

Name _____

8A; Algebra 1

Date _____

Period _____

Number and Inequality Word Problems
Day II

1) If four times a number is decreased by 10, the result is the same as when 9 times the number is diminished by 50. Find the number.

2) Ace Construction built 5 less than twice the number of houses that Ben's Construction built. If the total number of houses built by both firms was 115, how many did each build?

3) One number is four more than another number. If four times the smaller number is decreased by twice the larger number, the result is 12. Find both numbers.

4) Three times a number increased by 8 does not exceed 40 more than the number. Find the greatest possible value of the number.

5) The larger of two numbers is 12 more than twice the smaller. The larger number is 36. What is the smaller number?

6) The larger of two numbers is three times the smaller number. If the larger number is diminished by 30, the result is the sum of the smaller number and 10. Find both numbers.

7) The larger of two rock collections has twice the number of specimens of the smaller collection. If the smaller number is increased by 4, the result is 6 less than the larger number. Find the number of rocks in each collection.

8) The members of a club agree to buy at least 250 tickets for a theater party. If they expect to buy 80 fewer orchestra tickets than balcony tickets, what is the least number of balcony tickets they will buy?

9) Mrs. Scott decided that she would spend no more than \$120 to buy a jacket and a skirt. If the price of the jacket was \$20 more than 3 times the price of the skirt, find the highest possible price of the skirt.