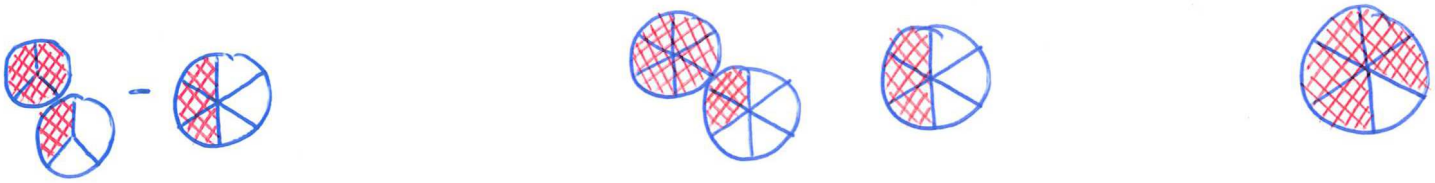
Evaluation Fractions (+-)

common denominator

$$\frac{1}{2} + \frac{1}{3} = \frac{1}{2}\left(\frac{3}{3}\right) + \frac{1}{3}\left(\frac{2}{2}\right) = \frac{3}{6} + \frac{2}{6} = \frac{3+2}{6} = \frac{5}{6}$$

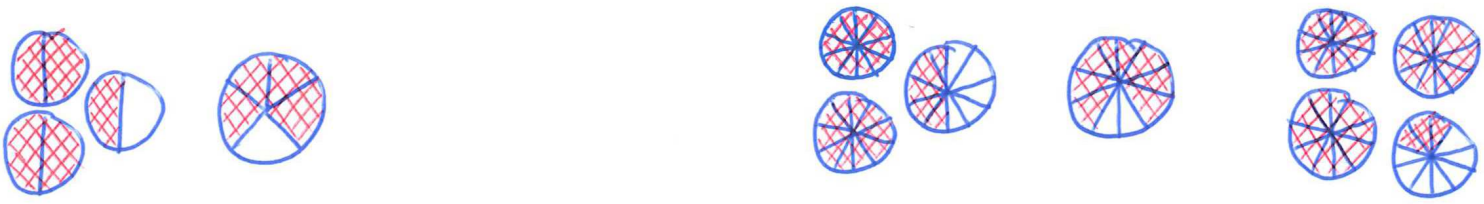
common denominator

$$\frac{4}{3} - \frac{3}{6} = \frac{4}{3}\left(\frac{2}{2}\right) - \frac{3}{6} = \frac{8}{6} - \frac{3}{6} = \frac{8-3}{6} = \frac{5}{6}$$



common denominator

$$2\frac{1}{2} + \frac{4}{5} = 2\frac{1}{2}\left(\frac{5}{5}\right) + \frac{4}{5}\left(\frac{2}{2}\right) = 2\frac{5}{10} + \frac{8}{10} = 2\frac{13}{10}$$



common denominator

$$3 + \frac{2}{3} = 3\frac{0}{3} + \frac{2}{3} = 3\frac{0}{3} + \frac{2}{3} = 3\frac{2}{3}$$

Evaluation Fractions (* ÷)

$$\left(\frac{1}{2}\right)\left(\frac{3}{4}\right) = \frac{3}{8}$$

can not be mixed #

$$\left(1\frac{1}{2}\right)\left(\frac{7}{3}\right) = \left(\frac{3}{2}\right)\left(\frac{7}{3}\right) = \frac{21}{6} = 3\frac{3}{6} = 3\frac{1}{2}$$

Flip denominator

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

Flip denominator

$$\frac{\left(\frac{3}{4}\right)}{\left(1\frac{2}{5}\right)} = \frac{\left(\frac{3}{4}\right)}{\left(\frac{7}{5}\right)} = \left(\frac{3}{4}\right)\left(\frac{5}{7}\right) = \frac{15}{28}$$

can not be mixed #

Flip denominator

$$\frac{\left(\frac{1}{3}\right)}{7} = \frac{\left(\frac{1}{3}\right)}{\left(\frac{7}{1}\right)} = \left(\frac{1}{3}\right)\left(\frac{1}{7}\right) = \frac{1}{21}$$

always over one