

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

STARTER



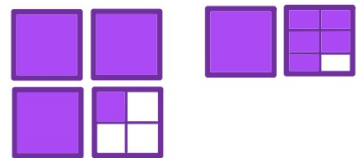
BE READY TO TAKE QUIZ 2.1  
AS SOON AS THE BELL RINGS

## 10/13 Adding Rational Numbers - Fractions

What needs to be done when adding or subtracting fractions?

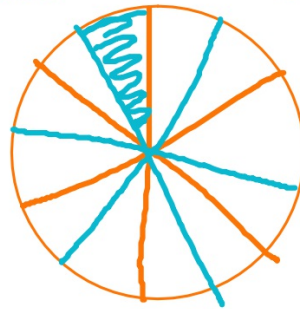
Get a common denominator!

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



Why is it necessary to get a common denominator?

you need the same size piece



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

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

$$-2\frac{1 \cdot 5}{3 \cdot 5} \frac{5}{5}$$

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

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

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

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

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

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

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

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

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

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

$$\begin{array}{r}
 -5\frac{3}{4} + 9\frac{2}{3} \\
 + \cancel{8}\frac{2}{3} \quad \cancel{20}\frac{8}{12} \\
 \hline
 -5\frac{3}{4} \quad \frac{9}{12} \\
 \hline
 3\frac{11}{12}
 \end{array}$$

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

**HOMework**  
Blue WS3

**DUE** Wednesday