* 8th grade standard

Algebra 1 5.1

Solve linear inequalities by using addition*

Solve linear inequalities by using subtraction*

inequality $\leq$ $\geq$

set builder notation

addition property

subtraction property

whiteboards

triangle puzzles (?)

What are the 3 options?

p. 287

~~≠~~ > =

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

$= \quad < \quad >$

Define a variable, write an inequality, and solve each problem. Check your solution.

9. Twice a number increased by 4 is at least 10 more than the number.

11

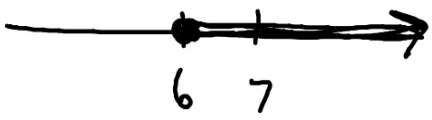
n = a number

$2 \cdot 7 + 4 \geq 7 + 10$

$2n + 4 \geq n + 10$

$-n \quad -4 \qquad -n \quad -4$

$n \geq 6$



Whiteboards Solve + graph.

24. $2a \leq -4 + a$

25. $z + 4 \geq 2z$

$-2 \quad -2$

$4 \geq ?$

26. $w - 5 \leq 2w$

$-5 < w$

27.