## NAME

Module 5	Solving Linear Inequalities of
	One Variable
Lesson 4	Solving Multi-Step Linear Inequalities



## Lesson Objective

• Solve and graph the solution sets to inequalities with variables on both sides.

To solve a multi-step inequality that has a variable on both sides, get the

constant terms on one side and the variable terms on
the other side.
The inequality $-4 \ge x$ can be rewritten as $x \le -4$ .
Solve and graph: $-6x + 7 \ge 8x  \frac{\frac{1}{2} \ge x}{2}$
$-6 -5 -4 -3 -2 -1  0 \\ \frac{1}{2} \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ -6 \\ -6 \\ -6 \\ -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ \frac{1}{2} \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ -5 \\ -4 \\ -5 \\ -6 \\ -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ \frac{1}{2} \\ 1 \\ 2 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 $
2 Solve and graph: $12 - 5x \le 3 - 2x$ <b>x ≥ 3</b>
-4 -3 -2 -1 0 1 2 3 4 5 6 7 8
<b>3</b> Solve and graph: $8 - 2(3 - x) > 16 - (x + 2)$ <b>x</b> > <b>4</b>
-4 -3 -2 -1 0 1 2 3 4 5 6 7 8

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Module 5 Lesson 4

Guided Notes

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