

TI-83 Calculator Keystrokes

To change a mixed numeral to fractional notation, follow these steps:

1. $30\frac{4}{5} = 30 + 4/5$ Type in **30 + 4/5** on home screen. The "slash" is the division key. Press the MATH key, ENTER key, ENTER key. The fraction is $\frac{154}{5}$.
2. $-8\frac{7}{8} = -(8 + 7/8)$ The negative symbol is on the bottom row under the number 3. You must type the negative symbol, then the parentheses around the whole number "plus" fraction. Press the MATH key, ENTER key, ENTER key. The fraction is $\frac{-71}{8}$.

To change an improper fraction to a mixed numeral, follow these steps.

3. $\frac{19}{8}$ Type in 19 / 8 on the Home screen, press the ENTER key. You get the decimal 2.375. Write down 2; that is the integer part of your answer. Press the minus key, then 2, ENTER. You see .375 on your screen. Press the MATH key, ENTER, ENTER to change .375 to a fraction. Write 3/8 next to the 2 so that you have the mixed numeral $2\frac{3}{8}$.
4. $\frac{-50}{8}$ Type in -50/8 on the Home screen, press the ENTER key. You see - 6.25. Write down - 6. Now the opposite of - 6 is positive 6, so add 6. Press the "+" then press 6. Change the decimal to a fraction. Ignore the negative sign. You already took care of it when you wrote down negative 6. **-.25** = -1/4 so write the 1/4 next to the -6. The mixed numeral is $-6\frac{1}{4}$.

Add or subtract; use parentheses around the mixed numeral.

5. p. 249, # 26. Using your calculator: $(42 + 1/10) - (23 + 7/12) = 18.516667$.

Write down the 18. Subtract 18, then change the decimal to a fraction. Answer is $18\frac{31}{60}$.

Multiply or divide; use parentheses around the mixed numeral.

6. p. 259, # 12 $-(20 + 1/2) \bullet -(10 + 1/5)$ Note that the negative sign must be in front of the parentheses. Press the ENTER key. Write down 209. Subtract 209 and change .1 to a fraction.

Answer: $209\frac{1}{10}$

7. p. 259, # 20 $-(4 + 3/8) / (2 + 5/6)$ Press the ENTER key. Write down the negative 1. Add one. Change the decimal to a fraction. $37/68$ Write down the answer: $-1\frac{37}{68}$

8. p. 260, # 32 Replace the letter with the number given in problem. $18 - \left(2\frac{1}{5}\right)\left(3\frac{3}{4}\right)$ type in your calculator $18 - (2 + 1/5)(3 + 3/4)$ Press the ENTER key; write down the 9. Subtract 9 and change .75 to a fraction. Final answer: $9\frac{3}{4}$