

Multi-Step Equations with Fractions

$$\boxed{1} \quad \frac{x}{3} - \frac{x-2}{2} = \frac{13}{5}$$

$$\boxed{6} \quad \frac{9(x+3)}{2} - 6x = 3(4-2x)$$

$$\boxed{2} \quad \frac{x-3}{6} = \frac{x-2}{4} - 36$$

$$\boxed{7} \quad \frac{3}{4}x + \frac{1}{2} = \frac{8}{5}x + \frac{9}{8}$$

$$\boxed{3} \quad \frac{2x-1}{3} + \frac{x+2}{4} = \frac{8}{9}$$

$$\boxed{8} \quad \frac{2}{3}(x-7) = \frac{16}{19}(x+4)$$

$$\boxed{4} \quad 2 - \frac{1-x}{27} = \frac{5x+3}{12}$$

$$\boxed{9} \quad \frac{3-2x}{5} - \frac{4x-3}{4} = -9$$

$$\boxed{5} \quad 8 - \frac{9-x}{24} = \frac{8x+31}{9}$$

$$\boxed{10} \quad \frac{6-5x}{15} - \frac{7x+9}{7} = 14$$

Multi-Step Equations with Fractions

Answers

$$\boxed{1} \quad \frac{x}{3} - \frac{x-2}{2} = \frac{13}{5}$$

$$x = -\frac{48}{5}$$

$$\boxed{2} \quad \frac{x-3}{6} = \frac{x-2}{4} - 36$$

$$x = 432$$

$$\boxed{3} \quad \frac{2x-1}{3} + \frac{x+2}{4} = \frac{8}{9}$$

$$x = \frac{26}{33}$$

$$\boxed{4} \quad 2 - \frac{1-x}{27} = \frac{5x+3}{12}$$

$$x = \frac{185}{41}$$

$$\boxed{5} \quad 8 - \frac{9-x}{24} = \frac{8x+31}{9}$$

$$x = \frac{301}{61}$$

$$\boxed{6} \quad \frac{9(x+3)}{2} - 6x = 3(4-2x)$$

$$x = -\frac{1}{3}$$

$$\boxed{7} \quad \frac{3}{4}x + \frac{1}{2} = \frac{8}{5}x + \frac{9}{8}$$

$$x = -\frac{25}{34}$$

$$\boxed{8} \quad \frac{2}{3}(x-7) = \frac{16}{19}(x+4)$$

$$x = -\frac{229}{5}$$

$$\boxed{9} \quad \frac{3-2x}{5} - \frac{4x-3}{4} = -9$$

$$x = \frac{207}{28}$$

$$\boxed{10} \quad \frac{6-5x}{15} - \frac{7x+9}{7} = 14$$

$$x = -\frac{1563}{140}$$