## Adding and Subtracting of Fractions

When adding or subtracting, there must be a common denominat or. If the denominators are different:
(a) W rite the problem vertically (top to bottom)
(b) Find the LCD
(c) Change to equivalent fractions (by building)
(d) Add or subtract the numerat ors (leave the denominators the same)
(e) Simplify and reduce, if possible

Ex. 1: $\frac{3}{5}+\frac{1}{5}=\frac{4}{5}$ The denominators are the same. Add the numerators, keep the denominator. This fraction cannot be simplified or reduced.

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

Ex. 2: $\frac{1}{2}+\frac{1}{4}=?+\frac{1}{4}=\frac{1}{4}$
Ex. 3: $\frac{5}{8}-\frac{1}{3}=? \quad-\frac{1}{3}=\frac{8}{24}$
$\frac{7}{24}$

$$
\frac{2}{3}=\frac{8}{12}
$$

Ex. 4: $\frac{2}{3}+\frac{3}{4}=? \quad+\frac{3}{4}=\frac{9}{12}$


