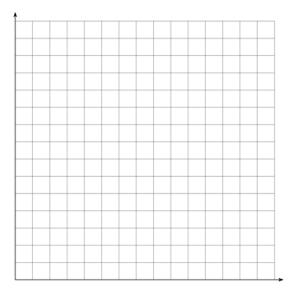
Algebra II Honors Systems of Equations/Inequalities Review	Name: Date:	Period:
1.) At a college production of <i>Streetcar Named Desire</i> , 40 and \$12, and the total income from ticket sales was \$370 number of \$8 and \$10 tickets sold was 7 times the number	00 tickets were sold. The 00. How many of each typ	ticket prices were \$8, \$10,
2.) An inheritance of \$12,000 was invested among three municipal bonds that paid 6% annually, and mutual funds mutual funds was \$4000 more than the amount invested first year was \$1120. How much was invested in each type	s that paid 12% annually. in municipal bonds. The t	The amount invested in
3.) Two teams playing in a football game scored a total o different scoring plays, which were a combination of tou points, 1 point, and 3 points, respectively. The same num kicked. How many touchdowns, extra-point kicks, and fi	chdowns, extra-point kick ber of extra-point kicks v	ks, and field goals, worth 6
4.) Madison is thinking about leasing a car for two years.	. The dealership says that	they will lease her the car she

has chosen for \$326 per month with only \$200 down. However, if she pays \$1600 down, the lease payment drops to \$226 per month. When will the two plans cost the same? Which 2-year lease should she choose if the

down payment is not a problem?

5.) A furniture company can sell all the tables and chairs it produces. Each table requires 1 hour in the assembly center and  $1\frac{1}{3}$  hours in the finishing center. Each chair requires  $1\frac{1}{2}$  hours in the assembly center and  $1\frac{1}{2}$  hours in the finishing center. The company's assembly center is available 12 hours a day and its finishing center is available 15 hours a day. Find and graph a system of inequalities describing all possible production levels.



6.) A person with no more than \$15,000 to invest plans to place money in two investments. One investment is high risk, high yield; the other is low risk, low reward. At least \$2000 is to be placed in the high-risk investment. Furthermore, the amount invested at low-risk should be at least three times the amount invested at high-risk. Find and graph a system of inequalities that describes all possibilities for placing the money in the high and low risk investments.

