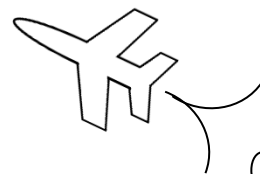


Math on the Fly!



NAME: _____ DATE: _____

Complex Fractions

Simplify each expression below.

1.
$$\frac{\frac{1}{3} + \frac{5}{6}}{\frac{7}{9}}$$

2.
$$\frac{\frac{3}{4}}{\frac{7}{10} - \frac{2}{5}}$$

3.
$$\frac{2 + \frac{1}{12}}{\frac{5}{8} - \frac{1}{6}}$$

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

5.
$$\frac{\frac{11}{14} - \frac{x}{7}}{2}$$

6.
$$\frac{\frac{1}{7} + x}{\frac{2}{x} + 1}$$

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

8.
$$\frac{3 - \frac{1}{3}}{\frac{x}{3} - \frac{3}{x}}$$

SOLUTIONS

$$\boxed{1.} \quad \frac{3}{2}$$

$$\boxed{2.} \quad \frac{5}{2}$$

$$\boxed{3.} \quad \frac{50}{11}$$

$$\boxed{4.} \quad \frac{x-6}{11}$$

$$\boxed{5.} \quad \frac{11-2x}{28}$$

$$\boxed{6.} \quad \frac{x+7x^2}{14+7x} \text{ or } \frac{x(1+7x)}{7(2+x)}$$

$$\boxed{7.} \quad \frac{x^2-1}{x+1} \text{ or } x-1$$

$$\boxed{8.} \quad \frac{8x}{x^2-9} \text{ or } \frac{8x}{(x+3)(x-3)}$$