

Name _____ Date _____ Period _____

Applied Algebra I – Inequality Word Problems Worksheet #1

Write a let statement for each problem. Then set up each problem using an algebraic equation or inequality. Solve.

- 1.) Mercury is the metallic element with the lowest melting point, -38.87°C . Write an inequality that describes the melting point p (in degrees Celsius) of any other metallic element.

- 2.) The world record for the largest Pacific blue marlin is 1376 pounds. It was caught in Kaaiwi Point, Kona, Hawaii. Write an inequality that represents the largest Pacific blue marlin. Graph the inequality.

- 3.) An amusement park charges \$5 for admission and \$1.25 for each ride. You go to the park with \$25. Write an inequality that represents the possible number of rides you can go on. What is the maximum number of rides you can go on?

- 4.) You have \$18.50 to spend on a pizza. It costs \$14 plus \$.75 for each additional topping, tax included. Solve an inequality to find the maximum number of toppings the pizza can have.

- 5.) For Park College's basketball games, it costs \$15 to attend. A season's pass costs \$170. At most, how many games could you attend at the \$15 regular price before spending more than the cost of a season's pass?

- 6.) In 1967 a 60-second TV commercial during the first Super Bowl cost \$85,000. In 1998 advertisers paid \$2.6 million for 60 seconds of commercial time. Write a compound inequality that represents the different prices that 60 seconds of commercial time during the Super Bowl probably cost between 1967 and 1998.

- 7.) The Moon's distance from Earth varies from about 220,000 miles to about 250,000 miles. Write an inequality to represent this fact.