

# FAMILY MATH FUN

## Handouts and Directions



## HOW TO PLAY Deal to 100 (modification of Roll to 100)

**Note to Families:** This is a modification of the game **Roll to 100** played in class. Use this sheet to review the directions with your child. When you play the game together at home, be sure to give your child time to think about how to mentally add the numbers. You may want to give some pointers as they are working with their mental addition. Please keep both the game directions and the deck of playing cards in a safe place at home for continued use.

### Materials:

- Deck of Cards (face cards are removed)

**Players:** 2 to 4

**Object:** to reach 100 first

### How to Play

1. During each turn the players can turn over as many cards as they would like until they want to stop or an Ace is shown (represents the number 1 in this game). Once a player gets a 1, their total for the turn is a 0 and they must give the deck of cards to the next player.
2. For example the first player draws one card from the deck (5) and says this number aloud to the rest of the players.
3. The same player then draws a new card from the deck (3) and places it next to the first card (5). The player adds the numbers together and says the number sentence aloud to the rest of the players for verification (5 plus 3 equals 8 **OR** 5 and 3 make 8).
4. The same player takes another card from the deck (8) and places it next to the two cards already laid down (5 and 3). The player adds the new number to the previous total (8) and says the number sentence aloud to the other players (8 plus 8 equals 16).
5. The player can stop here and receive 16 points for this round or can turn over another card to continue to add to the total. When the player decides to stop, the final total is the number of points received for that round. **UNLESS** that person turns over a 1 (an Ace) during the turn. The score is automatically reduced to a 0 and the next player gets the deck of cards.
6. When all cards have been used and a player has not reached 100, just reshuffle the cards and keep going! The game is over when someone reaches 100 or more points.

### Variations:

Try some of these different ways to play the game.

- Players start at 100 and subtract the numbers to get to 0.
- To work with multiples of 10 you can put the Jacks into the deck and have the players add 20 when they see a Jack.

# HOW TO PLAY Fact Family Flash

**Note to Families:** This is to reinforce the concept of fact families. Use this sheet to review the directions with your child. When you play the game together at home, be sure to give your child time to think about how manipulate numbers to create fact families. Please keep both the game directions and the deck of playing cards in a safe place at home for continued use.

## Materials:

- Deck of Cards (red cards only {hearts and diamonds}; aces = 1, jacks = 11, queens = 12, kings = 13)
- Game board
- Counters (beans, macaroni, coins, etc.)

**Players:** 2

**Object:** to cover all the numbers on the game board before the other player

## How to Play

1. Shuffle the deck of cards and place face down on the game board between the 2 players.
2. The first player takes the top card from the deck and places it face up.
3. The first player needs to decide which fact family to use for the card shown. (*Example: If the first player turned up the number 5, then the player could use 1, 4, and 5 for the fact family OR the player could use 2, 3, and 5 for the fact family.*) The player needs to show the fact family on a scratch piece of paper (*Example:  $1 + 4 = 5$ ;  $4 + 1 = 5$ ;  $5 - 1 = 4$ ;  $5 - 4 = 1$ .*) When the other player verifies that the fact family is correct, the first player can then cover the addends used in the fact family on the game board. (*Example: If the first player used 1, 4, and 5 for the chosen fact family then the numbers 1 and 4 can be covered on the game board.*)
4. The second player then takes the next card from the deck and turns it face up on top of Player One's card. This player now needs to decide which fact family to use for the number shown and cover those addends.
5. If a number has already been used, it can have another counter placed on top to show it was used more than once.
6. Play continues in this manner until one player has covered all of the numbers on their game board. The deck may need to be reshuffled once to finish the game.

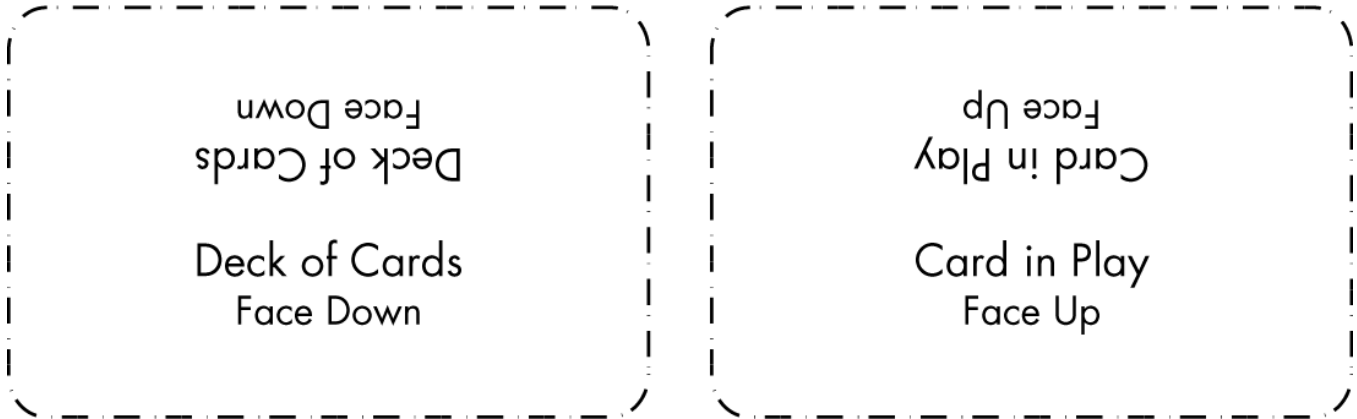
## Variations:

Try some of these different ways to play the game:

- Make your own game board to 10 if your child needs to work with sums less than 11. Just take out the face cards and the aces.
- You can create a game board to work with multiplication and division fact families.

7	8	9	10	11	12	13
0	1	2	3	4	5	6

## Fact Family Flash



## Fact Family Flash

0	1	2	3	4	5	6
7	8	9	10	11	12	13