

# Divisibility Dash

## Materials

- Number Cards 0-9 (4 of each)
- Number Cards: 2, 3, 5, 6, 9, 10

Players: 1 or 2

## Grade 6 Practiced Skill:

Operations & Computation Goal 2: Use mental arithmetic, paper-and-pencil algorithms to solve problems involving the multiplication and division of whole numbers, decimals, and signed numbers. Recognizing multiples, using divisibility tests.

Object of game: To discard all cards

## **Directions:**

1. Shuffle the divisor cards and place them number-side down on the table. Shuffle the draw cards and deal 8 to each player. Place the remaining draw cards number-side down next to the divisor cards.
2. For each round, turn the top divisor card number-side up. Players take turns. When it is your turn:
  - Use the cards in your hand to make 2-digit numbers that are multiples of the divisor card. Make as many 2-digit numbers that are multiples as you can. A card used to make one 2-digit number may not be used again to make another number.
  - Place all the cards you used to make 2-digit numbers in a discard pile.
  - If you cannot make a 2-digit number that is a multiple of the divisor card, you must take a card from the draw pile. Your turn is over.
3. If a player disagrees that a 2-digit number is a multiple of the divisor card, that player may challenge. Players use the divisibility test for the divisor card value to check the number in question. Any numbers that are not multiples of the divisor card must be returned to the player's hand.
4. If the draw pile or divisor cards have all been used, they can be reshuffled and put back into play.
5. The first player to discard all of his or her cards is the winner.

## **Note**

- The number cards 0-9 (4 of each) are the draw cards (draw pile).
- The number cards 2, 3, 5, 6, 9, and 10 (2 of each) are the divisor cards)

## **EXAMPLE:**

Chloe's cards: 1, 2, 5, 5, 7, 8

Divisor card: 3

Chloe uses her cards to make 2 numbers that are multiples of 3:

The cards 1, 5 make the number 15 ( $5 \times 3 = 15$ )

The cards 5, 7 make the number 57 ( $19 \times 3 = 57$ )

She discards these 4 cards and holds the 2 and 8 for the next round of play.

## **Key Vocab in Spanish:**

- Divisor      Divisor
- Múltiplo      Multiple
- Prueba de divisibilidad      Divisibility test

