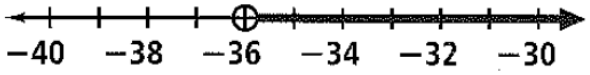
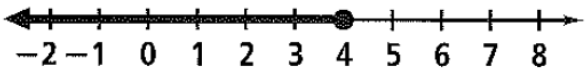
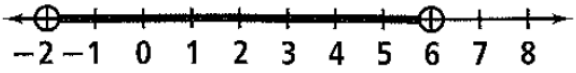
1a. yes **1b.** yes **1c.** no **2a.** no **2b.** yes **2c.** yes
3. $x < 25$ **4.** $x > 12$ **5.** $x \geq 3.50$ **6.** $x > 10$
7. $x > -2$ **8.** $x \leq 3$ **9.** $x \geq -1.5$ **10.** $x > \frac{1}{2}$
11. $x > -36$;



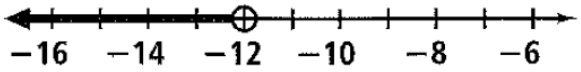
12. $y \leq 4$;



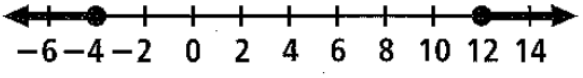
13. $-2 < h < 6$;



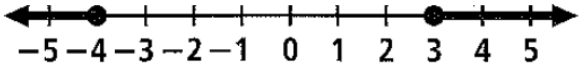
14. $a < -12$;



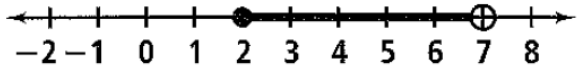
15. $a \geq 12$ or $a \leq -4$;



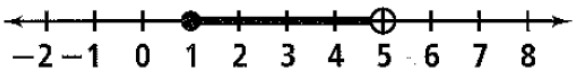
16. $m \leq -4$ or $m \geq 3$;



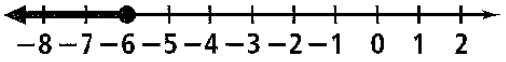
17. $2 \leq t < 7$;



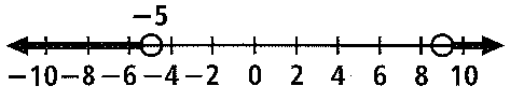
18. $1 \leq x < 5$;



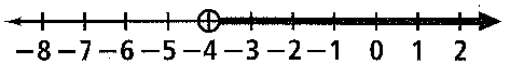
19. $y \leq -6$;



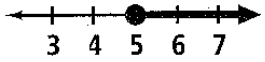
20. $r > 9$ or $r < -5$;



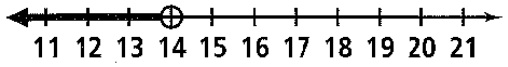
21. $k > -4$;



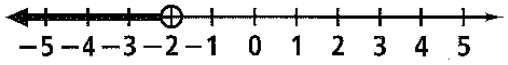
22. $z \geq 5$;



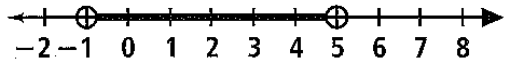
23. $x < 14$;



24. $y < -2$;



25. $-1 < d < 5$;



26. $y > 7$ **27.** $x \leq -5$ **28.** $a > \frac{10}{3}$ **29.** $x \geq -1.2$
30. Subtract 4 from each side to get $|x| < 5$. Remove absolute values signs by writing as the compound inequality $x < 5$ and $x > -5$. **31.** $x \geq 1$ or $x \leq -2$
32. $-3 < x < 1$ **33.** $x = 8$ or $x = -2$
34. $x = 4$ or $x = -\frac{4}{3}$ **35.** $c = 4$ or $c = -\frac{18}{5}$
36. $y = 2$ or $y = 14$
37. No such situation exists; inequality is false.
38. $15x - 30 \geq 40$; 5 lawns
39. $6x - 75 > 135$; 36 bird feeders
40. $|x - 13.05| \leq 0.015$; between 13.035 and 13.065 mm, inclusive **41.** B