

Objective

By the end of this lesson, Rihanna will be able to understand and work with decimal numbers confidently.

Materials and Prep

- Paper
- Pencil
- Calculator (optional)
- Basic understanding of fractions

Activities

- **Decimal Bingo:** Create a Bingo game using decimal numbers. Make cards with different decimal numbers and call out the numbers for Rihanna to mark on her Bingo card.
- **Decimal Conversion Race:** Give Rihanna a list of fractions and ask her to convert them into decimals as fast as she can. Time her and see her improvement!
- **Decimal Art:** Let Rihanna create a piece of art using decimal numbers. For example, she can draw a picture using decimal grid coordinates.

Talking Points

- **Decimal Basics:** "Decimals are a way to represent parts of a whole. They are like fractions but with a different format."
- **Decimal Place Value:** "Each digit in a decimal number has a specific place value. The first digit after the decimal point is the tenths place, the second digit is the hundredths place, and so on."
- **Adding and Subtracting Decimals:** "When adding or subtracting decimals, line up the decimal points and then perform the operation as you would with whole numbers."
- **Multiplying and Dividing Decimals:** "When multiplying decimals, ignore the decimal points and multiply the numbers as if they were whole numbers. Then, count the total number of decimal places in the numbers you multiplied and place the decimal point in the answer accordingly."
- **Decimal to Fraction Conversion:** "To convert a decimal to a fraction, write the decimal as a fraction with the decimal number as the numerator and a power of 10 as the denominator. Then simplify the fraction if possible."