

SCATTER GRAPHS AND THE BEST FIT LINE

Name: _____

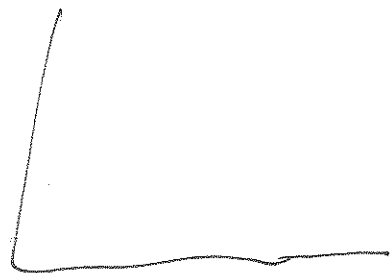
Date: _____

Hour: _____

- Use the information below to make a table that will help you to organize the scores by the following students on their SAT's and their Calculus Midterm Exams.
 - 10 students took the SAT and the Calculus Midterm Exam.
 - Of the 2 students who scored the lowest on their SAT's, one received an 86% and one received an 88% on their Midterm Exams.
 - 2 students received an 1100 on their SAT's.
 - The 2 students who received the highest score on their SAT's got 1400.
 - The lowest SAT score was 1000.
 - The 2 students who scored 1200 on their SAT's got 93% and 90% on their Midterm Exams.
 - 2 students scored 1300 on their SAT's. One of those students got a 95% on the Midterm Exam and the other received 3% less than that.
 - Of the students who scored the highest on the SAT's, one received a 98% and the other received a 95%.
 - Of the 2 students who received an 1100 on their SAT's, one received an 89% and the other received 3% higher than that on his/her Midterm Exam.
- Use the information in your table to create a scatter graph. (Use the provided sheet of graph paper and staple it to your worksheet.) Put the SAT Test Score on the x-axis and the Calculus Midterm Score on the y-axis. The x-axis should start at 800 and go up by increments of 50. The y-axis should start at 80 and go up by increments of 2. Remember to include a title for your graph.
- Draw a best fit line on your scatter plot, then use your best fit line to find the score that a student might have gotten on his/her midterm exam if he/she got a 900 on his/her SAT. Explain how you found your answer.
- Why might a teacher want to make a graph that shows these two pieces of information?

1	1400	98
2	1400	95
3	1300	95
4	1300	92
5	1200	93
6	1200	90
7	1100	92
8	1100	89
9	1000	88
10	1000	86

Calc
Y



SAT