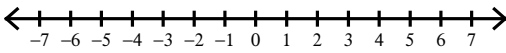


## Review Sheet: Inequalities

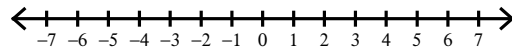
Date \_\_\_\_\_

**Draw a graph for each inequality.**

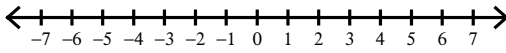
1)  $-v \leq -3$



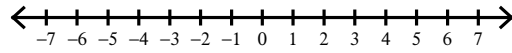
2)  $x > 4$



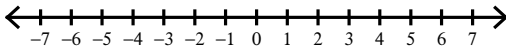
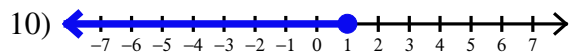
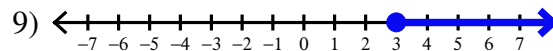
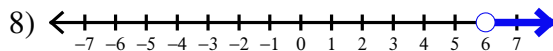
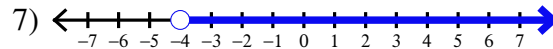
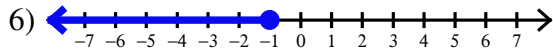
3)  $m \geq -6$



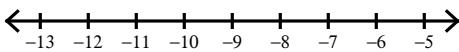
4)  $k \geq -3$



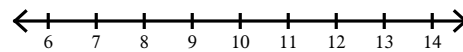
5)  $x > 0$

**Write an inequality for each graph.****Solve each inequality and graph its solution.**

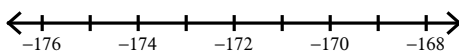
11)  $-2x > 18$



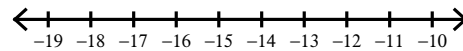
12)  $13 - p > 2$



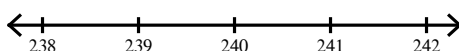
13)  $\frac{m}{9} < -19$



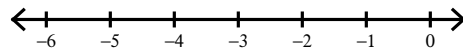
14)  $300 \geq -20n$



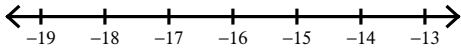
15)  $20 < \frac{r}{12}$



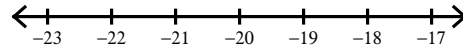
16)  $14 \leq x + 17$



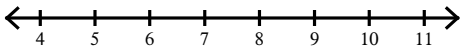
$$17) -18 < n + (-3)$$



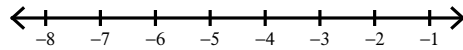
$$18) -15 + b \geq -34$$



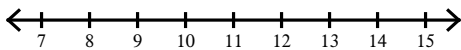
$$19) 4 \leq v - 5$$



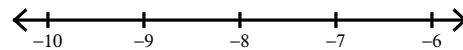
$$20) x - (-7) > 4$$



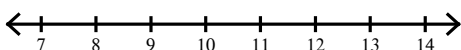
$$21) 0 < -1 + \frac{n}{12}$$



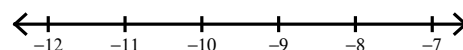
$$22) -10 \leq \frac{a}{8} - 9$$



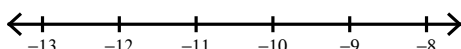
$$23) -3 > -4 + \frac{k}{9}$$



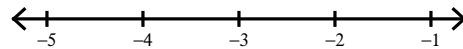
$$24) -7 \geq \frac{-4 + p}{2}$$



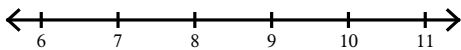
$$25) \frac{7 + x}{-2} \geq 2$$



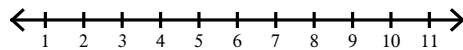
$$26) 3 + 7m \leq -18$$



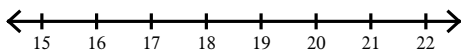
$$27) -4n - 1 < -37$$



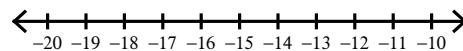
$$28) 2(-7 + x) > -2$$



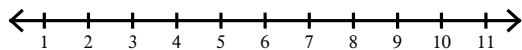
$$29) -69 \leq -1 - 4r$$



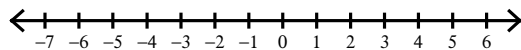
$$30) 2(4 + n) > -22$$



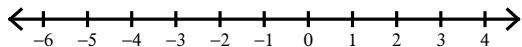
$$31) |b - 5| \geq 1$$



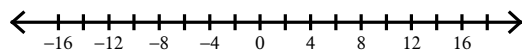
$$32) |-2r| \leq 10$$



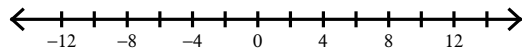
$$33) |4x| < -12$$



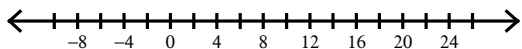
$$35) \left| \frac{a}{3} \right| \leq 5$$



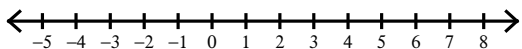
$$37) 8 + \left| \frac{v}{10} \right| \geq 9$$



