

Solving Equations and Inequalities with Fractions

Directions: Solve each equation.

1. $\frac{3}{7}y + 4 = 1$

2. $9 - \frac{3}{4}t = 12$

3. $-\frac{5}{3}a + 3 = 23$

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

5. $1\frac{1}{2} + \frac{x}{-2} = 3\frac{1}{2}$

Directions: Solve and graph each inequality.

6. $\frac{1}{7}w + \frac{53}{56} \leq \frac{6}{7}$

7. $-\frac{1}{6}x + \frac{2}{3} > \frac{1}{4}$

8. $-\frac{2}{5}m + \frac{2}{15} < \frac{2}{3}$

9. $-45 \leq -\frac{m}{2} + 4$

10. $\frac{n}{-5} + 3.2 \geq 1.4$