



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.  $-45 < -15 - 10n$

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

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

14.  $18 \leq 37 + 19z$

15.  $8p + 10 \geq 10$

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

17.  $10 > -8m + 10$

18.  $-7c + 14 > 21$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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  $y - 3 < 9$

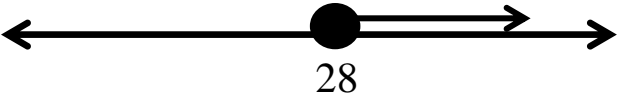
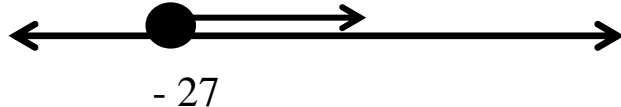
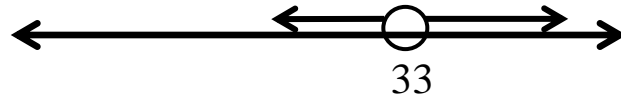
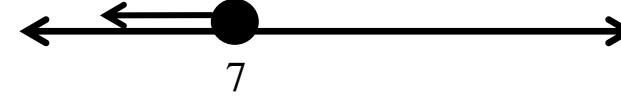
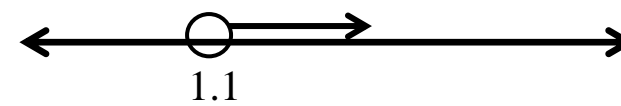
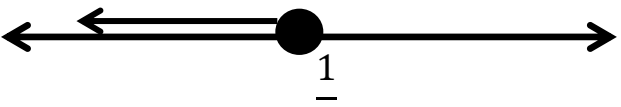
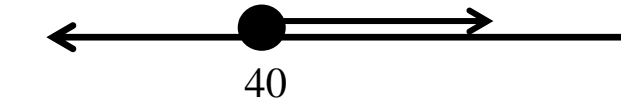
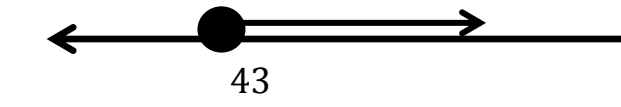
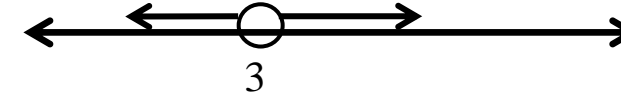
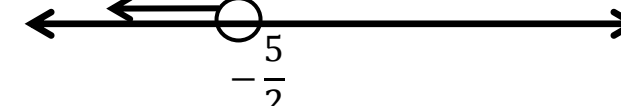
42.  $z - 5 < 8$  or  $z + 3 > 17$

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.  $\frac{1}{3}(12c - 24) \neq 2(20 - 5c)$   $c \neq -8$

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

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

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

