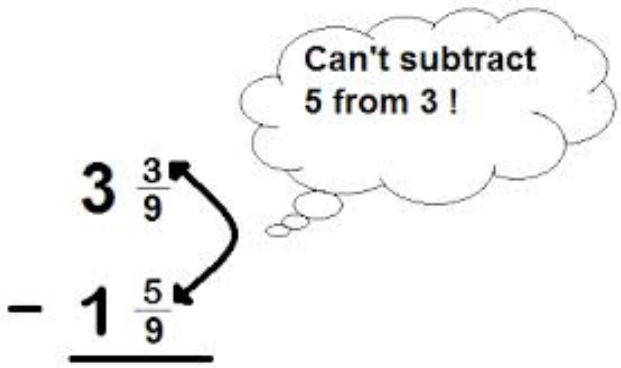
Subtracting Fractions with Regrouping



Renaming a fraction: Changing the way a fraction appears without changing its value so that you can easily subtract.

EX:

Borrowing: Changing a whole number into a fraction so you can subtract it.

EX:

Steps for regrouping to subtract mixed numbers:

1. Rename the fractions so they have like denominators

2. Regroup the first mixed number (borrow or rename) if its fraction is less than the fraction in the second mixed number

3. Subtract the fractions and then the whole numbers

4. Simplify (if needed)

Ex ① Renaming

$7 - 2\frac{1}{3}$

$6\frac{3}{3} - 2\frac{1}{3}$

$\boxed{4\frac{2}{3}}$

Ex ② Borrowing

$$15\frac{2}{9}\cdot\frac{2}{2} \qquad \frac{4}{18}\cdot\frac{18}{18} \qquad 14\frac{22}{18}$$

$$-\ 7\frac{5}{6}\cdot\frac{3}{3} \qquad \frac{15}{18} \qquad -7\frac{15}{18}$$

$$7\frac{7}{18}$$