REVIEW INEQUALITIES
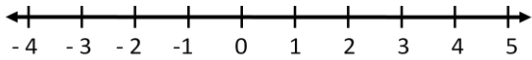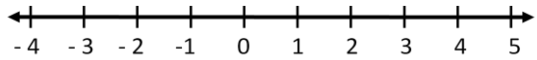
Graph the following Inequalities
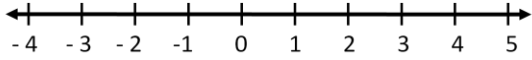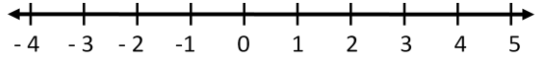
1) $x \leq 5$

2) $-4 < x$
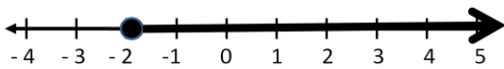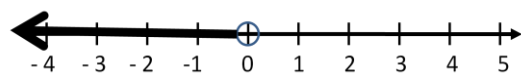

3) $x \geq -1$

4) $x < 1$

Write an inequality for each of the following graphs.
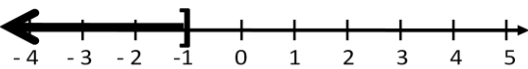
5) _____

6) _____

7) _____

8) _____
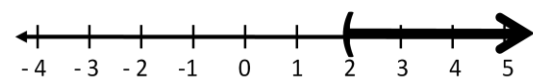
Rewrite the inequality with the variable on the left side.

9) $-9 \geq x$ _____

10) $12 < x$ _____

11) **Is 3 a solution to the following inequality?** $2 - 3x < 4$.

Solve each inequality and state the solution with the variable on the left side.

12) $x + 7 > -3$

13) $x - 5 > 7$

14) $2x \leq 50$

15) $-3y < 48$

16) $\dfrac{m}{5} \geq 7$

17) $-\dfrac{p}{3} < 5$

18) $8 \leq -12 + 5w$

19) $5 \geq 11 + 3h$

20) $5 - 9c > -13$

21) $8 - 4x < 16$

22) $2y - 9 \leq 5$

23) $-\dfrac{2}{3}g + 7 < 9$

24) $2x + 7 > x + 10$

25) $r + 4 < 13 - 2r$

26) $3j + 2 - 2j > -10$

27) $4(k - 1) > 4$

28) $8m - 8 < 12 + 4m$

29) $2(3f + 2) \geq 4f + 12$

30) $h + 2(3h + 4) \leq 1$

31) $2(5t - 25) + 5t < -80$

32) $\dfrac{1}{2}(2g + 4) > -7$

33) $\dfrac{1}{3}x + 2x - 3 > 2$

Solve each word problem

34)   The sophomore class is planning a picnic. The cost of a permit to use the city park is $250. They are going to charge each sophomore $75 and each guest $1.25.   If 200 hundred sophomores attend, how many guests must attend to pay for the cost of the park?

35)   Joleen is a sales associate in a clothing store.   Each week she earns $250 plus a $.03 on every dollar she sells.   If Joleen wants to earn $450 dollars this week, how much money do here customers have to spend?