



## Multi Step Equations

Name: \_\_\_\_\_

Date: \_\_\_\_\_



Draw a graph for each inequality.

1)  $2x + 3 + 5x \geq -5x - 9$

2)  $\frac{x+4}{2} < 6$

3)  $3(x - 5) \leq -6$

4)  $\frac{6x-4}{10} > 2$

5)  $2x + 3 - 3x \geq -5x - 13$

6)  $6(x + 5) > 36$

7)  $2(x + 5) > 22$

8)  $-x - 9 + 4x \geq x + 7$

9)  $\frac{2x+8}{8} > 2$

10)  $\frac{5x+15}{5} > 8$



QUIZ ?

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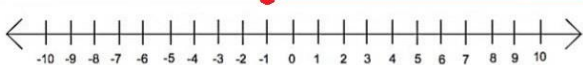
## Multi Step Equations

## Answers

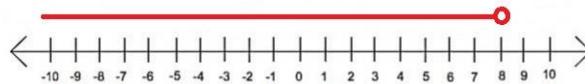


Draw a graph for each inequality.

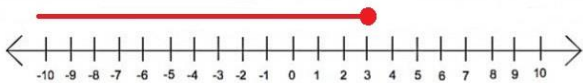
1)  $2x + 3 + 5x \geq -5x - 9 \Rightarrow x \geq -1$



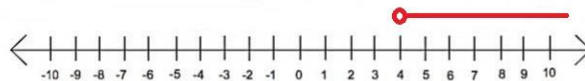
2)  $\frac{x+4}{2} < 6 \Rightarrow x < 8$



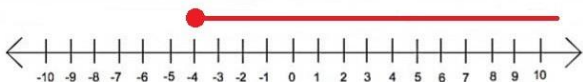
3)  $3(x - 5) \leq -6 \Rightarrow x \leq 3$



4)  $\frac{6x-4}{10} > 2 \Rightarrow x > 4$



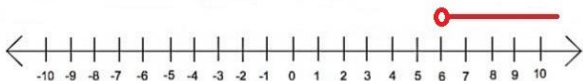
5)  $2x + 3 - 3x \geq -5x - 13 \Rightarrow x \geq -4$



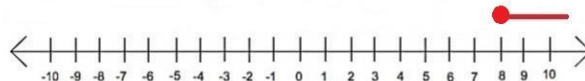
6)  $6(x + 5) > 36 \Rightarrow x > 1$



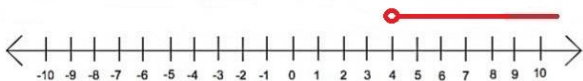
7)  $2(x + 5) > 22 \Rightarrow x > 6$



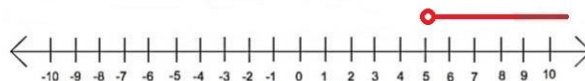
8)  $-x - 9 + 4x \geq x + 7 \Rightarrow x \geq 8$



9)  $\frac{2x+8}{8} > 2 \Rightarrow x > 4$



10)  $\frac{5x+15}{5} > 8 \Rightarrow x > 5$



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