

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

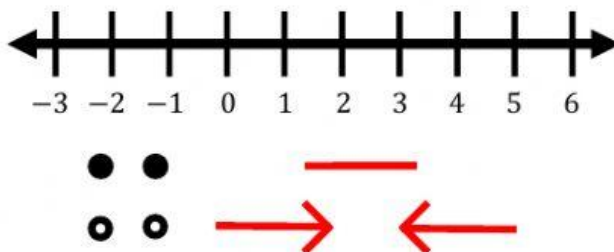
$$x \geq \underline{\hspace{2cm}}$$
 Add 2 to both sides

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

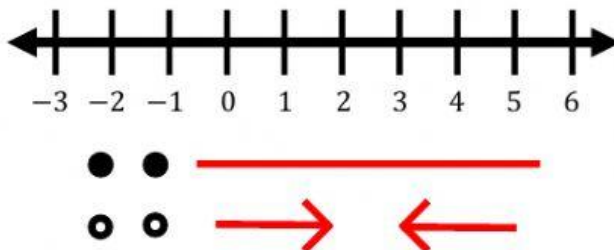
$$x \underline{\hspace{1cm}} \underline{\hspace{1cm}}$$
 Add 2 to both sides

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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