Math 8 Name_____

Date_____

4.2 Add & Subtract Fractions with Unlike Denominators

Determine:

$\frac{3}{5}+\frac{1}{5}=$ $\frac{4}{5}$ $\frac{5}{8}-\frac{3}{8}=$ $\frac{2}{8}=\frac{1}{4}$ $\frac{2}{3}+\frac{5}{3}=$ $\frac{7}{3}$ improper $2\frac{1}{3}$ $\frac{17}{12}-\frac{1}{12}=$ $\frac{16}{12}=\frac{4}{3}$ $1\frac{4}{12}=1\frac{1}{3}$

* always lowest form

To add or subtract fractions (rationals) there **MUST** be a common denominator. To make things as simple as possible we use the **LOWEST COMMON DENOMINATOR (LCD).**

Determine:

$\frac{1}{3}+\frac{3}{4}$ $\times 4$ $\times 3$ $\frac{4}{12}+\frac{9}{12}$ $=\frac{13}{12}$ or $1\frac{1}{12}$

$\frac{5}{8}-\frac{1}{6}$ $\frac{15}{24}-\frac{4}{24}$ $=\frac{11}{24}$

$\frac{2}{5}+\frac{1}{2}-\frac{2}{3}$ $\frac{12}{30}+\frac{15}{30}-\frac{20}{30}$ $=\frac{7}{30}$

$\frac{3}{20}-\frac{4}{25}$ $\frac{15}{100}-\frac{16}{100}$ $=\frac{-1}{100}$

$\frac{3}{10}+\frac{1}{2}-\frac{3}{4}$ $\frac{6}{20}+\frac{10}{20}-\frac{15}{20}$ $=\frac{1}{20}$

$\frac{2}{5}+\frac{3}{10}=$ $\frac{4}{10}+\frac{3}{10}=\frac{7}{10}$

$\frac{3}{12}-\frac{3}{4}=$ $\frac{3}{12}-\frac{9}{12}$ $=\frac{-6}{12}$ $=\frac{-1}{2}$ $\frac{-1}{2}$

$\frac{7}{10}-\frac{1}{2}+\frac{3}{5}$ $\frac{7}{10}-\frac{5}{10}+\frac{6}{10}$ $=\frac{8}{10}$ $=\frac{4}{5}$

Practice Assignment pg. 113/ #2 – 4, 7 – 9, 13 – 17, **21, 22**