

First & Last Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## 7.2 Adding & Subtracting Rationals with Uncommon Denominators Practice

**Directions:** Simplify the expressions below. Don't forget excluded values with your answer.

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

$$\frac{17x}{12}$$

2.  $\frac{7}{n+9} + \frac{12}{4n+36}$

$$\frac{10}{n+9} \quad n \neq -9$$

3.  $\frac{k+5}{k+1} + \frac{8}{k^2-1}$

$$\frac{k+3}{k-1} \quad k \neq -1, 1$$

4.  $\frac{22w+11}{8w^2-6w} - \frac{3}{2w}$

$$\frac{5(w+2)}{w(4w-3)} \quad w \neq 0, \frac{3}{4}$$

$$5. 4 - \frac{5}{4m+8}$$

$$\frac{16m+27}{4(m+2)} \quad m \neq -2$$

$$6. \frac{3c}{c-4} - \frac{2}{5}$$

$$\frac{13w+8}{5(c-9)} \quad c \neq 4$$

$$7. \frac{6}{v+4} + \frac{2}{v-6}$$

$$\frac{4(2v-7)}{(v+4)(v-6)} \\ v \neq -4, 6$$

$$8. \frac{r}{r^2-4} + \frac{1}{r^2-6r+8}$$

$$\frac{r-1}{(r+2)(r-4)} \\ r \neq 2, -2, 4$$