



Solve the Inequalities and graph.

1. $e - 7 \geq 21$

2. $0 \leq l + 27$

3. $z - 19 \neq 14$

4. $24 \geq n + 17$

5. $.75 - b < -.35$

6. $21t \leq 3$

7. $20 \leq .5x$

8. $10w \geq 43$

9. $-45 \neq 15b$

10. $-\frac{1}{2} > \frac{g}{5}$

Solve the Inequalities.

11. $-45 < -15 - 10n$

24. $5z - 3 - 4z > 5z + 4z - 11$

12. $-15 - 7b < -75$

25. $7r - 5 + 14 \leq 3r + 7 - 4r$

13. $40 - 18r \geq -92$

26. $.8 + .2k + .15 < .5k - .3 + .2k$

14. $18 \leq 37 + 19z$

27. $2.5 + 3.5b + 1.8 \geq 3 + 7 - 2.5b$

15. $8p + 10 \geq 10$

28. $.75h + .25 + 1 \leq 5h + 4h + 10$

16. $1.5 \leq .75w + 1.5$

29. $30(3y - 5) > 92y - 10$

17. $10 > -8m + 10$

30. $23g - 34 \geq 11(2g - 5)$

18. $-7c + 14 > 21$

31. $7 - 1(3t + 2) > 7t - 25$

19. $8w + 10 - 14w > 14$

32. $8 < 11x - 4(8 + 4x)$

20. $9 \geq 8z - 7 + 10z$

33. $4(3 - 4j) \leq 4(j + 8)$

21. $20 \geq 15p + 9 + 4p - 8$

34. $\frac{1}{3}(12c - 24) \neq 2(20 - 5c)$

22. $9t - 21 > 11t + 3$

23. $15y + 18 > 12y + 14$

35. $2a(50a) \neq 10a(10a + 9) + 10$

Solve the Compound Inequalities and graph the solutions.

36. $y < 5$ and $y > 3$

37. $t > -5$ and $t < -3$

38. $-10 \leq x \leq -3$

39. $5 < e - 7 < 8$

40. $30 \geq x + 24 \geq 4$

41. $y + 4 > 9$ and $y - 3 < 9$

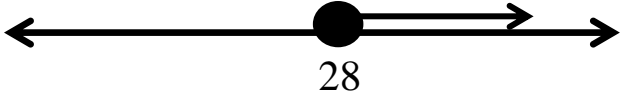
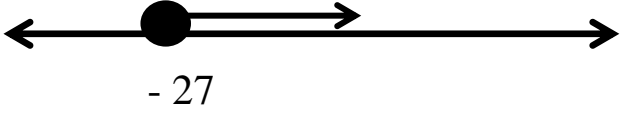
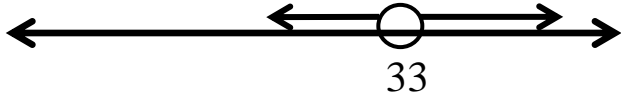
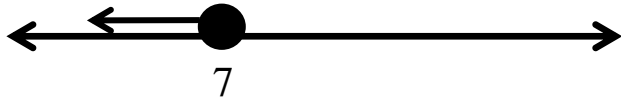
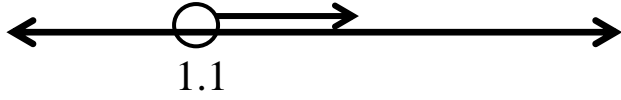
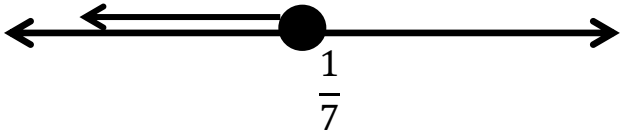
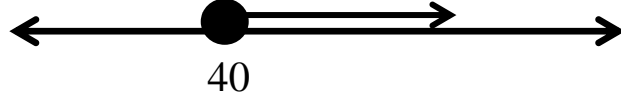
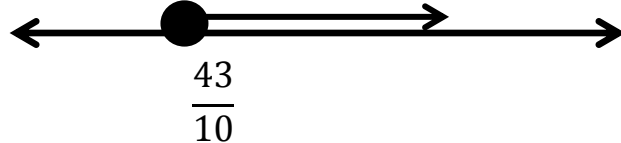
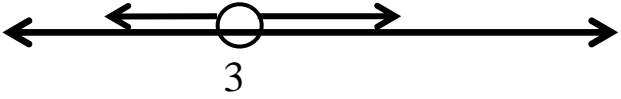
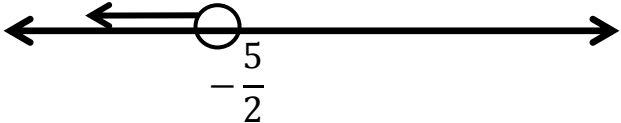
42. $z - 5 < 8$ or $z + 3 > 17$

