## Adding and subtracting mixed numbers

A mixed number has a whole number followed by a fraction: $1 \frac{1}{3}, 2 \frac{5}{8}, \quad 176 \frac{1}{2}$, and $8 \frac{6}{7}$ are examples of mixed numbers

N ote: Don't forget to add or subtract the whole numbers.

Ex. 1: $1 \frac{1}{2}+2 \frac{1}{3}=$ ?
$1 \frac{1}{2}=1 \frac{3}{6}$
$+2 \frac{1}{3}=2 \frac{2}{6}$ $3 \frac{5}{6}$

Ex. 3: $5 \frac{1}{3}+\frac{3}{5}=$ ?
$5 \frac{1}{3}=5 \frac{5}{15}$
$+\underline{\frac{3}{5}}=\underline{\frac{9}{15}}$
$5 \frac{14}{15}$

Ex. 4: $3 \frac{6}{9}-1 \frac{1}{2}=$ ?
$3 \frac{6}{9}=3 \frac{12}{18}$

$$
\begin{gathered}
\text { Ex. 2: } 6 \frac{1}{8}+5=? \\
6 \frac{1}{8} \\
+\underline{5} \\
11 \frac{1}{8}
\end{gathered}
$$

$$
-1 \quad \frac{1}{2}=1 \frac{9}{18}
$$

$$
2 \frac{3}{18}=2 \frac{1}{6}
$$

W hen mixed numbers cannot be subtracted because the bottom fraction is larger than the top fraction, BORROW so that the fractions can be subtracted from each other.

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

The 3/4 cannot be
subtracted from nothing.
One was borrowed from the
8 and changed to $4 / 4.8$ was changed to a 7.Now the mixed numbers can be subtracted from each other.

Ex. 6: $5 \frac{1}{6}-\overline{2} \frac{1}{3}=$ ?
$5 \frac{1}{6}=5 \frac{1}{6}=4 \frac{7}{6}$
$-2 \frac{1}{3}=2 \frac{2}{6}=2 \frac{2}{6}$ $2 \frac{5}{6}$

The $2 / 6$ cannot be subtracted from the $1 / 6$.
One was borrowed from
the 5 , changed to $6 / 6$ and then added to the $1 / 6$ to make $7 / 6$. The whole number 5 was changed to a 4 . Now the mixed numbers can be subtracted.

