

guided notes

NAME _____

DATE _____

Module 6 Solving Absolute Value Equations and Inequalities

Lesson 3 Solving Inequalities Using “Absolute Value is Less Than”

Lesson Objective

- Solve inequalities containing the absolute value expression “is less than” or the absolute value expression “is less than or equal to.”

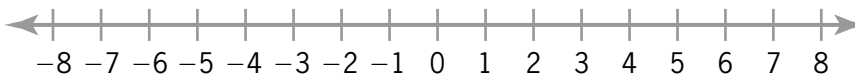
The absolute value of x is the _____ from _____ to x .

The inequality $|x| < 5$ is equivalent to the _____ $-5 < x < 5$.

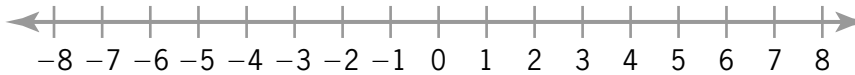
The absolute value of an expression _____ be less than zero.

Solve and graph.

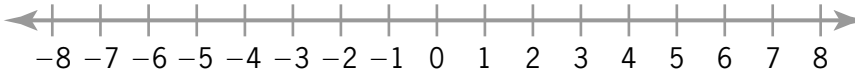
1 $|c| \leq 4$



2 $|4p| < 20$



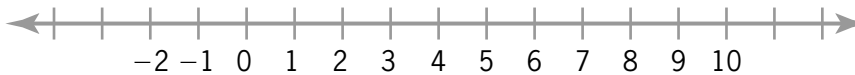
3 $|k + 8| < -10$



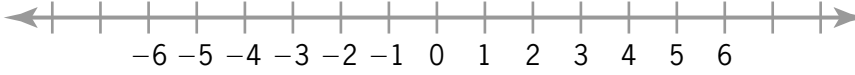
4 $|x + 2| \leq 0$



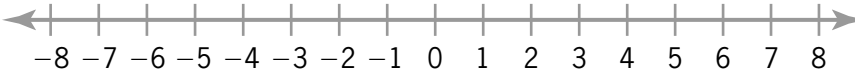
5 $1 \geq |2 - \frac{x}{3}|$



6 $4 + 4|x| < 20$



7 $5 + |7j - 2| \leq 3$



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