

Circle solutions to the following two inequalities

$4x \geq 8$	-5	-4	-3	-2	-1	0	1	2	3	4	5
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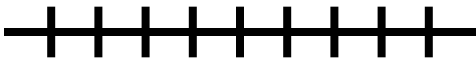
$-4x \geq 8$	-5	-4	-3	-2	-1	0	1	2	3	4	5
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Plot the following inequalities below. Then perform the change, re-plot the new inequality, and state if the new inequality is true.

$2 < 5$

Add 1 to both sides:

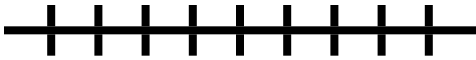
Still true: Y/N



$-2 < 5$

Add 1 to both sides:

Still true: Y/N



$2 < 5$

Subtract 1 from both sides:

Still true: Y/N



Solve and graph these inequalities:

$x + 3 > 10$

$x - 4 \leq 6$

$6 > x + 8$

$2 < 4$

Multiply both sides by 2:

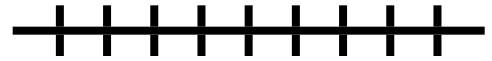
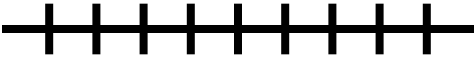
Still true: Y/N



 $-2 < 4$

Divide both sides by 2:

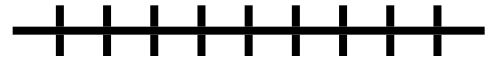
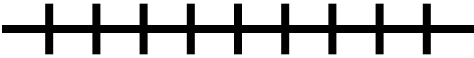
Still true: Y/N



 $1 < 2$

Multiply both sides by -2:

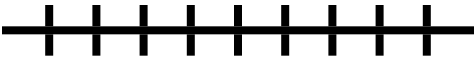
Still true: Y/N



 $2 < 4$

Divide both sides by -2:

Still true: Y/N



Solve and graph these inequalities

$3x - 7 < 8$

$-\frac{1}{4}(p - 12) > -12$

$6x - 7 > 2x + 17$

CAR WASH Use the sign shown. A gas station charges \$.10 less per gallon of gasoline if a customer also gets a car wash. What are the possible amounts (in gallons) of gasoline that you can buy if you also get a car wash and can spend at most \$20?

