

Name: \_\_\_\_\_

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

## Algebra I

Directions: Solve the following inequality word problems using a let statement.

1. Twice a number, increased by 8, is less than 48. Find the possible solutions.
2. A winter coat can sell for at least \$200 if it is sold at a reduction of  $\frac{1}{5}$  of its current price. How much does the coat currently cost?
3. A painter does not want to spend more than \$480 for wallpaper, paint, and supplies. If the paint and supplies each cost half as much as the paper, what is the most that everything can cost individually?
4. A car rental company charges \$12 per day, plus 50 cents per mile driven. If Gladys rents a car for 1 day, what distance can she drive and keep her total rental charge under \$50?
5. A number exceeded by 17 is at least 81. Find the possible solutions.
6. The sum of half a number and 7 is at most 301. Find the possible solutions.