$$\{x \mid x \geq 17\}$$

* 8th grade standard

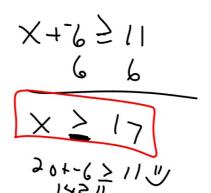
Algebra 1

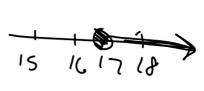
5.1

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.

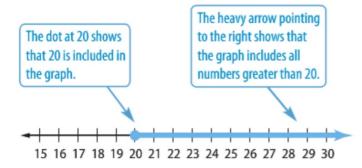
ReadingMath

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.



χ= χ>



What are the 3 options?

ConceptSummary Phrases for Inequalities			
<	>	\leq	2
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

Whiteboards

Solve each inequality. Then graph the solution set on a number line.

1.
$$x - (3 > 7)$$

2.
$$(5 > 7) + y$$

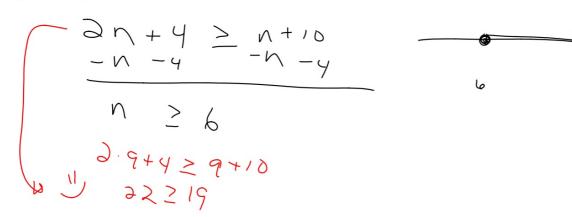
3.

5.

7.

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.



24.
$$2a \le -4 + a$$
 27.

25.
$$z + 4 \ge 2z$$
 $-z$
 $-z$

26.
$$w - 5 \le 2w$$

ICe