Adding and subtracting mixed numbers

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

Note: 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. 2: $6\frac{1}{8} + 5 = ?$
 $6\frac{1}{8}$
 $+ \frac{5}{11\frac{1}{8}}$



When 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. The 2/ cannot be

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

 $8 = 7\frac{4}{4}$
 $-\frac{2\frac{3}{4}}{4} = 2\frac{3}{4}$
 $5\frac{1}{4}$
 $5\frac{1}{4}$
The $\frac{3}{4}$ cannot be
subtracted from nothing.
One was borrowed from the
 8 and changed to $\frac{4}{4}$. 8
was changed to a 7.Now the
mixed numbers can be
subtracted from each other.
Ex. 6: $5\frac{1}{6} - 2\frac{1}{3} = ?$
 $5\frac{1}{6} = 4\frac{7}{6}$
 $-\frac{2\frac{1}{3}}{2} = 2\frac{2}{6} = \frac{2\frac{2}{6}}{2\frac{5}{6}}$

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