


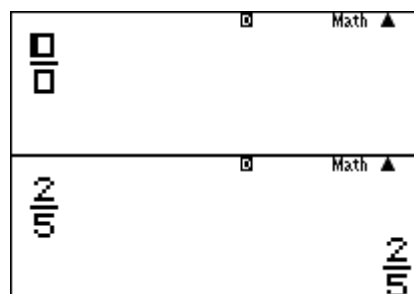
## Module 1: Ratios and Proportional Relationships

### Part A – Addition and subtraction with mixed numbers

Addition and subtraction can be done in many different ways with rational numbers using a variety of template.

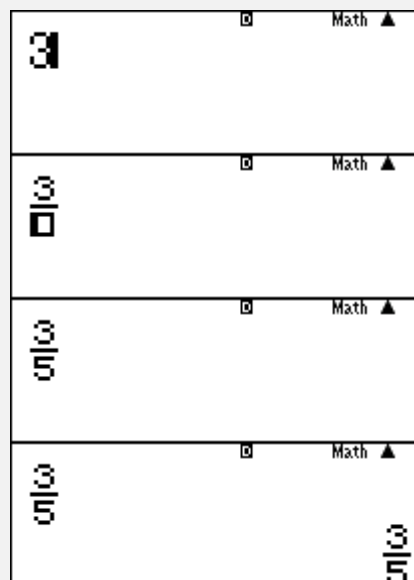
The fraction template is . It can be entered first and then filled out using the arrow keys to navigate.

 **2**  **5** 



Alternatively, you can start by typing the numerator and then using the template for the fraction.

**3**  **5** 



To convert the fraction to a decimal and back use the  $\boxed{\text{S}\leftrightarrow\text{D}}$  key.

The calculator screen shows the fraction  $\frac{3}{5}$  on the left and the decimal  $0.6$  on the right, separated by a horizontal line. The top of the screen displays 'Math' and a triangle icon.

Mixed numbers can be done similar to fraction using the mixed number template  $\boxed{\text{SHIFT}} \boxed{\frac{\Box}{\Box}} (\frac{\Box}{\Box})$ .

$\boxed{\text{SHIFT}} \boxed{\frac{\Box}{\Box}} (\frac{\Box}{\Box}) \boxed{5} \boxed{\rightarrow} \boxed{2} \boxed{\downarrow} \boxed{8} \boxed{\text{DEL}}$   
 $\boxed{7} \boxed{=}$

Or

$\boxed{6} \boxed{\text{SHIFT}} \boxed{\frac{\Box}{\Box}} (\frac{\Box}{\Box}) \boxed{2} \boxed{\downarrow} \boxed{3} \boxed{=}$

The calculator screen shows two mixed numbers on the left and their decimal equivalents on the right, separated by a horizontal line. The top of the screen displays 'Math' and a triangle icon.

Using parentheses  $\boxed{(\Box)} \boxed{)\Box}$  whenever entering negative values is a good practice.

$\boxed{4} \boxed{\text{SHIFT}} \boxed{\frac{\Box}{\Box}} (\frac{\Box}{\Box}) \boxed{2} \boxed{\downarrow} \boxed{3} \boxed{\rightarrow} \boxed{-}$   
 $\boxed{-} \boxed{\text{DEL}} \boxed{(\rightarrow)} \boxed{3} \boxed{\text{SHIFT}} \boxed{\frac{\Box}{\Box}} (\frac{\Box}{\Box}) \boxed{1} \boxed{\downarrow}$   
 $\boxed{8} \boxed{=}$

The calculator screen shows the subtraction of two mixed numbers on the left and the result on the right, separated by a horizontal line. The top of the screen displays 'Math' and a triangle icon.

To convert the final answer between forms use the  $\boxed{\text{S}\leftrightarrow\text{D}}$  or  $\boxed{\text{SHIFT}} \boxed{\text{S}\leftrightarrow\text{D}} \left(a\frac{b}{c} \leftrightarrow \frac{d}{c}\right)$ .

 $\boxed{\text{S}\leftrightarrow\text{D}}$ 
 $\boxed{\text{S}\leftrightarrow\text{D}}$ 
 $\boxed{\text{SHIFT}} \boxed{\text{S}\leftrightarrow\text{D}} \left(a\frac{b}{c} \leftrightarrow \frac{d}{c}\right)$ 
 $\boxed{\text{S}\leftrightarrow\text{D}}$ 

$4\frac{2}{3} - (-3\frac{1}{8})$	Math ▲	7.791 $\overline{6}$
$4\frac{2}{3} - (-3\frac{1}{8})$	Math ▲	7.791666667
$4\frac{2}{3} - (-3\frac{1}{8})$	Math ▲	$7\frac{19}{24}$
$4\frac{2}{3} - (-3\frac{1}{8})$	Math ▲	$\frac{187}{24}$