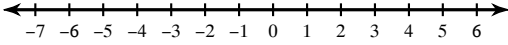


Assignment

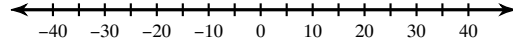
Date _____ Period _____

Solve each inequality and graph its solution.

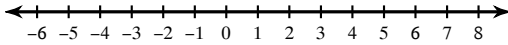
1) $\left| \frac{b}{7} \right| < -2$



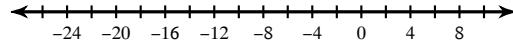
2) $\left| \frac{v}{10} \right| \leq 4$



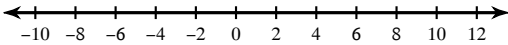
3) $|10m| > 30$



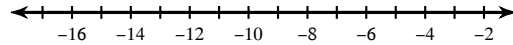
4) $|7 + n| < 16$



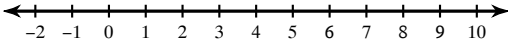
5) $\left| \frac{x}{3} \right| < 3$



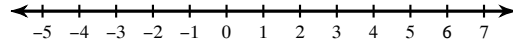
6) $|a + 10| < 6$



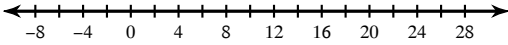
7) $|7n| \leq 7$



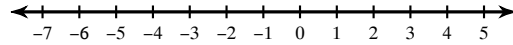
8) $|4x| < -24$



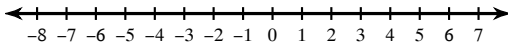
9) $|v - 10| < 17$



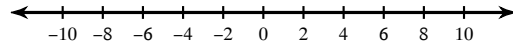
10) $\left| \frac{p}{10} \right| \leq -3$



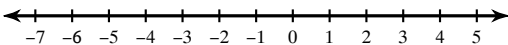
11) $\left| \frac{r}{3} \right| \geq 1$



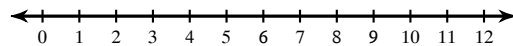
12) $\left| \frac{x}{2} \right| \leq 4$



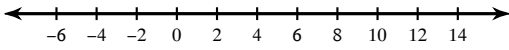
13) $\left| \frac{x}{6} \right| \leq -3$



