

11-24-24 Adding and Subtracting Fractions

C&L Math Tutoring

November 24, 2024

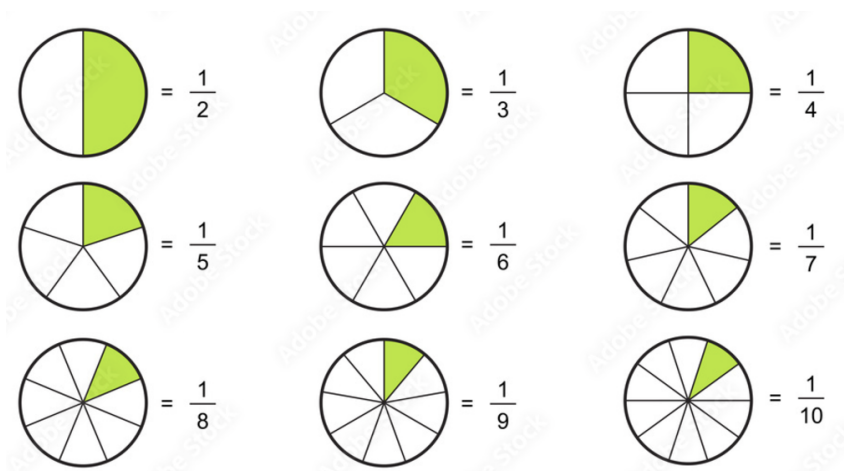
Introduction to Fractions

A **fraction** represents a part of a whole.

The **numerator** represents the number of parts and the **denominator** represents the number of parts in the whole.

$$\frac{\text{numerator}}{\text{denominator}}$$

Identifying Fractions



Adding and Subtracting Fractions

When we add and subtract fractions, we find the **common denominator** and add the numerators together.

Example:

$$\frac{1}{2} + \frac{3}{4} = ?$$

Step 1: Find the LCM of the two denominators. In this case, the LCM (least common multiple) is 4.

Step 2: Change both denominators to the LCM by multiplying each fraction by whatever is needed to get to that number.

$$\left(\frac{2}{2}\right) \cdot \left(\frac{1}{2}\right) + \frac{3}{4} = \frac{2}{4} + \frac{3}{4}$$

Step 3: Add the numerators and put it all over the denominator.

$$= \frac{5}{4} \text{ or } 1\frac{1}{4}$$