Subtracting Fractions

with regrouping

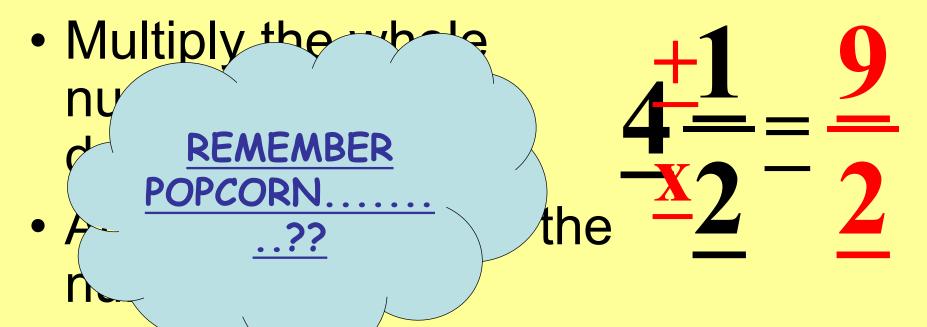
Woo hoo!





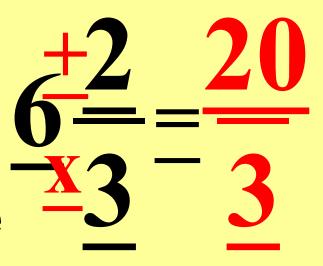
First.....let's remember this from last year.....

How to change a mixed number to an improper fraction

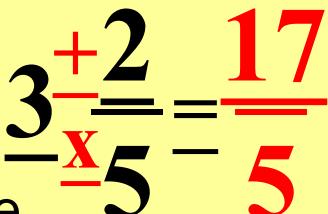


Put year number over the denominator.

- Multiply the whole number times the denominator.
- Add your answer to the numerator.
- Put your new number over the denominator.



 Multiply the whole number times the denominator.

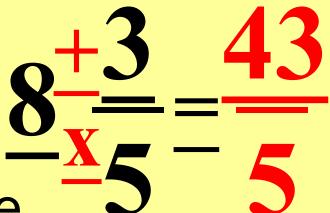


- Add your answer to the numerator.
- Put your new number over the denominator.

 Multiply the whole number times the denominator. $4\frac{+3}{-\frac{19}{4}} = \frac{19}{4}$

- Add your answer to the numerator.
- Put your new number over the denominator.

 Multiply the whole number times the denominator.



- Add your answer to the numerator.
- Put your new number over the denominator.

Excellent!!!!



Let's keep moving....

What if I'm supposed to subtract a larger fraction from a smaller fraction? Regroup just like you would with whole numbers.

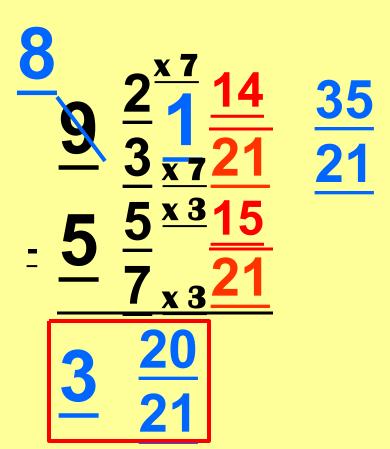
$$\frac{9}{101\frac{4}{9}} \rightarrow \frac{13}{9}$$

$$\frac{4}{2} + \frac{7}{9} = \frac{5}{2} = \frac{5}{2}$$

Can you regroup with unlike denominators?

Sure, but first find the LCD and equivalent fractions.

Watch this!



Let's see that again!

Remember, first find the LCD and equivalent fractions.

Watch this!

$$\frac{13}{20}$$

How about these!

If you have a whole number, make a fraction with 0 in the numerator and the same denominator the mixed number has.

Then regroup as we have before!

Remember to simplify if you need to.

Now, you try!!!!

$$\frac{6}{4} = \frac{1}{8} = \frac{10}{8}$$

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

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

$$\frac{9}{10} \frac{4}{6} = \frac{1}{18} = \frac{30}{18}$$

$$= \frac{4}{9} = \frac{14}{18}$$

$$= \frac{5}{18} = \frac{5}{9}$$

Your turn!!!!

Assignment

WS C-48

Do your best! @ @ @