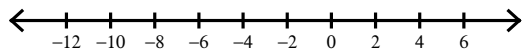
$$39) -7 + |k - 8| \leq 10$$



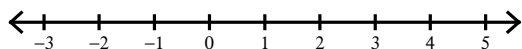
$$41) 10|-4x - 8| + 2 \leq -38$$



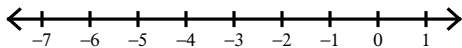
$$43) 8 + 4|-9 - 3n| < 92$$



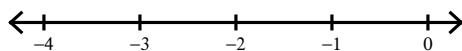
$$45) 9|9m - 9| + 6 > 87$$



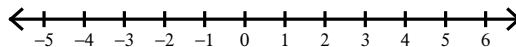
$$47) -3(v - 3) - 6 \geq 12$$



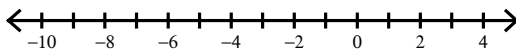
$$49) -7(2 + 5n) + 1 \geq 57$$



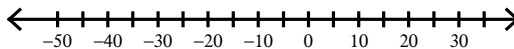
$$34) |-3n| \geq -21$$



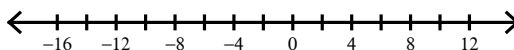
$$36) -4|x + 3| \geq -20$$



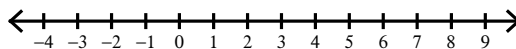
$$38) \frac{|9 + x|}{8} \geq 5$$



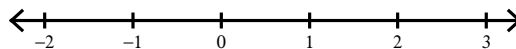
$$40) \frac{|n + 2|}{4} < 3$$



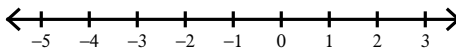
$$42) 2|-7p + 9| + 3 > 41$$



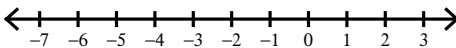
$$44) 8 + 5|6r - 9| \leq 23$$



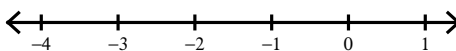
$$46) -4(b + 6) \geq -16$$



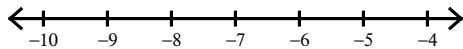
$$48) 8(-3x - 2) \geq 32$$



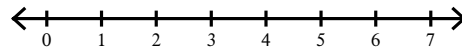
$$50) 2(-4 + a) \geq -12$$



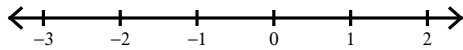
51)  $-2(1 + 7v) + 7(8 + 3v) \geq 12$



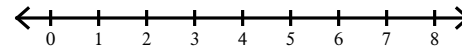
52)  $12 > -5(4 - 6x) + 4(1 - 4x)$



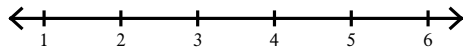
53)  $-3 \geq 4(6x - 6) - 5(x - 8)$



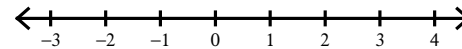
54)  $25 > -3(n - 1) - 2(3 - 5n)$



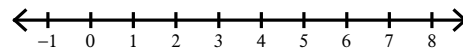
55)  $37 \leq 5(8 + k) - 6(3k - 6)$



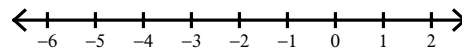
56)  $6 - 3p > -2 + 8(5p + 1)$



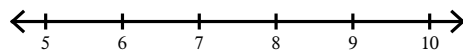
57)  $-(n + 4) < 3n - 20$



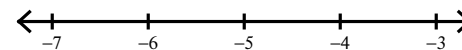
58)  $-17 + 8x \geq 5(7x + 2)$



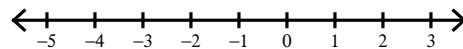
59)  $-2 + 5(m + 2) < m + 36$



