

Name \_\_\_\_\_

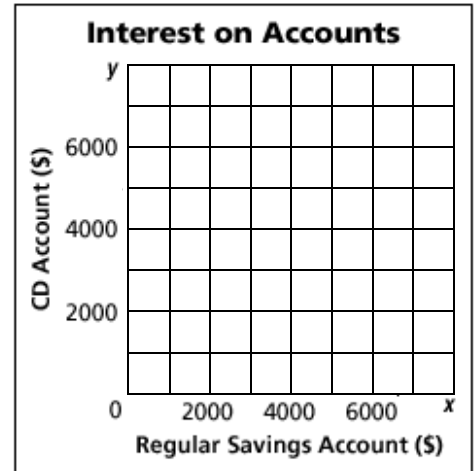
Date \_\_\_\_\_ Pd. \_\_\_\_\_

## Notes: Graphing Linear Inequalities Day 2

<b>Boundary</b>	The _____ of the half-plane, defined by an _____.
<b>Half-Plane</b>	The _____ for an inequality, represented graphically.

**Example**

**BANKING** A bank offers 4.5% annual interest on regular savings accounts and 6% annual interest on certificates of deposit (CD). If Marjean wants to earn at least \$300 interest per year, how much money should she deposit in each type of account?

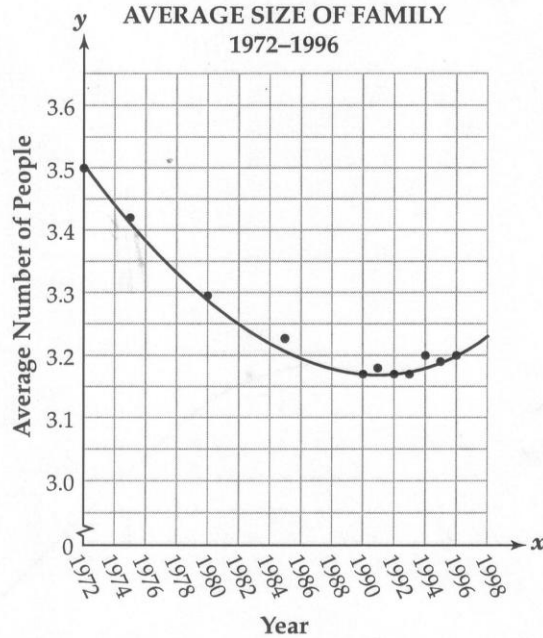


Name \_\_\_\_\_

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## Exit Card: Graphing Linear Inequalities Day 2

The scatter plot below shows the average family size for the years 1972 through 1996. A curve of best fit has been drawn.



Complete the following

- Describe the changes in family size that are indicated by the graph for the years 1972 through 1996.
- According to the curve of best fit, what is the average family size in 1998? Use mathematics to explain how you determined your answer. Use words, symbols, or both in your explanation.
- Would it be reasonable to use this curve of best fit to predict the average family size for 2010? Use mathematics to justify your answer.

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**Homework: Page 356 (12 – 14, 17, 28, 40, 41)**

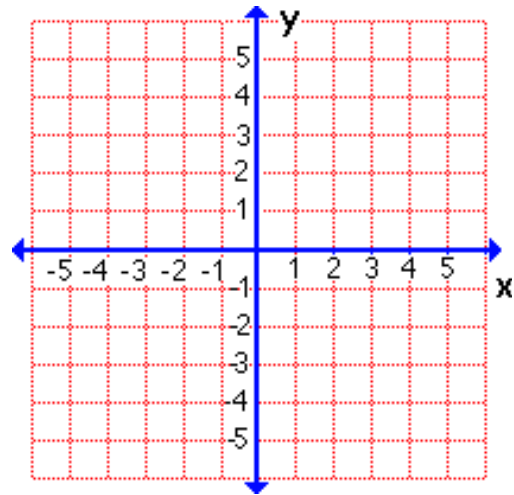
12. Determine which ordered pairs are part of the solution set of  $y \leq 3 - 2x$   
 $\{ (0, 4), (-1, 3), (6, -8), (-4, 5) \}$

13. Determine which ordered pairs are part of the solution set of  $y < 3x$   
 $\{ (-3, 1), (-3, 2), (1, 1), (1, 2) \}$

14. Determine which ordered pairs are part of the solution set of  $x + y < 11$   
 $\{ (5, 7), (-13, 10), (4, 4), (-6, -2) \}$

17. Determine which ordered pairs are part of the solution set of  $3x + 4y < 7$   
 $\{ (1, 1), (2, -1), (-1, 1), (-2, 4) \}$

28. Graph the inequality  $5x + 10y > 0$



A delivery truck is transporting televisions and microwaves to an appliance store. The weight limit for the truck is 4000 pounds. The televisions weigh 77 pounds, and the microwaves weigh 55 pounds.

40. Write an inequality for this situation.

41. Will the truck be able to deliver 35 televisions and 25 microwaves at once?