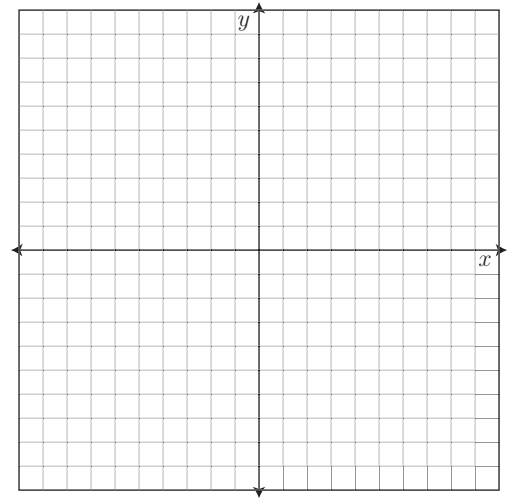Name:_____

| Show all relevant work! |

1. Sketch a number line showing the negative integers between -5 and 3.

2. Let n be the number (in millions) of skateboarders in the United States at t years since 2000. What does the ordered pair $(9, 13)$ mean in this situation?

3. Plot the points $(-4, -5)$ and $(7, 6)$ and draw a line through the two points. *Estimate* the coordinates of the x and y intercepts of the line.

4. Let v be the value (in thousands of dollars) of a car when it is t years old. Some pairs of values of t and v are listed in the table.

Ages and Values of a Car

t (years)	v (thousands of dollars)
1	18
3	14
5	10
7	6
9	2

(a) Create a scattergram of the data. Then draw a linear model.

(b) Estimate the age of the car when it is worth $4 thousand. _____

(c) Estimate the value of the car when it is 6 years old. _____

(d) What is the v–intercept of the model? _____
    What does it mean in this situation?

(e) What is the t–intercept of the model? _____
    What does it mean in this situation?