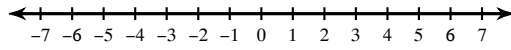
14) $|x - 6| < 4$



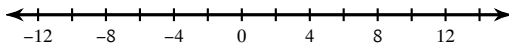
$$15) |x - 3| \leq 9$$



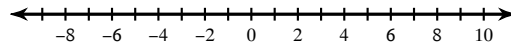
$$16) |2 - 4n| < -6$$



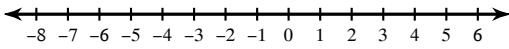
$$17) |7 - 6x| > 53$$



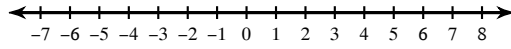
$$18) |2 - 4m| \geq 26$$



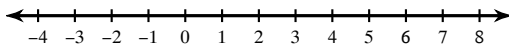
$$19) |10x + 4| < 54$$



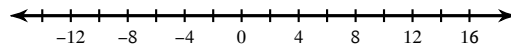
$$20) |2 - 10n| \leq -8$$



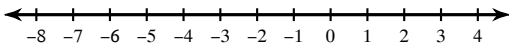
$$21) |n - 2| > 1$$



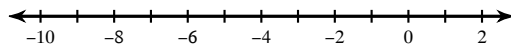
$$22) |6 - 4n| > 42$$



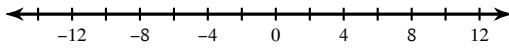
$$23) |4 + 9m| \leq 5$$



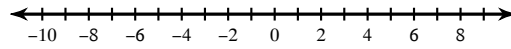
$$24) |n + 1| < 2$$



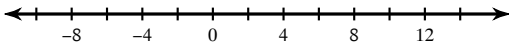
$$25) |2 - 5n| > 47$$



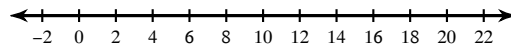
$$26) |-4x - 5| > 21$$



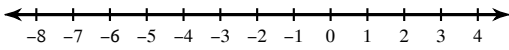
$$27) |2v - 7| \leq 21$$



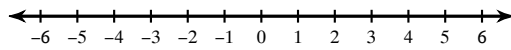
$$28) |10 - x| > 9$$



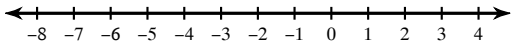
$$29) |9x + 5| < -22$$



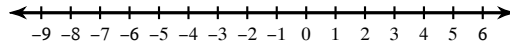
$$30) |-9x + 2| < 29$$



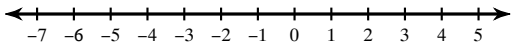
$$31) \quad |-10 - 7v| - 4 > 7$$



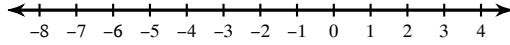
$$32) \quad -4|-8x - 9| \leq -92$$



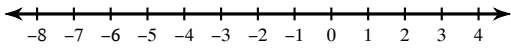
$$33) \quad \frac{|2 + 5m|}{4} > 1$$



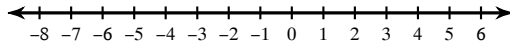
$$34) \quad |-10r - 5| - 9 \leq 6$$



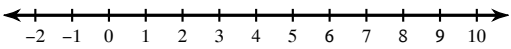
$$35) \quad -1 + |9r + 9| \geq -73$$



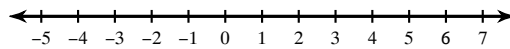
$$36) \quad -3 + |4m + 7| \leq -36$$



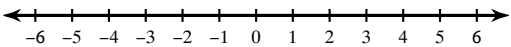
$$37) \quad -1 + |9v + 5| \leq 4$$



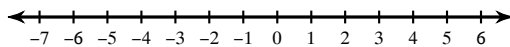
$$38) \quad 8|4k + 7| \geq -72$$



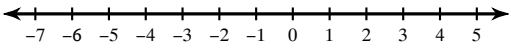
$$39) \quad \frac{|4x - 5|}{6} \leq -4$$



