

"X" fractions w/ mixed #'s
 mixed # \rightarrow improper

- ① "X" whole # by the denominator
 - ② + add the product to the numerator
 - ③ keep the denominator
- MARK** if
 X + keep

$$8 \frac{1}{3} \rightarrow \frac{24}{3} + \frac{1}{3} = \frac{25}{3}$$

M \rightarrow I

$$3 \frac{2}{5} \rightarrow \frac{15}{5} + \frac{4}{5} = \frac{19}{5}$$

"X" fractions (straight across)

$$\text{ex) } \frac{1}{3} \times \frac{4}{5} = \frac{4}{15}$$

$$\text{ex) } \frac{1}{4} \times \frac{4}{5} = \frac{9}{4} \times \frac{4}{5} = \frac{36}{20}$$

$$\text{ex) } \frac{1}{4} \times \frac{3}{3} = \frac{9}{4} \times \frac{5}{3} = \frac{45}{12}$$

divide

\div Fractions

* ① if it is mixed # change to improper

② K = keep the 1st fraction

C = \div to \times

③ F = flip the 2nd fraction ex: $\frac{2}{3} \rightarrow \frac{3}{2}$

③ "X" like normal \rightarrow

ex¹) $\frac{1}{2} \div \frac{2}{1}$

ex²) $\frac{1}{2} \div \frac{3}{4}$

K C F

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

$$\frac{1}{2} \times \frac{4}{3} = \frac{4}{6}$$

ex³) $\frac{11}{2} \div \frac{1}{4}$

ex⁴) $\frac{1}{4} \div 6\frac{1}{3}$

$\frac{11}{2} \div \frac{1}{4}$
K C F

$\frac{1}{4} \div \frac{19}{3}$
K C F

$$\frac{11}{2} \times \frac{4}{1} = \frac{44}{2}$$

$$\frac{1}{4} \times \frac{3}{19} = \frac{3}{76}$$

5 \div

~~Improper~~ Improper \rightarrow mixed

ex) $\frac{12}{5} \times 2$ $\begin{array}{r} 2 \overline{) 12} \\ -10 \\ \hline 2 \end{array}$ $2\frac{2}{5}$ $\begin{array}{r} 10 \\ + \downarrow \\ 2 \overline{) 12} \\ -10 \\ \hline 2 \end{array}$ $\frac{12}{5} \checkmark$

ex) $\frac{17}{2} \times 8\frac{1}{2}$ $\begin{array}{r} 8 \overline{) 17} \\ -16 \\ \hline 1 \end{array}$ $8\frac{1}{2}$ $\frac{17}{2}$

- ① put fraction in a dividing form $\frac{17}{2} \rightarrow 2\overline{)17}$
- ② enter calculator the problem
- ③ Calculate to a fraction using dividing w/ remainder with