

Name Key

Period \_\_\_\_\_

### 4.5 Guided Notes (Add and Subtract Mixed Numbers)

#### Key Concept:

- To add or subtract mixed numbers:
  - Rewrite with the LCD.
  - Add or subtract the fractions.
    - Subtraction Exception:** Sometimes we must rename a fraction to subtract (borrow from the whole number)!
  - Add or subtract the whole numbers.
  - Simplify if necessary.

#### Practice:

1.  $7\frac{4}{9} + 10\frac{2}{9}$

$$\begin{array}{r} 7\frac{4}{9} \\ + 10\frac{2}{9} \\ \hline 17\frac{6}{9} = \boxed{17\frac{2}{3}} \end{array}$$

4.  $5\frac{1}{5} + 2\frac{3}{10}$

$7\frac{1}{2}$

2.  $8\frac{5}{6} - 2\frac{1}{3}$

$$\begin{array}{r} 8\frac{5}{6} \\ - 2\frac{2}{6} \\ \hline 6\frac{3}{6} = \boxed{6\frac{1}{2}} \end{array}$$

5.  $1\frac{5}{9} + 4\frac{1}{6}$

$5\frac{13}{18}$

3.  $6\frac{1}{8} + 2\frac{5}{8}$

$8\frac{3}{4}$

6.  $5\frac{4}{5} - 1\frac{3}{10}$

$4\frac{1}{2}$

Additional Practice:

7.  $13\frac{7}{8} - 9\frac{3}{4}$   $4\frac{1}{8}$

10.  $11\frac{2}{5} - 2\frac{3}{5}$   $8\frac{4}{5}$

8.  $8\frac{2}{3} - 2\frac{1}{2}$   $6\frac{1}{6}$

11.  $8 - 3\frac{3}{4}$   $4\frac{1}{4}$

9.  $7 - 1\frac{1}{2}$   $5\frac{1}{2}$

12.  $3\frac{1}{4} - 1\frac{3}{4}$   $1\frac{1}{2}$

13. An urban planner is designing a skateboard park. The length of the skateboard park is  $120\frac{1}{2}$  feet. The length of the park lot is  $40\frac{1}{3}$  feet. What will be the length of the park and the parking lot combined?

$$\begin{array}{r} 120\frac{1}{2} \\ + 40\frac{1}{3} \\ \hline \end{array} \Rightarrow \begin{array}{r} 120\frac{3}{6} \\ + 40\frac{2}{6} \\ \hline 160\frac{5}{6} \text{ ft} \end{array}$$