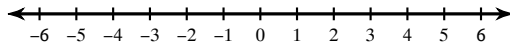
$$40) \quad \frac{|-3 + 9m|}{9} < 5$$



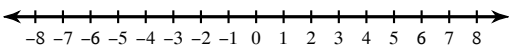
$$41) \quad |3x + 1| + 4 \leq 17$$



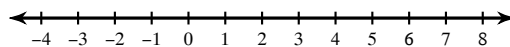
$$42) \quad |-5v + 1| - 1 \leq -35$$



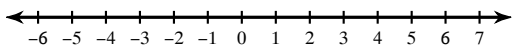
$$43) \quad -3 + |2a - 7| < -4$$



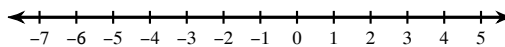
$$44) \quad \frac{|8a - 6|}{9} > -2$$



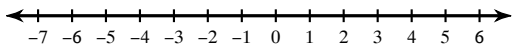
$$45) -3|9 - 10b| < -63$$



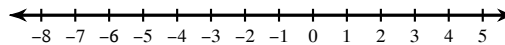
$$46) 7|-5 - 3x| - 6 < 43$$



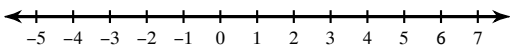
$$47) 1 + 2|4 - 10n| > 53$$



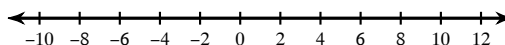
$$48) 10 + 8|4x - 5| > -62$$



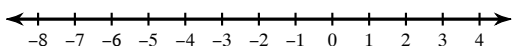
$$49) -4|4n - 10| + 4 \geq -36$$



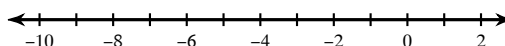
$$50) |6 - 5n| + 9 < 53$$



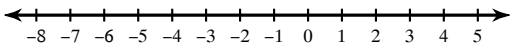
$$51) -10|9a - 4| + 1 < 41$$



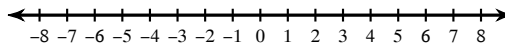
$$52) 7 - 9|-4n - 8| > -29$$



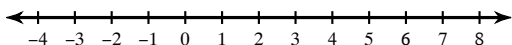
$$53) -1 - 9|-10r + 1| \geq 80$$



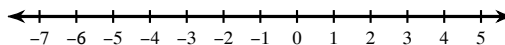
$$54) 7 - 5|-4 - p| \geq 87$$



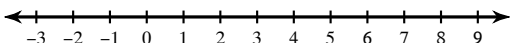
$$55) -6|-5 + 7b| + 8 < 80$$



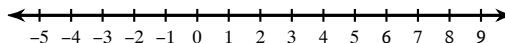
$$56) 2 - 5|10p + 2| \geq -108$$



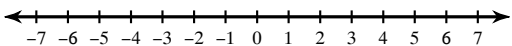
$$57) 8 + 6|7x + 2| < 62$$



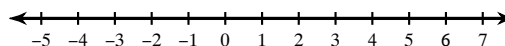
$$58) 5 - 3|8 - 5b| \geq -64$$



$$59) -|1 + 3n| - 8 > 6$$



$$60) 9|7b - 7| - 8 > 55$$

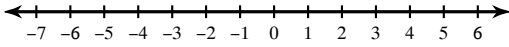


Assignment

Date _____ Period _____

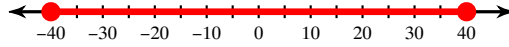
Solve each inequality and graph its solution.

1) $\left| \frac{b}{7} \right| < -2$

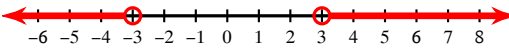


No solution.

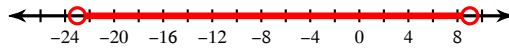
2) $\left| \frac{v}{10} \right| \leq 4$

 $-40 \leq v \leq 40$

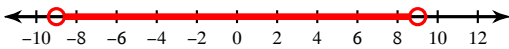
3) $|10m| > 30$

 $m > 3$ or $m < -3$

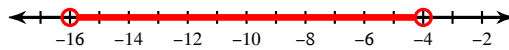
4) $|7 + n| < 16$

 $-23 < n < 9$

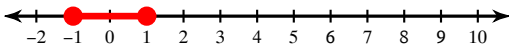
5) $\left| \frac{x}{3} \right| < 3$

 $-9 < x < 9$

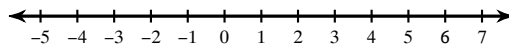
6) $|a + 10| < 6$

 $-16 < a < -4$

7) $|7n| \leq 7$

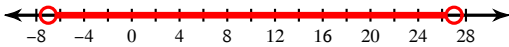
 $-1 \leq n \leq 1$

8) $|4x| < -24$

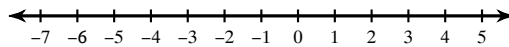


No solution.

9) $|v - 10| < 17$

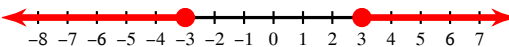
 $-7 < v < 27$

10) $\left| \frac{p}{10} \right| \leq -3$

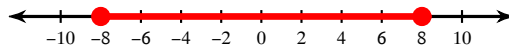


No solution.

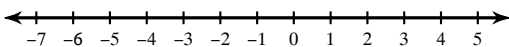
11) $\left| \frac{r}{3} \right| \geq 1$

 $r \geq 3$ or $r \leq -3$

12) $\left| \frac{x}{2} \right| \leq 4$

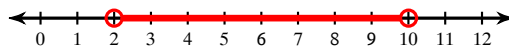
 $-8 \leq x \leq 8$

13) $\left| \frac{x}{6} \right| \leq -3$

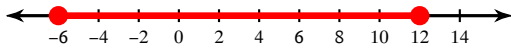


No solution.

