

Pre AP Algebra 1

Name: 

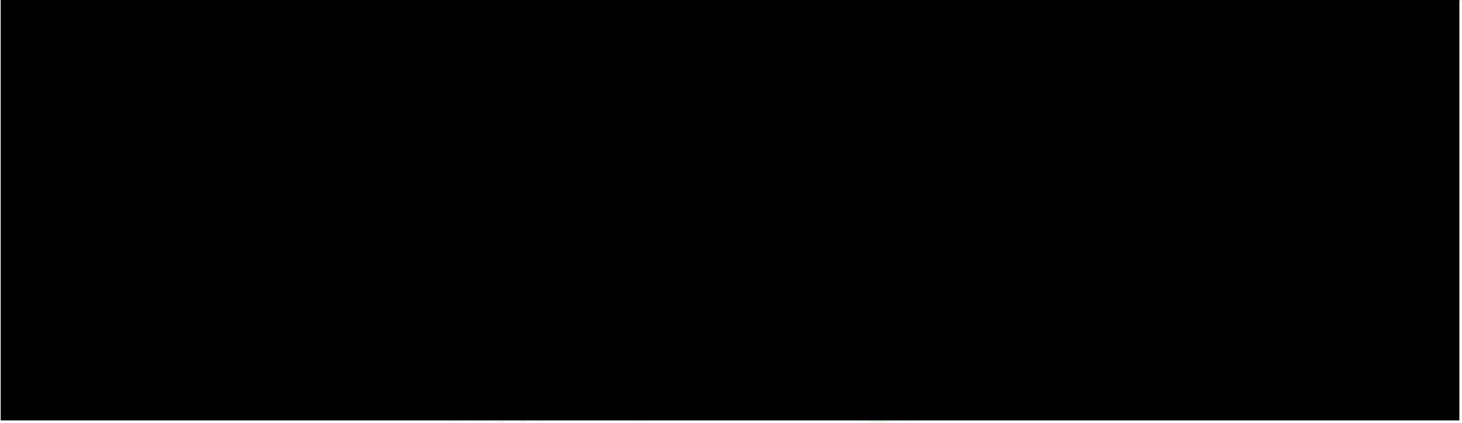
Quiz 5-1 through 5-5

Date: \_\_\_\_\_ Pd: \_\_\_\_\_

1. Solve AND graph the solution set for each inequality.

a.  $\frac{4}{3}x + 5 < 17$

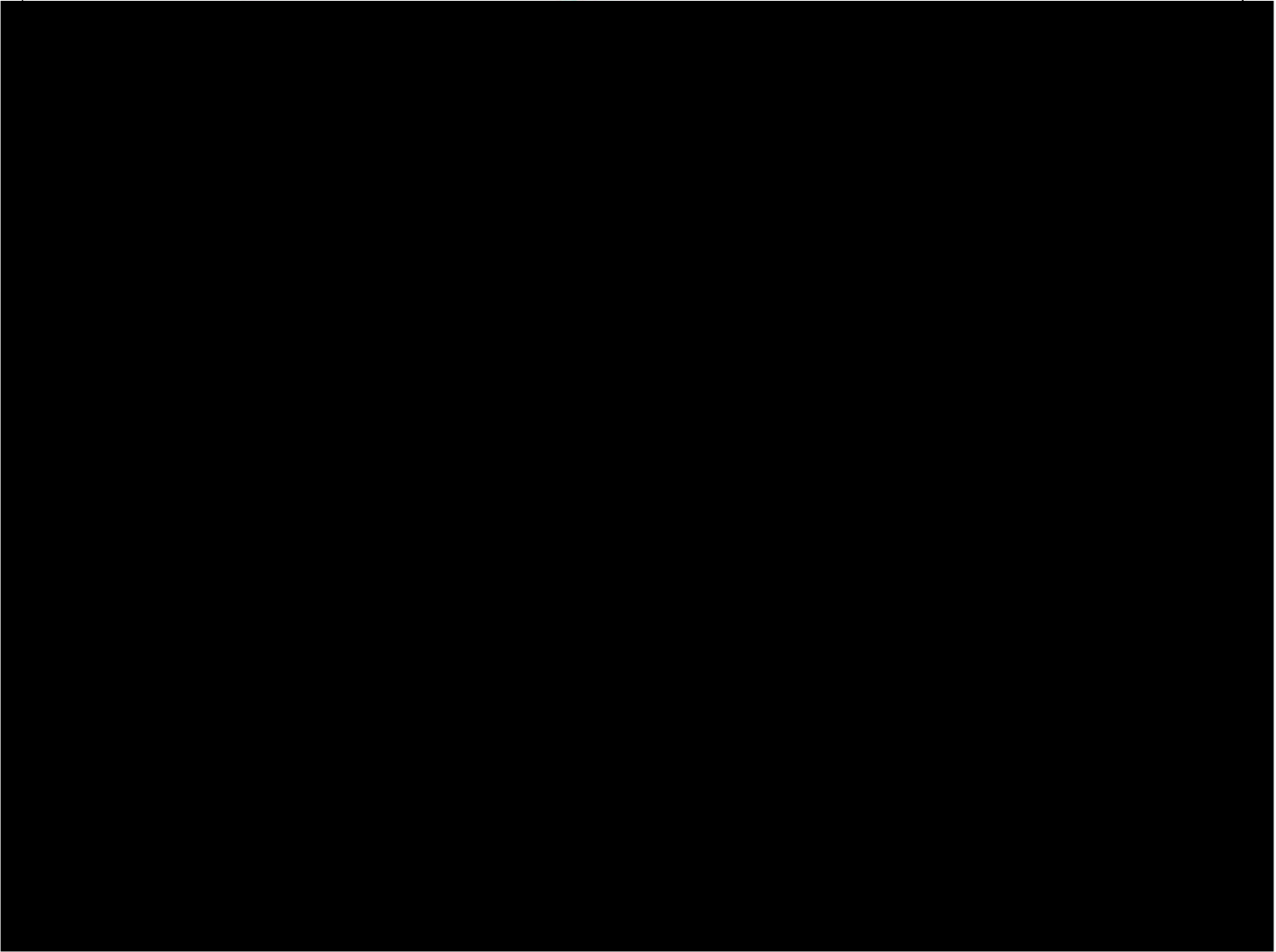
b.  $-3(3 + 2y) - 1 \leq 2(1 - 4y)$



2. Solve AND graph the solution set for each inequality.

a.  $10 - 3x > -8$

b.  $\frac{2}{3}u + \frac{2}{6} \geq \frac{4}{3}u$



4. What is the least whole number that is a solution of  $4r - 4.9 > 14.95$ ?

5. Roger is having a picnic for 78 guests. He plans to serve each guest at most two hot dogs. If each package,  $p$ , contains eight hot dogs, write and solve the inequality that could be used to determine how many packages of hot dogs Roger will need to buy and solve.

6. Mrs. Smith wrote "Six less than 3 times a number is greater than fifteen" on the board. If  $x$  represents the number, write an inequality that is a correct translation of this and solve.

7. Peter begins his kindergarten year able to spell 10 words. He is going to learn to spell 2 new words per day. Write an inequality that can be used to determine how many days,  $d$ , it takes Peter to be able to spell at least 75 words. Use this inequality to determine the minimum number of whole days it will take for him to be able to spell at least 75 words.

9. Solve and graph the solution set of the compound inequality:  $-5 < 2x - 5 \leq 3$ .

10. Solve and graph the solution set of the compound inequality:  $-5x - 1 \leq 9$  or  $-5x - 1 > 19$

