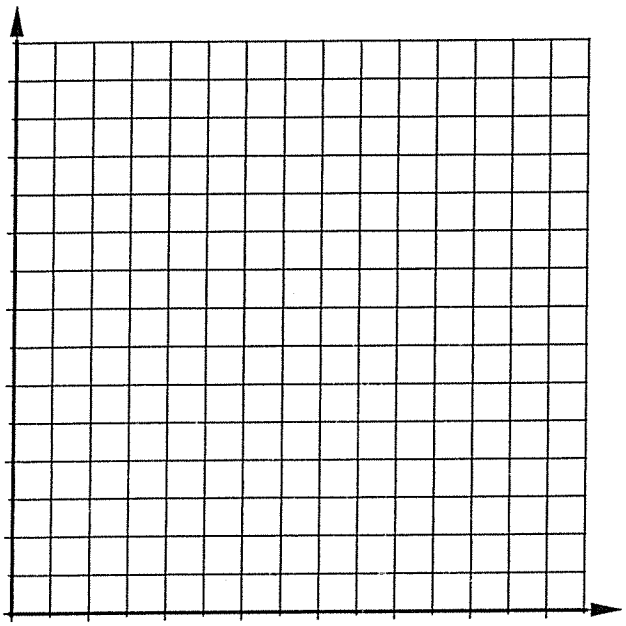
Alg 2A Classwork Scatter Plots Fall 2016 Name:

Use the data below.

# Days	# Sit-ups
3	30
5	33
7	40
11	45
19	62
23	70

1. Make a scatter plot of this data using the graph below. Put the # of days on the x-axis and the # of sit-ups on the y-axis. Decide on a scale that will fit the data and allow you to go beyond the data.



2. Draw a trendline. This is a single line that goes through the "middle" of the data. It should come as close to as many of the data pts as possible with about as many above the line as there is below the line.

3. Use the trendline to predict the number of sit-ups after 30 days.

4. Use the trendline to predict the number of days it will take to do 50 sit-ups.

5. Find 2 points that are on the trendline. If you line doesn't go through two points that you plotted find two other points on the line. Find the slope of your trendline then write the equation of the trendline in Slope-Intercept Form.

6. What does the slope of the trendline represent in real-life?

7. What does the y-intercept of the trendline represent in real-life?

8. Predict the number of sit-ups that can be done after 500 days?