Mixed #'s & Improper Fractions

Mixed # - a whole # and a fraction $3\frac{1}{7}$

Improper Fraction – when the numerator is larger than the denominator (top heavy) $\frac{13}{3}$

Changing Mixed #'x to Improper Fractions

- 1. Multiply denominator by whole #
- 2. Add the numerator to that
- 3. Denominator stays the same

EX.
$$5\frac{2}{7} = \frac{5 \times 7 + 2}{7} = \boxed{\frac{37}{7}}$$
 $7\frac{3}{8} = \frac{7 \times 8 + 3}{8} = \boxed{\frac{59}{8}}$

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$$3\frac{4}{5} = \frac{3 \times 5 + 4}{5} = \boxed{\frac{19}{5}}$$

$$2\frac{5}{9} = \frac{2 \times 9 + 5}{9} = \boxed{\frac{23}{9}}$$

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Changing Improper Fractions to Mixed #'s

- 1. Divide numerator by denominator * B.O. (bottom # outside of \)
- 2. Quotient is the whole # Remainder is the numerator Denominator stays the same

EX.
$$\frac{25}{2} \rightarrow 12 \rightarrow 12$$

$$2)\overline{25}$$

$$\underline{2}$$

$$5$$

$$\underline{4}$$

$$\boxed{1}$$

EX.
$$\frac{25}{2} \rightarrow 12 \rightarrow 12\frac{1}{2}$$
 EX. $\frac{29}{8} \rightarrow 3 \rightarrow 3\frac{5}{8}$
$$2)\overline{25}$$

$$8)\overline{29}$$

$$\underline{2}$$

$$\underline{5}$$

EX.
$$\frac{17}{5} \rightarrow 3 \rightarrow 3\frac{2}{5}$$

$$5)\overline{17}$$

$$\underline{15}$$

$$\overline{2}$$

EX.
$$\frac{53}{4} \rightarrow 13 \rightarrow 13\frac{1}{4}$$

$$4)\overline{53}$$

$$\frac{4}{13}$$

$$12$$