Inequalities Test Review

Name _____

Date _____ Per _____

1.   Draw each inequality sign next to the corresponding name.

<u>Less Than</u>	<u>Greater Than</u>
<u>Greater Than or Equal To</u>	<u>Less than or Equal To</u>

2.   Match the term with the correct inequality sign. (The inequality signs will be used more than once)

A. At Most   **Greater Than or Equal To**

B. No More Than   **Less Than**

C. At Least   **Less Than or Equal To**

D. Fewer Than   **Greater Than**

E. No Less Than

F. More Than

3.   Explain the difference between an equation and an inequality. Give an example of an equation and an example of an inequality.

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Solve and graph the solution for the following problems. Then write what the solution is using a complete
       sentence.

1. $16 > 8 - x$

4. $-4x + 8x - 4 < -36$

5. $-3(5x + 1) \le -33$

2. $4(2x + 4) < 24$

3. $11 - \dfrac{1}{2}x \ge 21$

6. $14x - 9 + 18 < 89 - 2x$

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Use each scenario to write an expression that can be used to solve the situation. Answer each question that follows using complete sentences.

7.   Sally Shopper earned $360 working this past summer. Sally spends an average of $43 every weekend. Write an expression that can be used to represent the relationship between the number of weekends she has shopped, w, and the amount of money she has left in her account.

8.   How much money will she have left if she shops at least 5 weekends?

9.   How many weekends will it take Sally to have no more than $150 left of her earnings?

10.   If Sally wanted to shop 10 weekends, would she have enough money? Explain.

11.   Charlie the Clown has started a savings account for really big shoes. He saved $20 last week and plans to add $15 each week from his job working at children's parties. Write an expression that can be used to represent the relationship between the number of months and the amount of money that he has saved.

12.   How much money will Charlie have saved if he saves at least 7 weeks?

13.   If Charlie has saved more than the $185, how many weeks has he been saving?

14.   If Charlie needs at least $250 to pay for the shoes, how many weeks will he have to save?

15.   Fred, the worst football player on the team, has decided to take lessons to become a better tackler. His teammates gave him $15 to take the class and Fred has decided to mow lawns for $12 a yard to get money to pay for the lessons. Write an expression that could be used to represent the relationship between the number of yards Fred mows and the amount of money that he has saved.

16.   If Fred mows no more than 10 yards, how much money will he have saved for the lessons?

17.   If he has saved more than $75, how many yards has he mowed?

18.   If Fred needs at least $100 for the lessons, how many yards will he have to mow to earn the money?