

# Simplifying Algebraic Fractions (D)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression as a single fraction.

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

2.  $\frac{6x}{5} - \frac{x+1}{9}$

3.  $\frac{4x}{8} + \frac{x-2}{9}$

4.  $\frac{2x}{2} - \frac{x-1}{4}$

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

6.  $\frac{x}{7} - \frac{x}{4}$

7.  $\frac{7x}{8} - \frac{x+1}{9}$

8.  $\frac{8x}{9} - \frac{x}{8}$

9.  $\frac{5x}{7} + \frac{x}{6}$

10.  $\frac{4x}{5} - \frac{x+3}{8}$

# Simplifying Algebraic Fractions (D) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression as a single fraction.

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

$$\frac{7x+1}{6}$$

2.  $\frac{6x}{5} - \frac{x+1}{9}$

$$\frac{49x-5}{45}$$

3.  $\frac{4x}{8} + \frac{x-2}{9}$

$$\frac{11x-4}{18}$$

4.  $\frac{2x}{2} - \frac{x-1}{4}$

$$\frac{3x+1}{4}$$

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

$$\frac{x}{2}$$

6.  $\frac{x}{7} - \frac{x}{4}$

$$\frac{-3x}{28}$$

7.  $\frac{7x}{8} - \frac{x+1}{9}$

$$\frac{55x-8}{72}$$

8.  $\frac{8x}{9} - \frac{x}{8}$

$$\frac{55x}{72}$$

9.  $\frac{5x}{7} + \frac{x}{6}$

$$\frac{37x}{42}$$

10.  $\frac{4x}{5} - \frac{x+3}{8}$

$$\frac{27x-15}{40}$$