

Name:

Date:

Period:

Graphing Compound Inequalities in the Form of "and"

The solution occurs when **both** inequalities are true at the same time

Graphing Compound Inequalities in the Form of "or"

The solution occurs when **either** of the inequalities is true

On a separate sheet of paper, solve each compound inequality and graph on the corresponding number line on the back.

1. $m - 2 < -8$ or $\frac{m}{8} > 1$

3. $2x < 10$ or $\frac{x}{2} \geq 3$

5. $-3 \leq \frac{p}{2} < 0$

7. $7v - 5 \geq 65$ or $-3v - 2 \geq -2$

9. $-1 + 5n > -26$ and $7n - 2 \leq 12$

11. $8x + 8 \geq -64$ and $-7 - 8x \geq -79$

13. $-36 < 3p - 6 < -15$

15. $3n + 2 < -2 + 7n$ or $8n - 4 \leq 3n - 4$

17. $5x - 5 > -7x - 5$ or $3x + 5 \leq x - 1$

19. $4b + 18 \leq -12b - 14 \leq 14 - 5b$

2. $-1 < 9 + n < 17$

4. $x + 8 \geq 9$ and $\frac{x}{7} \leq 1$

6. $r + 5 \geq 12$ or $\frac{r}{9} < 0$

8. $-10b + 3 \leq -37$ or $3b - 10 \leq -25$

10. $-50 < 7k + 6 < -8$

12. $2n + 7 \geq 27$ or $3 + 3n \leq 30$

14. $-1 - 10a < -1$ or $10 + 3a \leq -5$

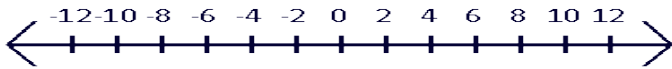
16. $8r - 5 \geq 6r - 1$ or $4 + 4r \leq 3r - 3$

18. $6 + 7m < 6m - 5$ or $3m - 7 < 5 + 6m$

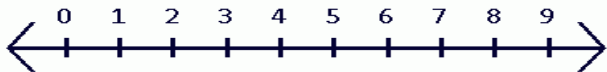
20. $5v + 10 \leq -4v - 17 < 9 - 2v$

After solving each problem from the other side, graph your answer on the corresponding number line.

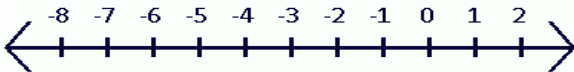
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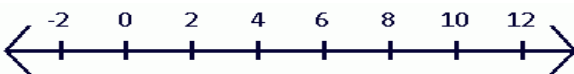
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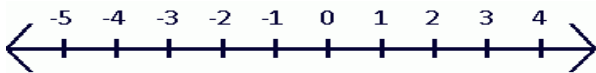
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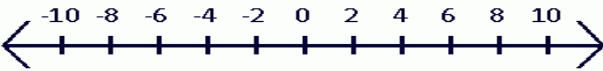
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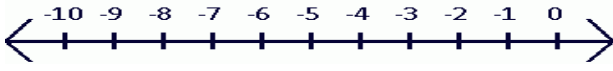
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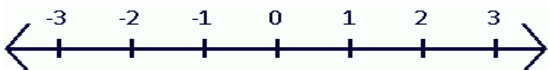
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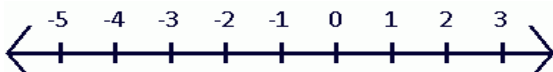
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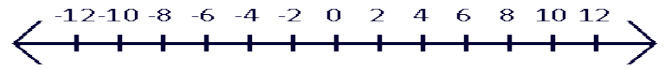
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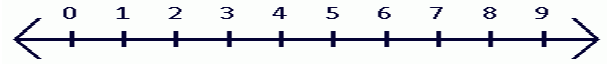
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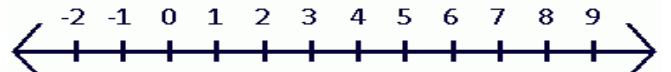
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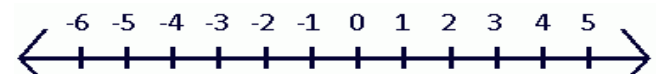
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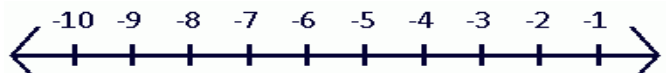
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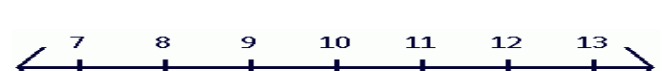
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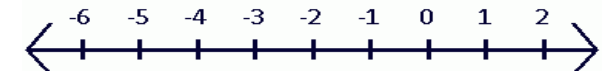
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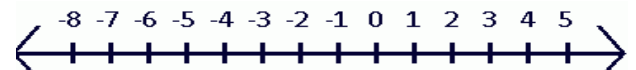
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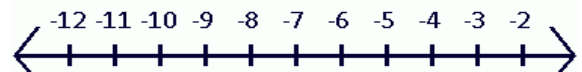
14.



16.



18.



20.

