Chapter 6
Adding and Subtracting Fractions
6.1 Fraction Estimation
$\frac{a}{b}$ where $a<b$
proper fraction

$$
\begin{array}{llll}
\frac{1}{4} & \frac{3}{8} & \frac{9}{16} & \frac{137}{143}
\end{array}
$$

In decimal

$$
\begin{aligned}
& 0.49 \approx 0 \quad<.5 \downarrow \\
& 0.98 \approx 1 \quad \geq .5 \uparrow \\
& 0.01 \approx 0 \quad
\end{aligned}
$$

$\square$
$\square$

Three values to round to

$$
\begin{array}{ll}
0 \quad \frac{1}{2} & \frac{3}{4} \\
\frac{2}{9} \approx 0 & \frac{137}{143} \approx 1 \\
& \frac{7}{15} \approx \frac{1}{2} \\
& \frac{7}{29} \approx 0
\end{array}
$$

Mixed Numbers works like decimals
Round to the nearest whole Number

$$
7 \frac{1}{8} \approx 7
$$

If fraction is more thar $\frac{1}{2} \uparrow$ $1^{1}$ is less then $\frac{1}{2} \downarrow$

$$
\left.\begin{array}{l}
12 \frac{3}{8} \approx 12 \text { is } \frac{3}{8}>\frac{1}{2} \\
\frac{3}{8}<\frac{4}{8}
\end{array}\right] \begin{aligned}
& 7 \frac{13}{25} \approx 8
\end{aligned}
$$

$\square$

$$
\begin{aligned}
& 7 \frac{3}{4}+2 \frac{1}{3} \\
& 8+2 \approx 10 \\
& 1 \frac{3}{4}-\frac{1}{9} \\
& 2-0 \approx 2
\end{aligned}
$$

Fractions

$$
0, \frac{1}{2}, 1
$$

Mixed Numbers round to whole number chevre is no $\frac{1}{2}$
$\square$

$$
C_{\rightarrow \frac{1}{2}+\frac{11}{24}+\frac{3}{8}}=1
$$

$$
C_{1}^{11}-\frac{3}{8}, 1
$$

$$
\begin{aligned}
& 7 \frac{3}{4}+2 \frac{1}{8} \approx 11 \text { High } \\
& 2+2 \approx 10 \\
& 9 \frac{1}{4}-2 \frac{1}{8} \approx 5 \text { Low } \\
& 9-2 \approx 7
\end{aligned}
$$

