Chapter #9 Linear Inequalities

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9.1 Representing Inequalities

Inequality - a mathematical statement company expressions that may not be equal - can be written using the symbols

< , > , < , > , ≠

VERBALLY using words

Irequality	meaning
a > b	a is greater than b
a < b	a is less than b
a ≥ b	a is greater than or equal to b
$a \in b$	a is less than or equal to b
$a \pm b$	a is not equal to b

GRAPHICALLY Using a # line

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Inequality	SYMBOL
——————————————————————————————————————	of means the point
> or <	use o on the # 15 NOT included
	in the solution!
フ or <	Use on the # # means the point is included in the
	is included in the
> or >	use -> right amon solution
Í	J
< ov <	use - left arrow

Ex. #1 Graph each inequality

solutions for m can be... -2,-3,-4... # Not -1 itsey



