

Algebra 1 - Evaluating Inequalities

Solve each of the following:

1. $\frac{2}{5}x + 4 \leq \frac{7}{10}x - 8$

2. $16 - 3x > -6x - 5$

3. $7(2y - 3) \leq 5 - 2(3y - 1)$

4. $-3 \leq 2x + 5 < 11$

5. $4x + 5 < 3$ or $3x - 2 \geq 1$

6. $-2 < \frac{4x-6}{3} \leq 6$

7. $3(2x - 5) \leq 4x + 7$

8. $\frac{2(x+4)}{3} < \frac{3x-5}{2}$

$$9. 5(3x - 2) - 4(x + 1) \leq 2x + 9$$

$$10. -3(2x + 4) \leq 6 - 5(x - 2)$$

$$11. \frac{3(2x+5)-4(x-2)}{5} \leq \frac{7(x+1)-3(2x-3)}{4}$$

$$12. 5 - 2(x + 3) < 3x + 4$$

$$13. \quad 6(x - 2) - 3x \geq 4 + 5(x + 1)$$

$$14. \quad \frac{5x+3}{2} > \frac{2x-1}{4} + x$$

$$15. \quad \frac{3(4x-1)+2(5x+3)}{6} > \frac{4(3x+2)-5(x-3)}{5}$$