2.3 Problem Solving with Rational Numbers in Fraction Form
September 16, 2015
1:39 PM
Adding/subtracting

$$
\begin{aligned}
& \frac{E x \neq 1}{} \\
&-\frac{2 x^{2}}{3}+\frac{1}{6} \\
&=-\frac{4}{6}+\frac{1}{6}=\frac{-4+1}{6} \\
&=\frac{-3}{6} \\
&=-\frac{1}{2}
\end{aligned}
$$

$$
\begin{aligned}
& \begin{array}{l}
\frac{\text { Ex \#2 }}{2} \\
-3 \frac{1}{3}+2 \frac{5}{6} \quad \begin{array}{c}
\text { * change to } \\
\text { improper } \\
\text { fractions }
\end{array} \\
=-\frac{10}{3}+\frac{17}{6}=\frac{-20+17}{6}=-\frac{3}{6}=-\frac{1}{2}
\end{array}
\end{aligned}
$$

Ex\#3 Write the addition/subtraction statement and solve


$$
\frac{1}{8}+\left(-\frac{1}{2}\right)=-\frac{3}{8} \quad \frac{1}{8}-\frac{1}{2}=-\frac{3}{8}
$$

Muttplication/Division
Ex \#4

$$
\begin{aligned}
& \frac{5}{6} \xrightarrow{x} \frac{3}{2}=\frac{15^{-3}}{12-3} \quad \text { STEPs } \begin{array}{c}
\text { Muitply } \\
\text { Straight }
\end{array} \\
& =\frac{5}{4} \\
& =\frac{1}{4} \\
& \text { across } \\
& \text { STEPZ ReDUCE" } \\
& \text { step } 3 \text { change to } \\
& \begin{array}{l}
\text { poper/mixed } \\
\text { fivaction }
\end{array}
\end{aligned}
$$

$$
\begin{aligned}
& \frac{\text { Ex } \# 5}{2 \frac{2}{3}} \times\left(-1 \frac{3}{4}\right) \\
& =\frac{8}{3} \times\left(-\frac{7}{4}\right)=-\frac{56}{12-4}=-\frac{14}{3}=-4 \frac{2}{3}
\end{aligned}
$$

Ex. \# 6

$$
\begin{aligned}
& \frac{3}{2}-\left(-\frac{1}{5}\right) \\
= & \frac{3}{2} \times\left(-\frac{5}{1}\right)=-\frac{15}{2}=-7 \frac{1}{2} \\
& \underbrace{}_{\text {change }} \\
& \text { to reciporal (flip it) }
\end{aligned}
$$

multiplication
Ex \#1

$$
\begin{aligned}
& -4 \frac{2}{3}-1 \frac{4}{5} \\
& =-\frac{14}{3} \div \frac{9}{5}=-\frac{14}{3} \times \frac{5}{9}=-\frac{70}{27}=-2 \frac{16}{27} \\
& \text { pg } 68 \# 5-10,12-14,16,17,19,21
\end{aligned}
$$

