

Dividing Fractions

$$\frac{15}{16} \div \frac{1}{6} = \frac{15}{16} \cdot \frac{6}{1} = \frac{90}{16}$$

reciprocal
(Flip) the 2nd #
Then multiply

$$16 \overline{) 90} \begin{array}{r} 5 \text{ r } 10 \\ 80 \\ \hline 10 \end{array}$$

$$5 \frac{10}{16} = 5 \frac{1}{4}$$

$$14 \frac{1}{3} - 3 \frac{3}{4} = \frac{56}{12} - \frac{9}{4} = \frac{56}{12} - \frac{27}{12} = \frac{29}{12}$$

Types of Fractions

Smaller \rightarrow 3
Larger \rightarrow 5
Proper
Fractions

Larger
(or equal) \rightarrow 9
Smaller \rightarrow 5
(or equal)
Improper
Fraction

2 $\frac{1}{3}$
Mixed
Fraction

$$\frac{3}{4}$$

$$\frac{3}{1}$$

$$\frac{3}{10}$$

$$\frac{6}{5}$$

$$\frac{20}{5}$$

$$4 \frac{1}{3}$$

$$1 \frac{4}{5}$$

$$\frac{10}{5}$$

$$5 \frac{1}{8}$$

Turning an improper into mixed

$$10 \div 5 = \frac{10}{5} = 5 \overline{) 10} \begin{array}{r} 2 \\ -10 \\ \hline 0 \end{array} \quad (2)$$

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

$$3 \overline{) 8} \begin{array}{r} 2 \text{ r } 2 \\ 6 \\ \hline 2 \end{array}$$

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

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

$$\frac{105}{8}$$

$$8 \overline{) 105} \begin{array}{r} 13 \text{ r } 1 \\ 104 \\ \hline 1 \end{array}$$

$$13 \frac{1}{8}$$

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

$$\frac{1}{2} + \frac{3}{4} = \frac{2}{4} + \frac{3}{4} = \frac{5}{4}$$

$$4 \overline{) 15} \begin{array}{r} 3 \text{ r } 3 \\ 12 \\ \hline 3 \end{array} = 4 \frac{3}{4}$$