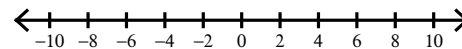
60)  $7(1 + r) < -33 - r$



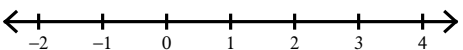
61)  $-2n - 2(3n + 2) \geq -4(1 + 7n)$



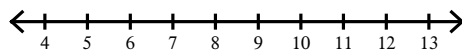
62)  $-2(1 - 2b) \geq -8b - 4(-2 - 3b)$



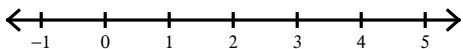
63)  $-v - 6(-8v + 8) > -4v - (5 - 8v)$



64)  $-4(x - 6) > 3x - (5x - 6)$

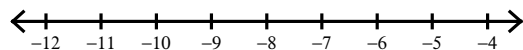


65)  $-4x + 4(3 - 5x) \leq -6(6x - 8)$

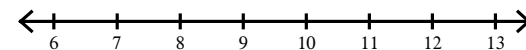


**Solve each compound inequality and graph its solution.**

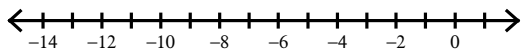
66)  $-6 \leq x + 4 \leq -3$



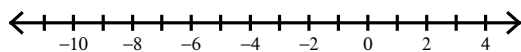
67)  $7n > 63$  and  $n + 9 > 4$



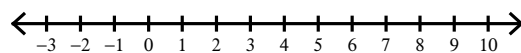
68)  $v + 10 < 1$  or  $v + 5 > 3$



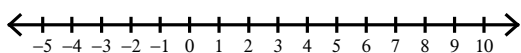
70)  $9x < 27$  and  $-2 + x \geq -11$



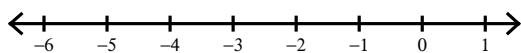
72)  $4 < 6 + 2n < 24$



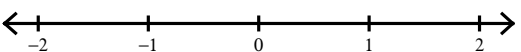
74)  $7k - 3 \geq 46$  or  $7 + 9k < -2$



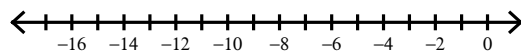
76)  $4 + 3m > 1 + 2m$  and  $6m - 7 > 7m - 7$



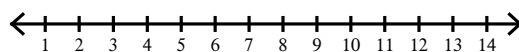
78)  $8x + 7 \leq 4x + 7$  or  $5 + 3x < -8 + 2x$



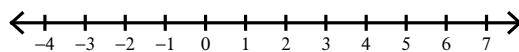
80)  $5n - 10 < 10n + 5$  or  $4n - 7 > 5n + 6$



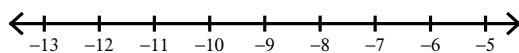
69)  $\frac{b}{10} \geq 1$  or  $b + 1 \leq 6$



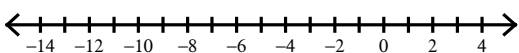
71)  $8 - 9a < 62$  or  $10a + 6 \leq 26$



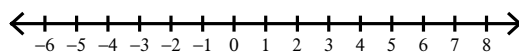
73)  $6p - 5 > -59$  or  $5p + 1 > -39$



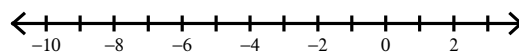
75)  $5x - 4 > -9$  or  $7 + 6x < -53$



77)  $6 - 7n \geq -6n + 1$  and  $2 - 2n \leq -n + 6$



79)  $9r + 9 < 8r + 2$  or  $5 + 10r \geq 6r + 5$



# Answers to Review Sheet: Inequalities (ID: 1)

