

October 20 2014

5*
6*

Starter: 6, 7, 8 → 2
4, 5 → 1



Compute each

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

$$\begin{array}{r} \frac{2}{3} \\ + \frac{-1}{4} \\ \hline \frac{8}{12} \\ - \frac{3}{12} \\ \hline \frac{5}{12} \end{array}$$

2. $\frac{-4}{5} + \frac{1}{2} =$

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

3. $\frac{1}{5} + \frac{-2}{3} =$

$$\begin{array}{r} \frac{1}{5} \\ + \frac{-2}{3} \\ \hline \frac{2}{15} \\ - \frac{10}{15} \\ \hline \frac{-8}{15} \end{array}$$

4. $\frac{1}{8} + \frac{5}{6} =$

$$\begin{array}{r} \frac{1}{8} \\ + \frac{5}{6} \\ \hline \frac{3}{24} \\ + \frac{20}{24} \\ \hline \frac{23}{24} \end{array}$$

This is not a font

10/20 Adding Rational Numbers - Mixed Numbers

What needs to be done when adding or subtracting fractions? **Get a common denom.** 
Answers in simplest form!

$$5\frac{1}{4} + \left(+1\frac{1}{5}\right)$$
$$\begin{array}{r} 5\frac{1 \cdot 5}{4 \cdot 5} \quad \frac{5}{20} \\ + 1\frac{1 \cdot 4}{5 \cdot 4} \quad \frac{4}{20} \\ \hline 6\frac{9}{20} \end{array}$$

$$\left(-2\frac{1}{2}\right) + 3\frac{1}{6}$$

Change-change

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

$$\left(-2\frac{1}{6}\right) + 1\frac{1}{4}$$
$$\begin{array}{r} -2\frac{1 \cdot 2}{6 \cdot 2} \quad \frac{2}{12} \\ + -1\frac{1 \cdot 3}{4 \cdot 3} \quad \frac{3}{12} \\ \hline -3\frac{5}{12} \end{array}$$

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

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

$$-1\frac{4 \cdot 3}{5 \cdot 3} \frac{12}{15}$$

$$-3\frac{17}{15}$$

$15 \overline{) 17} \quad 1$
 $\underline{15}$
 2

$$-1\frac{2}{15}$$
$$-4\frac{2}{15}$$



$$2\frac{1}{6} + \left(+3\frac{7}{8}\right)$$

$$+3\frac{7 \cdot 3}{8 \cdot 3} \frac{21}{24}$$

$$+2\frac{4 \cdot 4}{6 \cdot 4} \frac{4}{24}$$

$$5\frac{25}{24}$$

$24 \overline{) 25} \quad 1$
 $\underline{24}$
 1

$$1\frac{1}{24}$$
$$6\frac{1}{24}$$

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

$$\begin{array}{r} -2\frac{1}{2} \cdot \frac{2}{2} \cdot \frac{2}{4} \\ + -1\frac{3}{4} \cdot \frac{3}{4} \cdot \frac{3}{4} \\ \hline \end{array}$$

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

$$-1\frac{1}{4}$$

$$\textcircled{-4\frac{1}{4}}$$

$\frac{1}{4}$
 $\frac{1}{4}$

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

$$\begin{array}{r} -4\frac{2}{3} \cdot \frac{2}{2} \cdot \frac{10}{15} \\ + -1\frac{2}{5} \cdot \frac{2}{5} \cdot \frac{6}{15} \\ \hline \end{array}$$

$$-5\frac{16}{15}$$

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

$$\textcircled{-6\frac{1}{15}}$$



Homework
Lilac WS5



Due Tuesday