43. $8 - 9e \geq 30$ and $5e + 18 > -41$

44. $-7 < 4y - 5 \leq 25$

45. $53 < 5 - 4t < 14$

Answer Key

1. $e - 7 \geq 21$ $x \geq 28$

2. $0 \leq l + 27$ $l \geq -27$

3. $z - 19 \neq 14$ $z \neq 33$

4. $24 \geq n + 17$ $n \leq 7$

5. $.75 - b < -.35$ $b > 1.1$

6. $21t \leq 3$ $t \leq \frac{1}{7}$

7. $20 \leq .5x$ $x \geq 40$

8. $10w \geq 43$ $w \geq \frac{43}{10}$

9. $-45 \neq 15b$ $b \neq 3$

10. $-\frac{1}{2} > \frac{g}{5}$ $g < -\frac{5}{2}$


11. $-45 < -15 - 10n$ $n < 3$

24. $5z - 3 - 4z > 5z + 4z - 11$ $z < 1$

12. $-15 - 7b < -75$ $b > \frac{60}{7}$

25. $7r - 5 + 14 \leq 3r + 7 - 4r$ $r \leq -\frac{1}{4}$

13. $40 - 18r \geq -92$ $r \leq \frac{22}{3}$

26. $.8 + .2k + .15 < .5k - .3 + .2k$ $k > 2.5$

14. $18 \leq 37 + 19z$ $z \geq -1$

27. $2.5 + 3.5b + 1.8 \geq 3 + 7 - 2.5b$ $b \geq 0.95$

15. $8p + 10 \geq 10$ $p \geq 0$

28. $.75h + .25 + 1 \leq 5h + 4h + 10$ $h \geq -\frac{9}{8}$

16. $1.5 \leq .75w + 1.5$ $w \geq 0$

29. $30(3y - 5) > 92y - 10$ $y < -70$

17. $10 > -8m + 10$ $m > 0$

30. $23g - 34 \geq 11(2g - 5)$ $g \geq -21$

18. $-7c + 14 > 21$ $c < -1$

31. $7 - 1(3t + 2) > 7t - 25$ $t < 3$

19. $8w + 10 - 14w > 14$ $w < -\frac{2}{3}$

32. $8 < 11x - 4(8 + 4x)$ $x < -8$

20. $9 \geq 8z - 7 + 10z$ $z \leq \frac{8}{9}$

33. $4(3 - 4j) \leq 4(j + 8)$ $j \geq -1$

21. $20 \geq 15p + 9 + 4p - 8$ $p \leq 1$

34. $\frac{1}{3}(12c - 24) \neq 2(20 - 5c)$ $c \neq \frac{24}{7}$

22. $9t - 21 > 11t + 3$ $t < -12$

35. $2a(50a) \neq 10a(10a + 9) + 10$ $a \neq -\frac{1}{9}$

23. $15y + 18 > 12y + 14$ $y > -\frac{4}{3}$