14) $|x - 6| < 4$

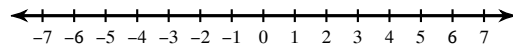
 $2 < x < 10$

$$15) |x - 3| \leq 9$$



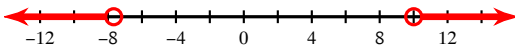
$$-6 \leq x \leq 12$$

$$16) |2 - 4n| < -6$$



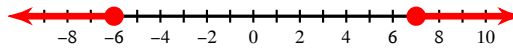
No solution.

$$17) |7 - 6x| > 53$$



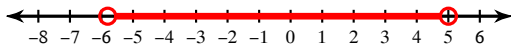
$$x < -\frac{23}{3} \text{ or } x > 10$$

$$18) |2 - 4m| \geq 26$$



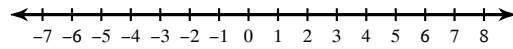
$$m \leq -6 \text{ or } m \geq 7$$

$$19) |10x + 4| < 54$$



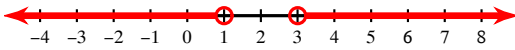
$$-\frac{29}{5} < x < 5$$

$$20) |2 - 10n| \leq -8$$



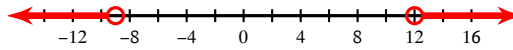
No solution.

$$21) |n - 2| > 1$$



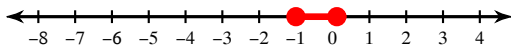
$$n > 3 \text{ or } n < 1$$

$$22) |6 - 4n| > 42$$



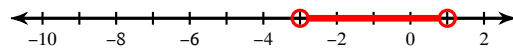
$$n < -9 \text{ or } n > 12$$

$$23) |4 + 9m| \leq 5$$



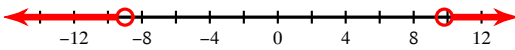
$$-1 \leq m \leq \frac{1}{9}$$

$$24) |n + 1| < 2$$



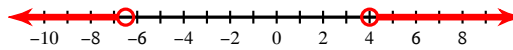
$$-3 < n < 1$$

$$25) |2 - 5n| > 47$$



$$n < -9 \text{ or } n > \frac{49}{5}$$

$$26) |-4x - 5| > 21$$



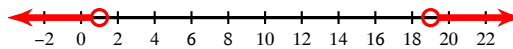
$$x < -\frac{13}{2} \text{ or } x > 4$$

$$27) |2v - 7| \leq 21$$



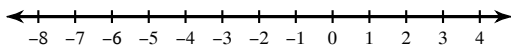
$$-7 \leq v \leq 14$$

$$28) |10 - x| > 9$$



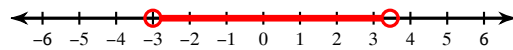
$$x < 1 \text{ or } x > 19$$

$$29) |9x + 5| < -22$$



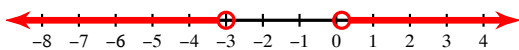
No solution.

$$30) |-9x + 2| < 29$$



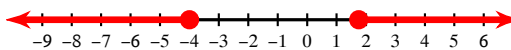
$$-3 < x < \frac{31}{9}$$

$$31) \quad |-10 - 7v| - 4 > 7$$



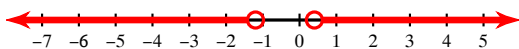
$$v < -3 \text{ or } v > \frac{1}{7}$$

$$32) \quad -4|-8x - 9| \leq -92$$



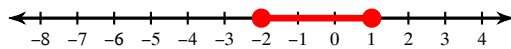
$$x \leq -4 \text{ or } x \geq \frac{7}{4}$$

$$33) \quad \frac{|2 + 5m|}{4} > 1$$



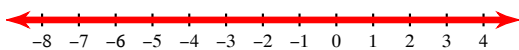
$$m > \frac{2}{5} \text{ or } m < -\frac{6}{5}$$

$$34) \quad |-10r - 5| - 9 \leq 6$$



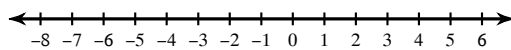
$$-2 \leq r \leq 1$$

$$35) \quad -1 + |9r + 9| \geq -73$$



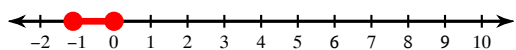
{ All real numbers. }

$$36) \quad -3 + |4m + 7| \leq -36$$



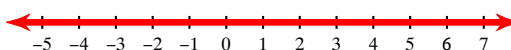
No solution.

$$37) \quad -1 + |9v + 5| \leq 4$$



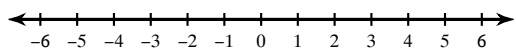
$$-\frac{10}{9} \leq v \leq 0$$

$$38) \quad 8|4k + 7| \geq -72$$



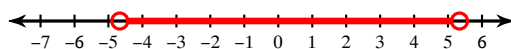
{ All real numbers. }

$$39) \quad \frac{|4x - 5|}{6} \leq -4$$



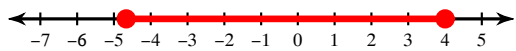
No solution.

