

Name _____

Date _____

Year Group _____

Solve for the absolute value inequality

1. $|x - 4| \leq 1$

Case 1

 $|x - 4| \leq 1$
 $x - 4 \leq 1$ Drop absolute value signs
 $x \leq \underline{\hspace{2cm}}$ Add 2 to both sides

Case 2

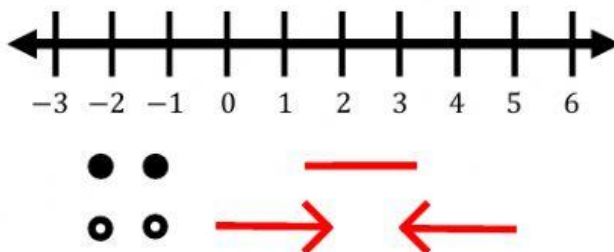
 $|x - 4| \geq -1$ **Flip the inequality**
 $x - 4 \geq -1$ Drop absolute value signs
 $x \geq \underline{\hspace{2cm}}$ Add 2 to both sides

Graph the absolute value inequality – Drag the pieces to the correct spot
Put the red line(s) above the number line

Extra Circles

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Extra Lines

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2. $|x - 3| \geq 3$

Case 1

 $|x - 3| > 3$
 $x - 3 > \underline{\hspace{2cm}}$ Drop absolute value signs
 $x > \underline{\hspace{2cm}}$ Add 2 to both sides

Case 2

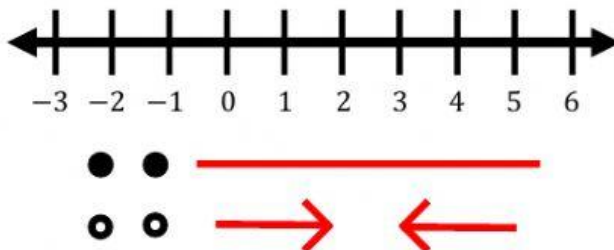
 $|x - 3| \underline{\hspace{1cm}} \underline{\hspace{1cm}}$ **Flip the inequality**
 $x - 3 \underline{\hspace{1cm}} \underline{\hspace{1cm}}$ Drop absolute value signs
 $x \underline{\hspace{1cm}} \underline{\hspace{1cm}}$ Add 2 to both sides

Graph the absolute value inequality – Drag the pieces to the correct spot
Put the red line(s) above the number line

Extra Circles

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Extra Lines

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