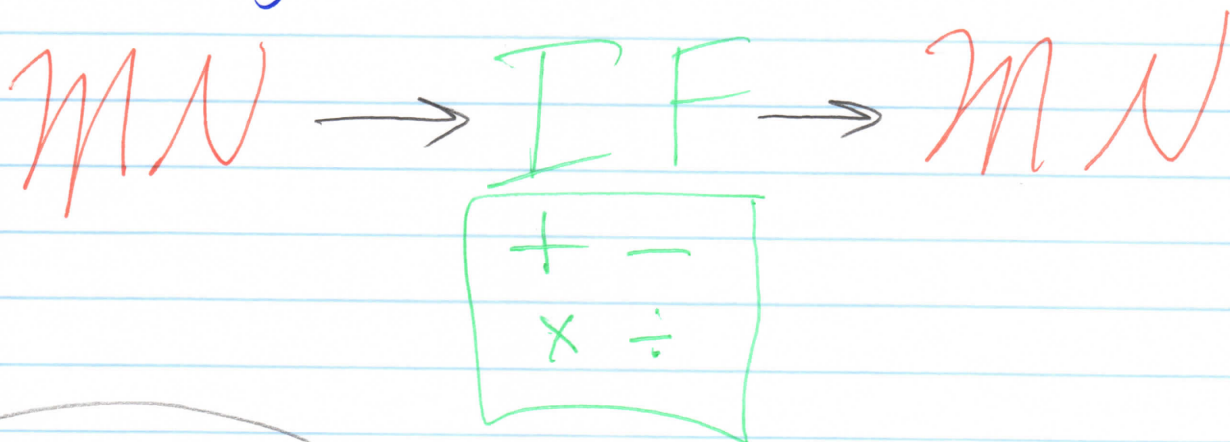


Multiplying Mixed Numbers



ex. $2\frac{1}{4} \times 3\frac{2}{3}$

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

① change mixed #'s to improper fractions

$$\frac{9}{4} \times \frac{11}{3} = \frac{99}{12}$$

② Multiply straight across

$$\frac{99}{12} \div \frac{3}{3} = \frac{33}{4}$$

③ Simplify

$$\frac{33}{4}$$

$$4 \overline{)33} \quad 8\frac{1}{4}$$

④ change improper fraction to mixed #

$$\boxed{8\frac{1}{4}}$$

⑤ Simplify

ex. 2

$$3\frac{2}{3} \times 6$$

$$3\frac{2}{3} \times \frac{6}{1}$$

① change whole # to improper fraction by adding a 1 underneath

$$\frac{11}{3} \times \frac{6}{1}$$

② change mixed # to improper fraction

$$\frac{11}{3} \times \frac{6}{1} = \frac{66}{3}$$

③ multiplied straight across

$$\frac{66}{3} = \frac{3}{3} \frac{22}{1}$$

④ Simplify

$$\frac{22}{1} = \boxed{22}$$

⑤ change improper fraction to whole # by dividing

ex. 2

$$4\frac{2}{3} \times \frac{7}{1}$$

① change whole # to improper fraction by adding a 1 underneath

$$\frac{14}{3} \times \frac{7}{1}$$

② change mixed # to improper fraction

$$\frac{14}{3} \times \frac{7}{1} = \frac{98}{3}$$

③ multiply straight across

$$\frac{98}{3}$$

④ Simplify

$$\begin{array}{r} 32 \\ 3 \overline{)98} \\ \underline{-9} \\ 08 \\ \underline{-6} \\ 2 \end{array}$$

⑤ change improper fraction to mixed # by dividing

$$\boxed{32\frac{2}{3}}$$

⑥ simplify