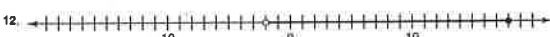
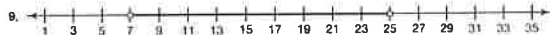
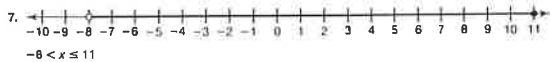


2.5 Skills Practice (20 pts)

Write an inequality for each graph.

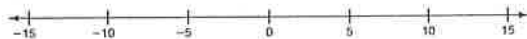


Graph each inequality.

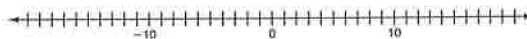
13. $45 < x < 75$



14. $-5 < x < 5$



15. $-13 \leq x \leq 5$



34. $4 \leq 2x + 2 < 12$

2



35. $x + 5 > 14$ or $3x < 9$



36. $-5x + 1 \geq 16$ or $x - 6 \leq -8$



Name _____ Date _____

37. $28 \leq \frac{7}{8}x < 42$

2



38. $-2x + 5 < 9$ or $-x - 13 > -31$



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17. $|3x + 1| = -9$

2

18. $|5x + 1| = 14$

Solve each linear absolute value equation.

19. $|x - 8| = 25$

$|x| - 8 = 25$

$|x| - 8 + 8 = 25 + 8$

$|x| = 33$

$x = 33$

$-(x) = 33$

$x = -33$

20. $|x + 3| - 7 = 40$

21. $2|x - 6| = 48$

22. $3|x + 8| = 36$

2

23. $5|x| + 4 = 79$

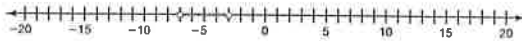
24. $2|x| - 5 = 11$

Solve each linear absolute value inequality. Graph the solution on the number line.

25. $|x + 5| < 2$

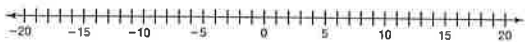
$$\begin{aligned} x + 5 &< 2 \\ x + 5 - 5 &< 2 - 5 \\ x &< -3 \end{aligned}$$

$$\begin{aligned} -(x + 5) &< 2 \\ x + 5 &> -2 \\ x + 5 - 5 &> -2 - 5 \\ x &> -7 \end{aligned}$$

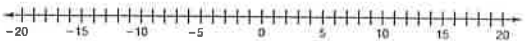


29. $2|x - 1| - 8 \leq 10$

2



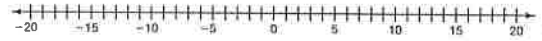
30. $3|x + 2| + 5 \geq 23$



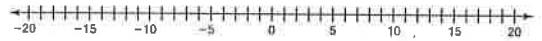
Name _____ Date _____

26. $|x - 3| \leq 6$

2



27. $2|x - 1| < 14$



28. $3|x + 4| \geq 9$

