

Unit 8 Solving Equations & Inequalities

8.6 Solving Single-Step Inequalities

Consider the inequality $-3 < 6$. How do mathematical operations $[+, -, \times, \div]$ affect the inequality?

$-3 < 6$

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Conclusion:

Ex. Solve, show solution algebraically and graphically:

a) $x - 3 \geq 2$

b) $-2x < 8$

c) $-5 > \frac{x}{3}$

d) $4x \leq 10$

e) $\frac{x}{-8} < -24$

f) $5 - x > 8$

Ex. A games store has a sale offering all games for \$12.50 each. If you only had \$80, how many games could you buy?