deal the entire deck out to all the players. Each player turns over 2 cards and creates a proper fraction (the numerator is less than the denominator), so if you turn over a 3 and 5 the fraction should be $3 / 5$. The player with the greater (or lower) fraction wins! Creating If fraction mats could really help younger students. This is appropriate for students in grade 3 or higher.

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| Variations:

1. As their fraction understanding grows, they can compare improper fractions, so the 1 st card turned over is the numerator and the 2 nd card is the denominator.
2. Use benchmarks such as $0,1 / 2$, and 1 to help compare fractions. Emphasize language when your children are struggling, "my fraction is greater than a $1 / 2$. Your fraction is less than $1 / 2$ so my fraction has to be greater than your fraction."
3. Pick a target fraction such a $1 / 2$ and whichever player is closest to $1 / 2$ wins that round!
4. For a real challenge, compare fractions to decimals or percents!
