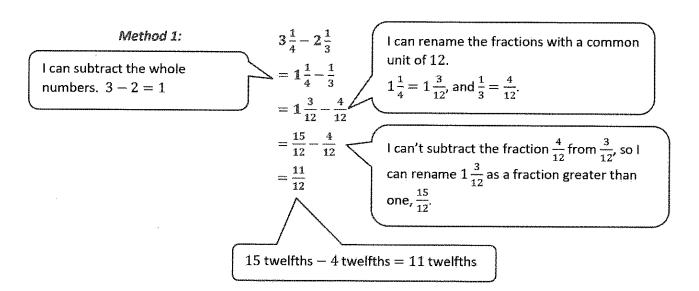
G5-IVI3-Lesson 12

- 1. Subtract. I can subtract these mixed numbers using a variety of strategies.
 - a. $3\frac{1}{4} 2\frac{1}{3}$ I can rename these fractions as twelfths in order to subtract.



Method 2:

Or, I could decompose $3\frac{1}{4}$ into two parts with a number bond.

 $3\frac{1}{4}-2\frac{1}{3}$ $3\frac{1}{4}$

Now, I can easily subtract $2\frac{1}{3}$ from 3. $3-2\frac{1}{3}=\frac{2}{3}$

After subtracting $2\frac{1}{3}$, I can add the remaining fractions, $\frac{2}{3}$ and $\frac{1}{4}$.

 $= \frac{8}{12} + \frac{3}{12}$

I can rename these fractions as twelfths in order to add.

$$\frac{2}{3} = \frac{8}{12}$$
, and $\frac{1}{4} = \frac{3}{12}$.

The sum of 8 twelfths and 3 twelfths is 11 twelfths.

Or, I could rename both mixed numbers as fractions greater than one.

$$3\frac{1}{4} = \frac{13}{4}$$
, and $2\frac{1}{3} = \frac{7}{3}$.

Method 3:

And, I can rename the fractions greater than one using the common unit twelfths.

$$\frac{13}{4} = \frac{39}{12}$$
, and $\frac{7}{3} = \frac{28}{12}$.

of 21.

 $5-4\frac{6}{7}=\frac{1}{7}$

39 twelfths minus 28 twelfths is equal to 11 twelfths.

b.
$$19\frac{1}{3} - 4\frac{6}{7}$$

Method 1:

I can subtract the whole numbers, 19 - 4 = 15

$$15\frac{7}{21} = 14 + 1 + \frac{7}{21}$$

$$= 14 + \frac{21}{21} + \frac{7}{21}$$

$$= 14 + \frac{28}{21}$$

$$= 14\frac{28}{21}$$

 $19\frac{1}{3}-4\frac{6}{7}$

 $3\frac{1}{4}-2\frac{1}{3}$

 $=\frac{39}{12}-\frac{28}{12}$

$$= 15\frac{1}{3} - \frac{6}{7}$$

$$= 14\frac{28}{21} - \frac{18}{21}$$

$$= 14\frac{10}{21}$$

I can't subtract $\frac{18}{21}$ from $\frac{7}{21}$, so I rename $15\frac{7}{21}$ as $14\frac{28}{21}$.

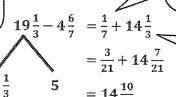
I need to make a common unit

before subtracting. I can rename

these fractions using a denominator

Method 2:

I want to subtract $4\frac{6}{7}$ from 5, so I can decompose $19\frac{1}{3}$ into two parts with this number bond.



Now, I need to combine $\frac{1}{7}$ with the remaining part, $14\frac{1}{3}$.

In order to add, I'll rename these fractions using a common denominator of 21.