

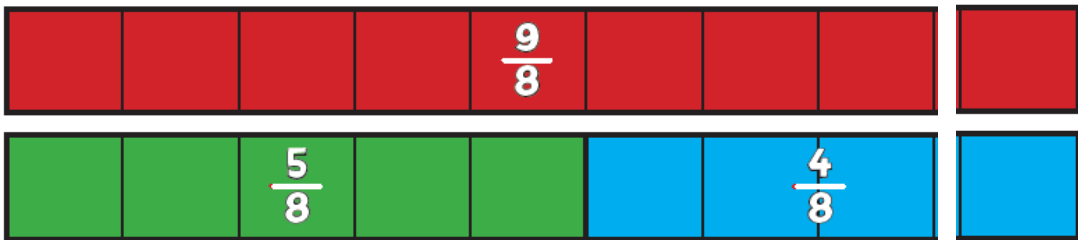
Calculating with Fractions **Subtraction**

Examples where the denominators are the same

$$\frac{7}{10} - \frac{4}{10} = \frac{3}{10}$$



$$\frac{9}{8} - \frac{5}{8} = \frac{4}{8}$$



**Example where the denominators are not the same:
before subtracting the fractions, the denominator(s)
must be changed so that they are the same.**

$$\frac{9}{10} - \frac{3}{5} = \frac{9}{10} - \frac{6}{10} = \frac{3}{10}$$



Step 1 : the denominators are not the same, so find the lowest common denominator, which is **10** in this example.

Step 2 : use our equivalent fraction knowledge to change the fraction(s) so that they have the same denominator. In this example, $\frac{3}{5}$ becomes $\frac{6}{10}$.

Step 3: do the subtraction.

Examples where the denominators are not the same: before subtracting the fractions, the denominator(s) must be changed so that they are the same.

$$\frac{3}{4} - \frac{1}{3} = \frac{9}{12} - \frac{4}{12} = \frac{5}{12}$$



Step 1 : the denominators are not the same, so find the lowest common denominator, which is **12** in this example.

Step 2 : use our equivalent fraction knowledge to change the fractions so that they have the same denominator. In this example, $\frac{3}{4}$ becomes $\frac{9}{12}$ and

Step 3: do the subtraction.

$\frac{1}{3}$ becomes $\frac{4}{12}$.

$$1\frac{4}{5} - \frac{1}{2} = 1\frac{8}{10} - \frac{5}{10} = 1\frac{3}{10}$$



Step 1 : the denominators are not the same, so find the lowest common denominator, which is **10** in this example.

Step 2 : use our equivalent fraction knowledge to change the fractions so that they have the same denominator. In this example, $\frac{4}{5}$ becomes $\frac{8}{10}$ and

Step 3: do the subtraction.

$\frac{1}{2}$ becomes $\frac{5}{10}$.

Examples where the denominators are not the same: before subtracting the fractions, the denominator(s) must be changed so that they are the same.

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



Step 1 : convert $1\frac{1}{2}$ to be an improper fraction... $\frac{3}{2}$.

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



Step 2 : the denominators are not the same, so find the lowest common denominator, which is **6** in this example.

$$\frac{9}{6} - \frac{4}{6} =$$



$$\frac{5}{6}$$



Step 4: do the subtraction.

Step 3: use our equivalent fraction knowledge to change the fractions so that they have the same denominator. In this example, $\frac{3}{2}$ becomes $\frac{9}{6}$ and

$\frac{2}{3}$ becomes $\frac{4}{6}$.