"I Can Solve an Inequality for a Variable and Graph the Solution Set on a Number Line."

## Solving Inequalities

Is the given value a solution to the inequality?

2 Methods:

Substitution 
$$x-6 \ge 8$$
  $x=10$ ? Using Inverse Operations  $x-6 \ge 8$   $x=20$ ?

Solve the Following Inequalities and Determine Which Values are In the Solution Set

$$x + 5 \le 8$$

$$\frac{p}{4} > 7$$

$$3 < c - 9$$

$$4x + 8x \ge 36$$

$$1 \le 12 + x - 20$$

$$7x-5>2$$

Can  $x = \{2, 4, 15, 27, 32, 45\}$ 

$$|x + 5x - 3x| \ge 19 - 7$$

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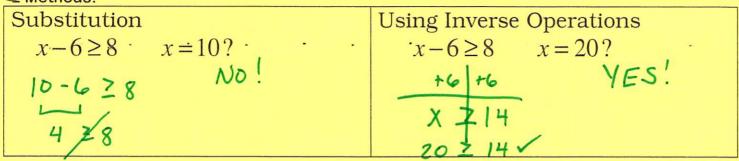
$$|x + 5x - 3x| \ge 19 - 7$$

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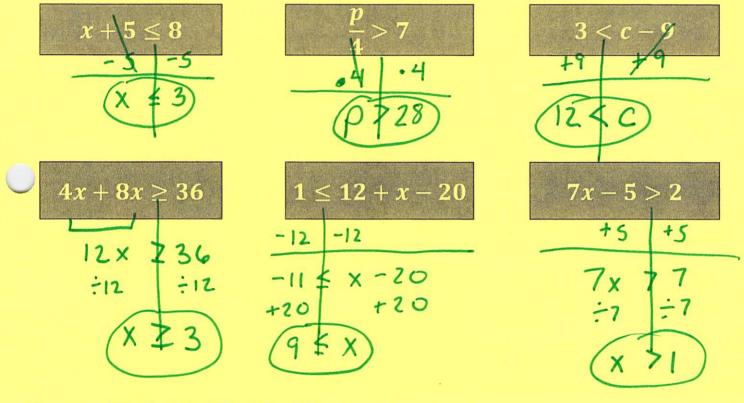
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Methods:



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