$$40) \quad \frac{|-3 + 9m|}{9} < 5$$



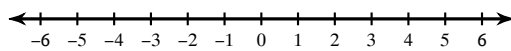
$$-\frac{14}{3} < m < \frac{16}{3}$$

$$41) \quad |3x + 1| + 4 \leq 17$$



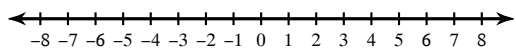
$$-\frac{14}{3} \leq x \leq 4$$

$$42) \quad |-5v + 1| - 1 \leq -35$$



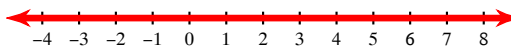
No solution.

$$43) \quad -3 + |2a - 7| < -4$$



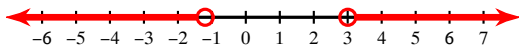
No solution.

$$44) \quad \frac{|8a - 6|}{9} > -2$$



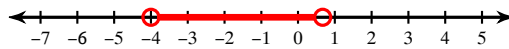
{ All real numbers. }

$$45) -3|9 - 10b| < -63$$



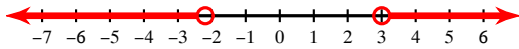
$$b < -\frac{6}{5} \text{ or } b > 3$$

$$46) 7|-5 - 3x| - 6 < 43$$



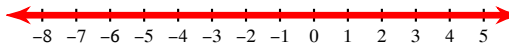
$$-4 < x < \frac{2}{3}$$

$$47) 1 + 2|4 - 10n| > 53$$



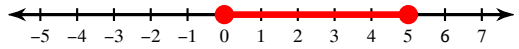
$$n < -\frac{11}{5} \text{ or } n > 3$$

$$48) 10 + 8|4x - 5| > -62$$



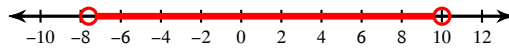
{ All real numbers. }

$$49) -4|4n - 10| + 4 \geq -36$$



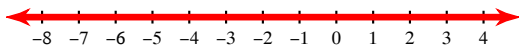
$$0 \leq n \leq 5$$

$$50) |6 - 5n| + 9 < 53$$



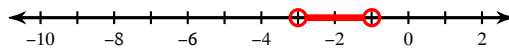
$$-\frac{38}{5} < n < 10$$

$$51) -10|9a - 4| + 1 < 41$$



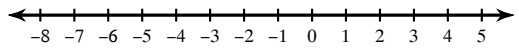
{ All real numbers. }

$$52) 7 - 9|-4n - 8| > -29$$



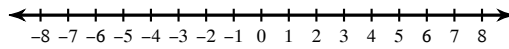
$$-3 < n < -1$$

$$53) -1 - 9|-10r + 1| \geq 80$$



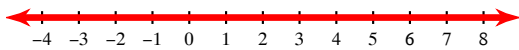
No solution.

$$54) 7 - 5|-4 - p| \geq 87$$



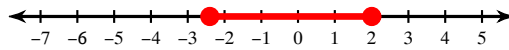
No solution.

$$55) -6|-5 + 7b| + 8 < 80$$



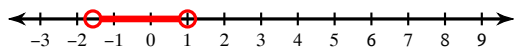
{ All real numbers. }

$$56) 2 - 5|10p + 2| \geq -108$$



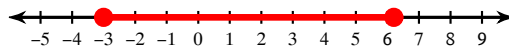
$$-\frac{12}{5} \leq p \leq 2$$

$$57) 8 + 6|7x + 2| < 62$$



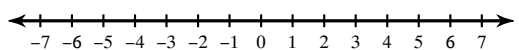
$$-\frac{11}{7} < x < 1$$

$$58) 5 - 3|8 - 5b| \geq -64$$



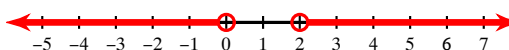
$$-3 \leq b \leq \frac{31}{5}$$

$$59) -|1 + 3n| - 8 > 6$$



No solution.

$$60) 9|7b - 7| - 8 > 55$$



$$b > 2 \text{ or } b < 0$$