

Unit 8 Solving Equations & Inequalities

8.7 Solving Multi-Step Inequalities

Same as solving multi-step equations.

Remember to reverse (flip) the inequality IF you multiply or divide by a negative number.

Ex. Solve, show solution algebraically and graphically:

a) $\frac{x}{4} + 3 > 8$

b) $-2(x + 3) \leq 10x + 18$

Ex. Sarah has two job offers selling electronics.

Job A: \$55 per day plus 3% commission on sales

Job B: \$40 per day plus 5% commission on sales

What value of sales does Sarah need to make daily for Job B to be the better job?