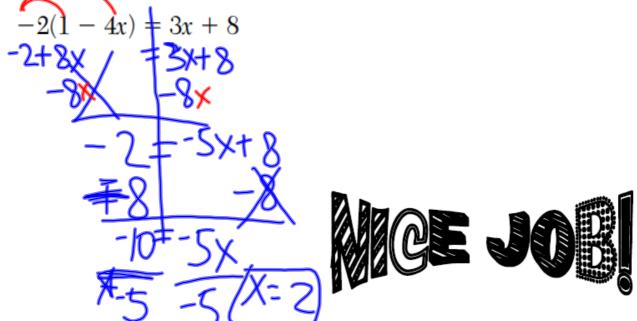
Warm Up: Solve for the exact value of the equation shown below. If

you get a decimal, convert your answer to a fraction. Check your answer!!!



Unit 3: Linear Inequalities & Systems of Equations



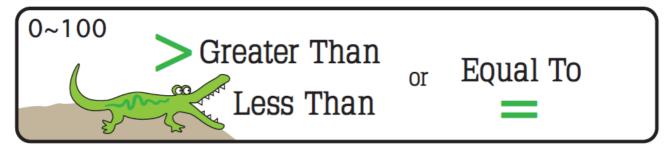
Representing Inequality Solutions

NEQUALITY

inequality—the relation between two expressions that are not equal, contains infinite solutions

Symbolically:

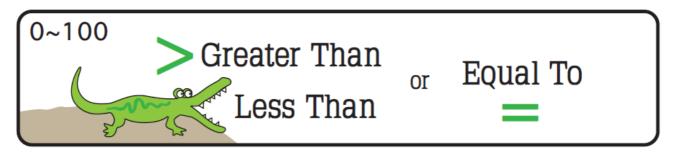
			. /	
SYMBOL:	4	>	<u> </u>	2
MEANING:	Lessthan	Gregter	less than or equal to	greater thank equal to
CIRCLE:	Lesso	○ → →		6
INTERVAL NOTATION:	(#,#)	(#,#)	[#,#]	[#,#]



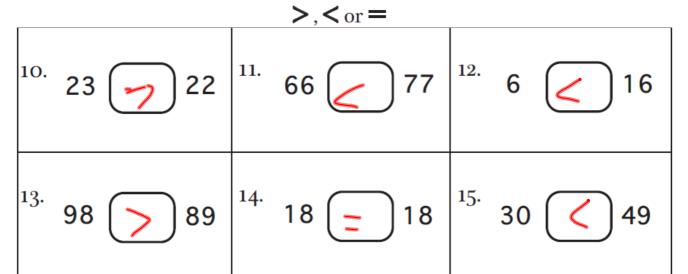
Write in the symbol that makes the problem true.



1. 35 🔼 52	^{2.} 40 2 74	^{3.} 45 30
4. 84 > 77	5. 38 64	6. 51 > 39
^{7.} 43 (8. 79 > 28	9. 99 > 89

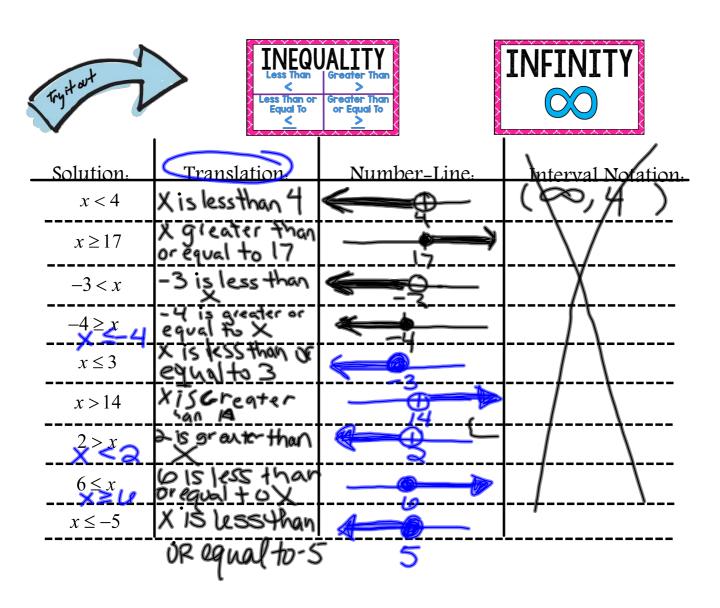


Write in the symbol that makes the problem true.



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Plot the inequalities on a number line. Then, list the first three numbers that satisfy each inequality.

	· ·	_	
<i>x</i> > 5	<i>x</i> < 2	<i>x</i> ≤ −1	<i>x</i> ≥ 12
<	< 	<	<

Tear off and complete the exit ticket at the end of the packet!!!



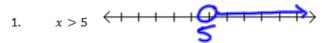


Score: ____/20

EXIT TICKET

(Graphing Inequalities on Number Lines)

tear this page off and turn it in before you leave class today a) Graph the given inequality on the number line.



- 2. $a \leq 3$
- 3. z > -4
- 4. $b \ge 12 \longleftrightarrow \longleftrightarrow \longleftrightarrow \longleftrightarrow$
- 6. $r \leq -6$
- 7. t > -1
- 8. x < -5
- 9. $x \ge 0$ \longleftrightarrow
- 10. x > -2