Name _____

Topic 1 Review

Solve each.

1. $n - 8 = -7$
2. $m + 23 = 7$
3. $x + 16 = -82$
4. $w - 63 = 82$
5. $c + 2.3 = 6$
6. $d - 8.3 = 7.18$
7. $h - 2.1 = -3.2$
8. $f + 2.8 = -3.92$
9. $a - \frac{2}{3} = 5$
10. $b + \frac{6}{7} = \frac{1}{3}$
11. $g - \frac{1}{5} = \frac{4}{7}$
12. $4x > -100$
13. $-17x = -68$
14. $\frac{2}{9}x = 10$
15. $\frac{-3}{4}x = 5$
16. $4x + 3 = 43$
17. $-3y + 2 < 7$
18. $14a - 8 = 20$
19. $\frac{8}{9}x - 17 = -1$
20. $\frac{3}{10}y - 121 = 5$
21. $2(8x - 7) > 18$
22. $-3(2y - 5) = -9$
23. $-5(11x + 3) = 40$
24. $6x + 11 = 3x - 22$
25. $12 - 7x < 11x + 30$
26. $5y - 1 = -16y + 41$
27. $5 + 6x + 3 = 2(7x - 4)$
28. Solve for l: $V = 2\pi r^2 + 2\pi rl$
29. Solve for x: $ax + 4 = 7$
30. Solve for x: $bx + a = 12$

Write an equation to describe the situation and solve.

31. The sum of three consecutive even integers is 72. What are the three numbers?

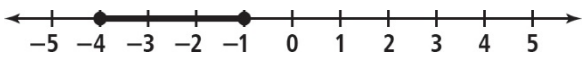
32. The sum of three consecutive integers is -9. What are the three numbers?

33-35 Solve and graph on a number line and write the answer in interval notation.

33. $-2(x-3)-4 \geq 3x-5(x-1)$ 34. $-2x+5(x-2) > 7x-6$

35. $2(x-2)+7 > -1$ and $5-4x > 9$

36. Write the compound inequality for the graph.



Review:

37. $51 - (-42) =$ ____ 38. $-105 \div 5 =$ ____ 39. $\frac{5}{6} - \frac{3}{8} =$ ____

40. $36 \div 9 \cdot 2 - 5 + 6$ 41. $4^2 - 5(2 - 4 \cdot 3)$ 42. $83.801 - 62.3 =$ ____

43. Evaluate $3x - y^2$, when $x = -5$ and $y = -3$ 44. $(3x^2 - 4x + 5) - (5x^2 - 7)$