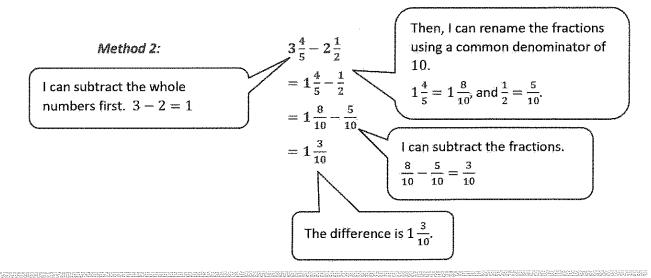
G5-N3-Lesson 11

1. Generate equivalent fractions to get like units and then, subtract.

a. $\frac{3}{4} - \frac{1}{3}$ $= \frac{9}{12} - \frac{4}{12}$ $= \frac{5}{12}$ I can rename fourths and thirds as twelfths in order to subtract. $\frac{3}{4} = \frac{9}{12} \text{ and } \frac{1}{3} = \frac{4}{12}.$ $= \frac{5}{12}$ 9 twelfths - 4 twelfths = 5 twelfths

b. $3\frac{4}{5} - 2\frac{1}{2}$ I can rename halves and fifths as tenths to subtract. I can solve this problem in several different ways.

I can rewrite the mixed numbers with a common denominator of 10. $3\frac{4}{5} = 3\frac{8}{10}, \text{ and } 2\frac{1}{2} = 2\frac{5}{10}.$ Now, I can subtract the whole numbers and then the fractions. $3 - 2 = 1, \text{ and } \frac{8}{10} - \frac{5}{10} = \frac{3}{10}.$ The answer is $1 + \frac{3}{10}$, or $1\frac{3}{10}$.



Lesson 11:

Subtract fractions making like units numerically.

Method 3:

I can also decompose $3\frac{4}{5}$ into two parts using a number bond.

After subtracting $2\frac{1}{2}$, I can add the remaining fractions, $\frac{1}{2}$ and $\frac{4}{5}$.

 $3\frac{4}{5}-2\frac{1}{2}$

 $=\frac{13}{10}$

 $=1\frac{3}{10}$

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

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

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

$$\frac{1}{2} = \frac{5}{10}$$
, and $\frac{4}{5} = \frac{8}{10}$.

The sum of 5 tenths and 8 tenths is 13 tenths. $\frac{13}{10} = \frac{10}{10} + \frac{3}{10} = 1\frac{3}{10}$

Method 4:

I could also rename the mixed numbers as fractions greater than one.

$$3\frac{4}{5} = \frac{15}{5} + \frac{4}{5} = \frac{19}{5}$$
, and $2\frac{1}{2} = \frac{4}{2} + \frac{1}{2} = \frac{5}{2}$.

$$3\frac{4}{5}-2\frac{1}{2}$$

$$\frac{5}{2} = \frac{38}{10} - \frac{25}{10} < \frac{25}{10}$$

$$=\frac{3}{10}-\frac{3}{10}$$

$$=\frac{13}{10}$$

Then, I can rename the fractions greater than one with the common denominator of 10.

$$\frac{19}{5} = \frac{38}{10}$$
, and $\frac{5}{2} = \frac{25}{10}$.

38 tenths minus 25 tenths is 13 tenths.

$$\frac{13}{10} = \frac{10}{10} + \frac{3}{10} = 1\frac{3}{10}.$$