Class: Practice Test 2

Int 2 Acc

Sketch a graph of the linear inequalities.









$4. \quad 3x+y \le 6$







 $7. \quad -2x - 4y \le 16$



8. -2x + 3y > -9



9. -6x + 2y < -4



Solve and graph the inequalities.



Solve and graph each inequality: 22. $n+1 \le -3$ or $-4n < -8$	23. $\frac{k}{4} \ge 1$ or $\frac{k}{3} \le -1$
24. $2 < 2x < 6$	25. $6 \le x + 6 \le 11$
$2633 \le -7n - 12 < -26$	27. $9-2b > 7$ or $7-5b < -8$
28. $12 + 4n > 44$ or $10 - 12n > -38$	29. $36 \le 11 - 5x \le 66$
30. $-5x + 6 \ge -14$ or $1 + 9x < -44$	31. $-9x \le 82 \text{ or } 6x - 1 > -7$
32. $2x + 10 < 30$ or $6x - 8 > 22$	33. $-2x - 2 \le -2$ or $4 - 3x \ge -26$



True or False?

46. (0, 3) is a solution to the inequality



48. Josh is going on a trip to visit some friends from summer camp. He will use \$40 for food and entertainment. He will also need money to cover the cost of gas. The price of gas at the time of his trip is \$3.25 per gallon. Josh only has \$170 for the trip. Fill in the blank below with the appropriate inequality (<, >, ≤, ≥) symbol to represent this situation.

$3.25x + 40 _{170}$

49. You are buying pizza for a party. Pepperoni pizza is \$10 per pizza, and meat lovers pizza is \$15 per pizza. You want to really impress people and want to spend more than \$200. Fill in the blank below with the appropriate inequality $(<, >, \le, \ge)$ symbol to represent this situation.

$10x + 15y ___200$

50. You are going to a Super Bowl party and was asked to bring soda and chips. The soda costs \$3.50 per bottle and the chips are \$2.50 a bag. If you only have \$30 to spend, fill in the blank below with the appropriate inequality (<, >, ≤, ≥) symbol to represent this situation.

$$3.50x + 2.50y ___30$$

51. Jose is going to an arcade that costs \$5 to enter and \$2 per game. If Jose only has a \$50 bill, Fill in the blank below with the appropriate inequality $(<, >, \le, \ge)$ symbol to represent this situation.

$2x + 5_{50}$

- **52.** Sam is saving up for a car. His parents give him \$300 and he is going save \$60 a week. Write an inequality if he wants to have at least \$4000 when he goes to buy the car.
- **53.** You are making scrapbooks for your friends. Your mom already made 3 that you are going to use and you can make 2 a day. Write an inequality if you need more than 15 scrapbooks.
- **54.** You work at a movie theater where child tickets are \$4 each and adult tickets are \$9. Write an inequality if your manager tells you that you need to sell at least \$600 worth of tickets one night.

47. (2, -3) is a solution to the inequality