

OCTOBER 14, 2014^{5TH}
^{6TH}
STARTER



BE READY TO TAKE QUIZ 2.1
AS SOON AS THE BELL RINGS

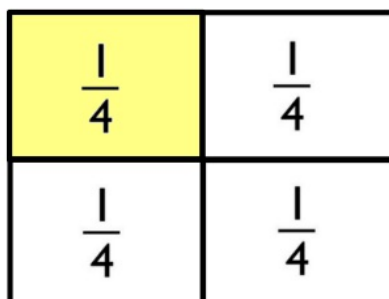
10/14 Adding/Subtraction Rational Numbers FRACTIONS

TWO MINUTE Quick Write:
What are FRACTIONS???

Use division
Rational numbers
Not whole
Less or more than
whole #'s
Combine w/ whole #'s
 $\frac{\text{numerator}}{\text{denominator}}$
measure w/ them

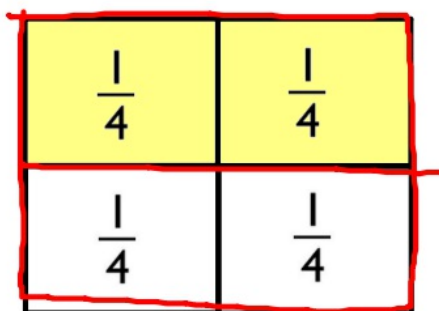
change into decimals
divide to simplify
more accurate than decimals
hard way of saying decimals
put them on a # line
positive or negative
Mrs. Lay LOVES them
Used in everyday life
PEMDAS

If this represent $\frac{1}{4}$, how big is the entire whole?



Compute:

$$\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$$
$$= \frac{1}{2}$$



Try these:

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

Do not add
the denominators

$$\frac{1}{8} + \frac{3}{8} = \frac{4}{8}$$

label

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

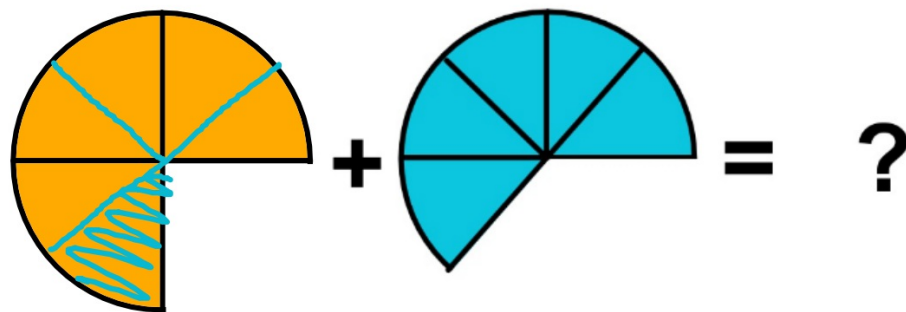
$$\frac{5}{6} - \frac{1}{6} = \frac{4}{6}$$

Always
Simplify!

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

$$-\frac{1}{4} + \frac{3}{4} = \frac{2}{4}$$
$$= \frac{1}{2}$$

$$-\frac{2}{9} + \left(-\frac{4}{9}\right) = -\frac{2}{9}$$



What difficulties do you have trying to add these together?

They are not the same size pieces

What can you do to make it easier?

Split the big pieces in half so they are the same size

Try some harder ones!

$$\frac{1}{2} + \frac{1}{3}$$

Get a common denominator

$$\begin{array}{r} \frac{1 \cdot 3}{2 \cdot 3} \quad \frac{3}{6} \\ + \frac{1 \cdot 2}{3 \cdot 2} \quad \frac{2}{6} \\ \hline \frac{5}{6} \end{array}$$

$$\frac{3}{4} - \frac{5}{8}$$

$$\begin{array}{r} \frac{3 \cdot 2}{4 \cdot 2} \quad \frac{6}{8} \\ - \frac{5}{8} \\ \hline \frac{1}{8} \end{array}$$

$$-\frac{2}{5} + \left(-\frac{1}{2}\right)$$

$$\begin{array}{r} -\frac{2 \cdot 2}{5 \cdot 2} \quad -\frac{4}{10} \\ + -\frac{1 \cdot 5}{2 \cdot 5} \quad -\frac{5}{10} \\ \hline -\frac{9}{10} \end{array}$$

$$-\frac{5}{9} + \left(-\frac{1}{3}\right)$$

$$\begin{array}{r} -\frac{5}{9} \quad -\frac{5}{9} \\ + \frac{1 \cdot 3}{3 \cdot 3} \quad -\frac{3}{9} \\ \hline -\frac{7}{9} \end{array}$$

HOMEWORK

DUE