

NAME _____

Date _____ Period _____

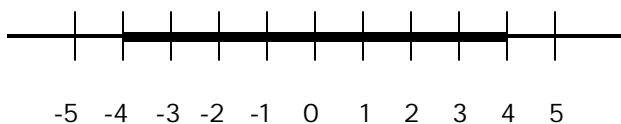
Section 2.2

ALGEBRA

Compound Inequalities: Practice B

Directions: Look at the graph and then write the compound inequality for that graph.

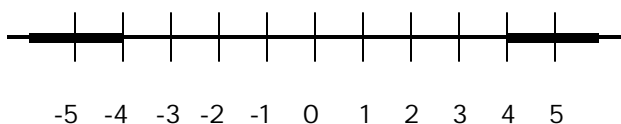
1.



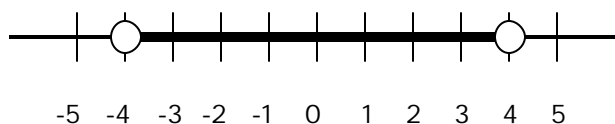
2.



3.



4.



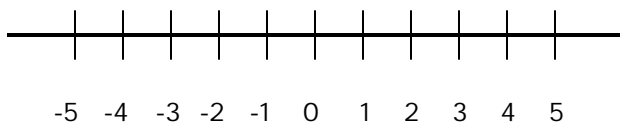
Directions: Solve the compound inequalities below.

5. $2x + 4 = 6$ or $2x - 2 > 14$

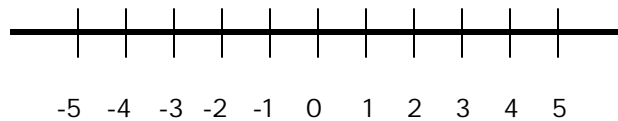
6. $-4x < -4$ and $3x = 9$

In the graphs below, determine the number of integer solutions:

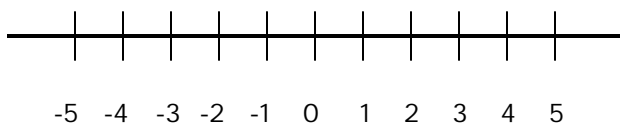
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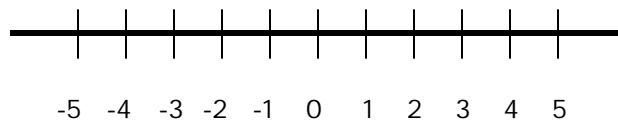
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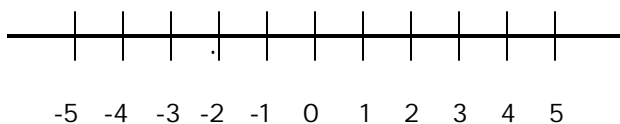
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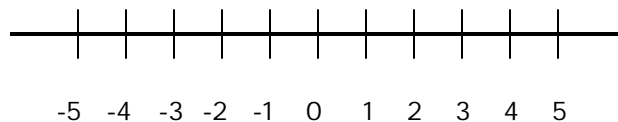
9.



10.



11.



12) Solve the compound inequality below and choose its graph on the right

$$4x - 2 = 10 \quad \text{and} \quad 9x - 5 = 4$$

- A)

A horizontal number line with tick marks at 1 and 3. Thick black segments are drawn at the far left and far right ends of the line, representing the solution set $x < 1$ or $x > 3$.
- B)

A horizontal number line with tick marks at 1 and 3. Open circles are drawn at 1 and 3, with arrows pointing outwards from these circles, representing the solution set $x < 1$ or $x > 3$.
- C)

A horizontal number line with tick marks at 1 and 3. A thick black segment is drawn between 1 and 3, representing the solution set $1 < x < 3$.
- D)

A horizontal number line with tick marks at 1 and 3. Open circles are drawn at 1 and 3, and a thick black segment is drawn between these circles, representing the solution set $1 < x < 3$.