

Multiplication/Division Chart

x/÷	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Games to Play with a Deck of Cards

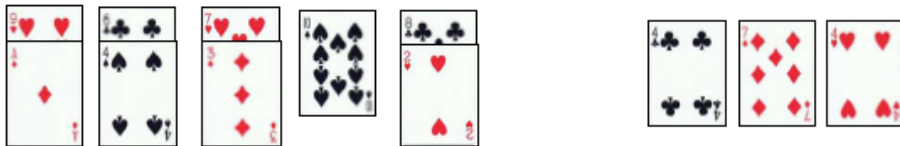


GIVE ME 10

- Players:** 2
- Materials:** Deck of cards with the face cards removed, Ace worth one
- How to Play:** Deal 12 cards face up.



Players take turns finding and removing combinations of cards that add up to 10.

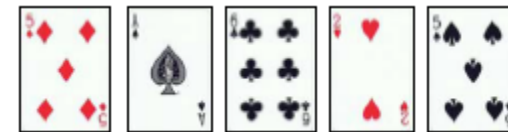


When both the players agree that no more tens are possible, the next 12 cards are dealt face up.

HIT THE TARGET

- Players:** 2
- Materials:** Deck of cards, Ace worth 1 or 11, Jack worth 12, Queen worth 13, King worth 14, scratch paper

How to Play: Select a target number from 1-30. One of the players turns five cards from the deck face up. Both players try to make a number sentence using all five cards with any operations to reach the target number.



For example, suppose the target number is 20 and the cards in play are 5, 5, 6, 2, and Ace (worth 1).

$$\begin{array}{c} 5 \\ \diamond \end{array} \times \begin{array}{c} 2 \\ \heartsuit \end{array} + \begin{array}{c} 5 \\ \spadesuit \end{array} + \begin{array}{c} 6 \\ \clubsuit \end{array} - \begin{array}{c} 1 \\ \spadesuit \end{array} = 20$$

One winning combination is: $5 \times 2 + 5 + 6 - 1 = 20$. Other combination would also work. The first player to find a winning combination keeps the cards and chooses the next target number.

MULTI-DIGIT MULTIPLICATION NUMBER BATTLE

Players: 2

Materials: Deck of cards with the face cards and 10s removed, Ace worth one, scratch paper

How to Play: Players split a deck of cards and simultaneously flip over their top three (or four) cards. Make two of them a 2-digit number and multiply by the third. The highest product wins all the cards.



Player 1: product is 261

Player 2: product is 384

The highest product wins all six (or eight) cards.

Increase the number of cards to flip if you want to work on larger numbers.

ADDITION NUMBER BATTLE

Players: 2

Materials: Deck of cards, face cards worth ten, Ace worth 1 or 11 (players decide)

How to Play: Players split a deck of cards and simultaneously flip over their top two and add the two cards together. The highest sum wins all the cards.

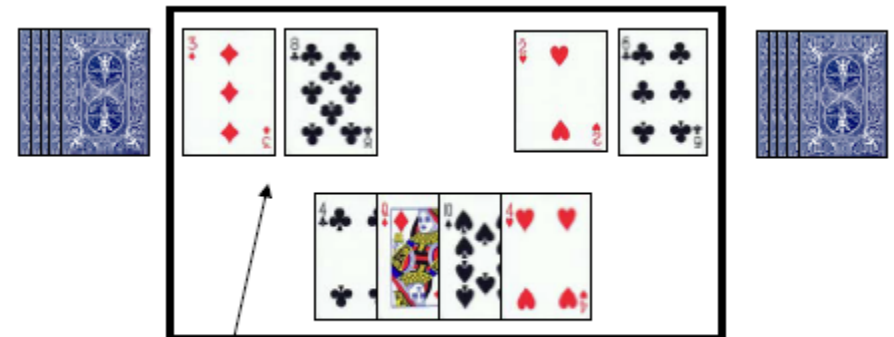


Player 1: sum is 13

Player 2: sum is 8

The highest sum wins all four cards.

If the cards have the same sum, the cards are placed in the center pile. The next hand is played normally and the winner takes all the cards.



Player 1: sum is 11

Player 2: sum is 8

MULTI-DIGIT SUBTRACTION BATTLE

Players: 2

Materials: Deck of cards with the face cards and 10s removed, Ace worth one

How to Play: Players split a deck of cards and simultaneously flip over their top three cards. Make two of them into a 2-digit number and subtract the third. Players may move the cards and place them in any position of the number they wish. The greatest difference wins all the cards.



Player 1: $98 - 3 = 95$

Player 2: $76 - 4 = 72$

The greatest difference wins all six cards.

Increase the number of cards to flip if you want to work on larger numbers.

MULTIPLICATION NUMBER BATTLE

Players: 2

Materials: Deck of cards, face cards worth ten, Ace worth 1 or 11 (players decide)

How to Play: Players split a deck of cards, simultaneously flip over their top two cards, and multiply the two numbers. The greatest product wins all the cards.

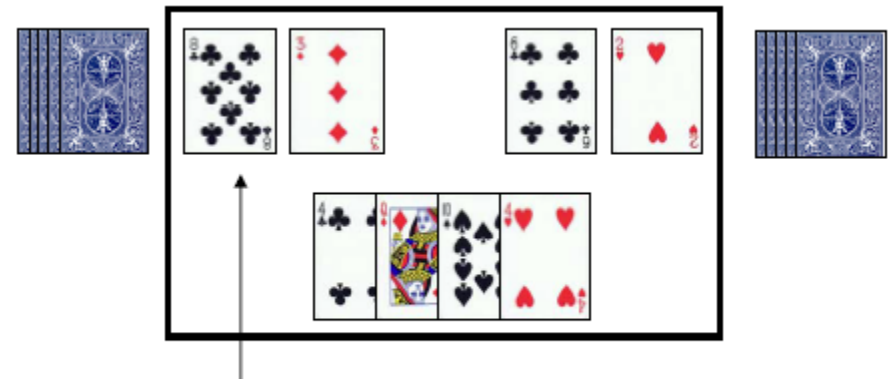


Player 1: product is 30

Player 2: product is 80

The highest product wins all four cards.

If the cards have the same product, the cards are placed in the center pile. The next hand is played normally and the winner takes all the cards.



Player 1: product is 24

Player 2: product is 12