Inequalities

Free worksheet · Grades 7–9 · Fix the mistake from our video

Name _____ Date _____

THE MISTAKE Forgetting to flip: $-2x < 10$ does not give $x < -5$.

THE FIX Dividing or multiplying both sides by a negative flips the sign: $-2x < 10 \rightarrow x > -5$. Check with $x = 0$: $-2(0) = 0 < 10$. ✓

1. $x + 3 > 7$
2. $x - 5 \leq 2$
3. $2x < 10$
4. $-2x < 10$
5. $-3x \geq 12$
6. $x/2 > 3$
7. $-x/4 \leq 1$
8. $3x + 1 > 10$
9. $5 - x < 2$
10. $4 - 2x \geq 10$
11. $2x - 7 \leq -1$
12. $-5x + 2 > 17$

Want more reps? **Inequalities Skill Workbook**
musclemathmania.com/workbooks#skill-inequalities

© 2026 Bean Operations LLC · Free to print for home and classroom use

Inequalities

Free worksheet · Grades 7–9 · Fix the mistake from our video

Answer key

1. $x + 3 > 7$ → **$x > 4$**
2. $x - 5 \leq 2$ → **$x \leq 7$**
3. $2x < 10$ → **$x < 5$**
4. $-2x < 10$ → **$x > -5$**
5. $-3x \geq 12$ → **$x \leq -4$**
6. $x/2 > 3$ → **$x > 6$**
7. $-x/4 \leq 1$ → **$x \geq -4$**
8. $3x + 1 > 10$ → **$x > 3$**
9. $5 - x < 2$ → **$x > 3$**
10. $4 - 2x \geq 10$ → **$x \leq -3$**
11. $2x - 7 \leq -1$ → **$x \leq 3$**
12. $-5x + 2 > 17$ → **$x < -3$**

Got one wrong? Find the step where it went off track, then redo it. Every mistake you fix is a rep.

Want more reps? **Inequalities Skill Workbook**
musclemathmania.com/workbooks#skill-inequalities

© 2026 Bean Operations LLC · Free to print for home and classroom use