



Mathematical Playing Cards

Games!

Go Fish

Play a classic game of Go Fish, matching cards in pairs until someone is out!

- Goal: Create pairs of cards
- Deal each player 5 cards. Players identify any pairs they have and set them down. Then players take turns asking others if they have a match to one of their cards. If they don't, they say "Go Fish!" and the player draws another card from the deck.
- Suggestions: Start playing with just two suits or with just the lower numbers, then add more cards as players gain confidence.

Go Make Ten

Based on the classic game of Go Fish, make pairs to 10 until someone is out!

- Goal: Create pairs of cards with pairs combining to equal 10: $9+1$, $8+2$, $7+3$, $6+4$, $5+5$. The 10 card doesn't need a pair as it already equals 10! Face cards can be matched with their usual pair
- Deal each player 5 cards. Players identify any pairs to 10 they have and set them down. Then players take turns asking others if they have a match to one of their cards. For example, if player has a 7, they can ask: Do you have a 3? If not, say "Go Fish!" and the player draws another card from the deck.
- Suggestions: Start playing with just two suits, then add more cards as players gain confidence.

Memory

Lay cards face-down and play a classic game of Memory

- Goal: Create pairs of cards
- Options: Pairs can be the card's match, or the pair that makes 10
- Lay cards face down in rows and columns. Players take turns turning over 1 card and then another, trying to match a pair. If a match is made, take the pair. If not, flip the cards back over. Then remember where certain cards are to help make future matches!
- Suggestions: Start playing with just two suits or with just the lower numbers, then add more cards as players gain confidence.



Number War

Play this dueling game and see who triumphs!

- Goal: To have the largest number and end with the most cards
- Deal all cards out equally. Players flip the top card at the same time and identify how many it is. Whoever has the largest number takes the cards! The winner is whoever has the most cards in the end.
- Suggestions: You can also change this up so that the lowest number wins.

Addition Number War

Play this dueling game by flipping and adding 2 cards.

- Goal: To have the largest sum and end with the most cards
- Deal all cards out equally. Players flip the top 2 cards at the same time and add the cards together. Whoever has the largest total (sum) takes the cards! The winner is whoever has the most cards in the end.
- Suggestions: You can also change this up so that the lowest total (sum) wins.

Subtraction Number War

Play this dueling game by flipping and subtracting 2 cards.

- Goal: To have the largest difference and end with the most cards
- Deal all cards out equally. Players flip the top 2 cards at the same time and subtract to find the difference. Whoever has the largest total (difference) takes the cards! The winner is whoever has the most cards in the end.
- Suggestions: You can also change this up so that the lowest difference wins.

Multiplication Number War

Play this dueling game by flipping and multiplying 2 cards.

- Goal: To have the largest product (total) and end with the most cards
- Deal all cards out equally. Players flip the top 2 cards at the same time and multiply the cards together. Whoever has the largest total (product) takes the cards! The winner is whoever has the most cards in the end.
- Suggestions: You can also change this up so that the lowest product wins.

Division/Fraction Number War

Play this dueling game by flipping and adding 2 cards.

- Goal: To have the largest fraction (quotient) and end with the most cards
- Deal all cards out equally. Players flip the top 2 cards at the same time and create a fraction/division problem by placing one card in the numerator and one in the denominator. Whoever has the largest fraction (quotient) takes the cards! The winner is whoever has the most cards in the end.
- Suggestions: You can also change this up so that the lowest fraction wins.



Integers Number War

Play this dueling game and see who triumphs!

- Goal: To have the largest integer and end with the most cards
- Deal all cards out equally. Black suits represent positive numbers ("in the black") and red suits represent negative numbers ("in the red"). Players flip the top card at the same time and identify how many it is as "positive ___" or "negative ___". Whoever has the largest integer takes the cards! The winner is whoever has the most cards in the end.
- Suggestions: You can also change this up so that the lowest integer wins.

Combining Integers Number War

Play this dueling game by flipping and combining 2 cards.

- Goal: To have the largest integers sum and end with the most cards
- Deal all cards out equally. Black suits represent positive numbers ("in the black") and red suits represent negative numbers ("in the red"). Players flip the top 2 cards at the same time and combine the integers together. Whoever has the largest total (sum) takes the cards! The winner is whoever has the most cards in the end.
- Suggestions: You can also change this up so that the lowest total (sum) wins.

Multiplying Integers Number War

Play this dueling game by flipping and multiplying 2 cards.

- Goal: To have the largest integers product and end with the most cards
- Deal all cards out equally. Black suits represent positive numbers ("in the black") and red suits represent negative numbers ("in the red"). Players flip the top 2 cards at the same time and multiply the integers together. Whoever has the largest total (product) takes the cards! The winner is whoever has the most cards in the end.
- Suggestions: You can also change this up so that the lowest product wins.