

OCTOBER 13, 2014<sup>1ST</sup><sub>2ND</sub>  
STARTER



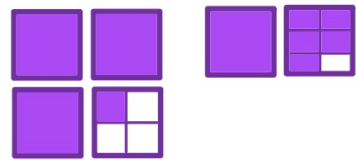
BE READY TO TAKE QUIZ 2.1  
AS SOON AS THE BELL RINGS

## 10/13 Adding Rational Numbers - Fractions

What needs to be done when adding or subtracting fractions?

numerator # you have  
denominator size of the pieces  
(# in a whole)

$$3\frac{1}{4} + 1\frac{5}{6}$$



Why is it necessary to get a common denominator?

So you are adding the same size pieces.

<b>Remember:</b>	<b>Same sign</b>	<b>Different signs</b>
	Add and Keep the sign	Subtract and Keep the sign of the biggest #

$$-2\frac{1}{3} + (-2\frac{4}{5})$$

$$-2\frac{1^5}{3^3} \frac{5}{15}$$

$$-2\frac{4^3}{5^3} \frac{12}{15}$$

$$-4\frac{17}{15}$$

$$-1\frac{2}{15}$$


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$$-5\frac{2}{15}$$

$$-4\frac{3}{4} + (+1\frac{5}{6})$$

$$-4\frac{3^3}{4^3} \frac{9}{12}$$

$$+1\frac{5}{6} \frac{10}{12}$$

$$-2\frac{11}{12}$$

<b>Remember:</b>	<b>Same sign</b>	<b>Different signs</b>
	Add and Keep the sign	Subtract and Keep the sign of the biggest #

Re-write the problem up-and-down with the **biggest number** on the top.

$$\begin{array}{r}
 -5\frac{3}{4} + 9\frac{2}{3} \\
 \phantom{-5}\overset{2 \cdot 4}{\cancel{3}} \cdot \frac{2}{\cancel{3} \cdot 4} \phantom{+ 9} \overset{2 \cdot 3}{\cancel{2}} \cdot \frac{2}{\cancel{3} \cdot 3} \\
 + \phantom{-5}\frac{2 \cdot 4}{3 \cdot 4} \phantom{+ 9} \frac{2 \cdot 3}{\cancel{2} \cdot 3} \\
 \hline
 -5\frac{3 \cdot 3}{4 \cdot 3} \phantom{+ 9} \frac{9}{12} \\
 \hline
 3\frac{11}{12}
 \end{array}$$

$$\begin{array}{r}
 3\frac{2}{5} + (-8\frac{1}{2}) \\
 -8\frac{1}{2} \frac{5}{10} \\
 + 3\frac{2 \cdot 2}{5 \cdot 2} \frac{4}{10} \\
 \hline
 -5\frac{1}{10}
 \end{array}$$

**HOMework**

Blue WS3 (p232)

**DUE** Wednesday