* 8th grade standard

Algebra 1 5.1
Solve linear inequalities by using addition*
Solve linear inequalities by using subtraction*

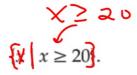
inequality
set builder notation
addition property
subtraction property
whiteboards
triangle puzzles

set-builder notation.

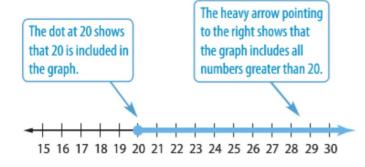
ReadingMath

set-builder notation

 $\{x \mid x \ge 20\}$ is read the set of all numbers x such that x is greater than or equal to 20.

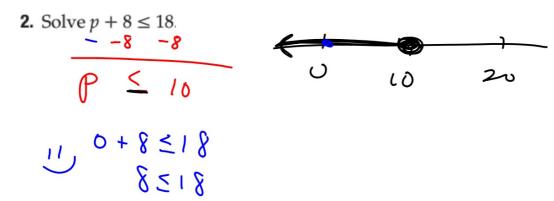






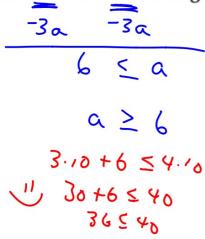
Whiteboards

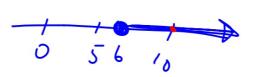
GuidedPractice



Example 3 Variables on Each Side

Solve $\underline{3a} + 6 \le \underline{4a}$. Then graph the solution set on a number line.





Whiteboards

GuidedPractice

Solve each inequality. Then graph

3B.
$$5h \le 12 + 4h$$

$$h \le 12$$

$$5 \cdot 0 \le 12 + 4 \cdot 0$$

$$0 \le 12 + 0$$

$$0 \le 12 + 0$$

triangle puzzle (if time)

What are the 3 options?

ConceptSummary Phrases for Inequalities			
<	>	≤	≥
less than fewer than	greater than more than	at most, no more than, less than or equal to	at least, no less than, greater than or equal to

Real-World Example 4 Use an Inequality to Solve a Problem

PETS Felipe needs for the temperature of his leopard gecko's basking spot to be at least 82°F. Currently the basking spot is 62.5°F. How much warmer does the basking spot need to be?

