

# Mid-Unit Review

## CONVERTING MIXED #S TO IMPROPER FRACTIONS

$$12 \frac{2}{3} \quad 12 \cdot 3 = 36 \quad 36 + 2 = 38 \text{ + Num.} \quad \frac{38}{3} \quad \text{* Denominator stays the same}$$

$$10 \frac{7}{8} \quad 10 \cdot 8 + 7 = 87 \quad \frac{87}{8}$$

\* TO find the reciprocal of a mixed # you MUST convert it to an improper fraction

$$2 \frac{1}{4} \quad 2 \cdot 4 + 1 = 9 \quad \frac{9}{4} \quad \downarrow \quad \frac{4}{9}$$

↑ mixed #                      ↑ improper frac.                      ↑ Reciprocal

## Multiplying Fractions

$$\frac{1}{3} \times \frac{3}{5} = \frac{1}{5}$$

- ✓ diagonals
- x straight across
- Simplify

$$5 \frac{1}{4} \times 9 \frac{1}{3}$$

$$\frac{721}{14} \times \frac{287}{31} = \frac{49}{1} = 49$$

- convert
- ✓ diagonals
- x straight across
- Simplify

## Dividing Fractions

Keep  
Change  
Flip

$$\frac{2}{3} \div \frac{1}{2}$$

$$\begin{matrix} \uparrow & \uparrow & \uparrow \\ K & C & F \end{matrix}$$

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

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

$$\frac{15}{4} \div \frac{3}{2}$$

$$\begin{matrix} K & C & F \\ \uparrow & \uparrow & \uparrow \end{matrix}$$

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

## Multiplying Decimals

$$7 \times 0.15$$

$$5.97 \times 2.1$$

$$\begin{array}{r} 0.15 \text{ (2)} \\ \times \quad 7 \\ \hline 1.05 \text{ (2)} \\ \hline 1.05 \end{array}$$

$$1.05$$

$$\begin{array}{r} 5.97 \\ \times 2.1 \\ \hline 597 \\ + 11940 \\ \hline 12537 \end{array}$$

$$12.537$$