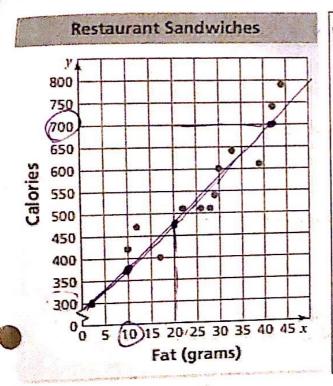
Question: How do I draw and use a line to model scatterplots with positive or negative linear

For each scatter plot below, draw a line of best fit. Then use the line to answer the questions.



1. If a sandwich has 20 grams of fat, what is the expected number of calories?

475 calories

2. If a sandwich has 300 calories, approximately how many grams of fat does it contain?

nrams

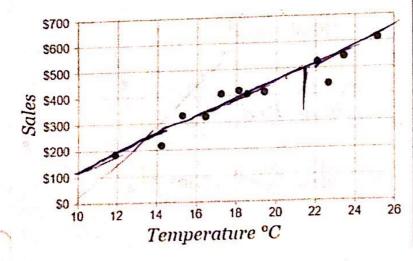
3. If a new sandwich has 700 calories, approximately how many grams of fat will it have?

42 arams

4. If a sandwich has 10 grams of fat, how many calories are in the sandwich?

375 calories

Describe the correlation:
As the Fat increase, the calories increase giving this graph a positive correlation.
This positive correlation has a strong estrongth that is linear because it is best moduled by a line. Describe the correlation: How Temperature affects the sales of ice cream



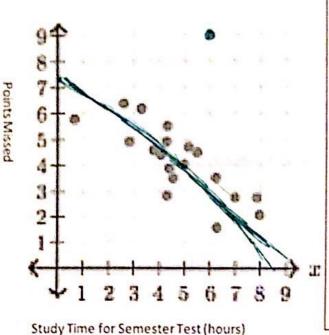
5. If there were \$500 worth of ice cream cones sold, what was the approximate temperature? 21 %

6. If it is 13°C outside today, how much can the company expect to make in sales?

7. Tomorrow's high is 17°C, what is the sales amount to expect?

Describe the correlation.

The Effect of Studying on Number of Points Lost



8. If Amanda studied for I hour, how many points should she expect to miss?

9. Taylor only missed 3 points. How long did he probably study?

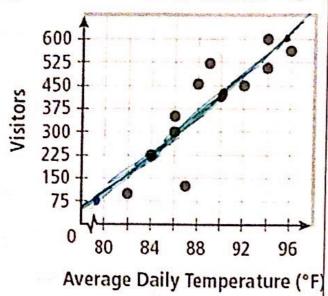
10. Maggie studied for 9 hours. How many points did she miss?

11. If Logan studied for 6 hours and missed 9 points, should you change your line? Do Explain.

Describe the correlation: As the Study flore for Somester tests increases, the points missed decreases giving this graph a regative correlation. This negative correlation has a moderate strength and is linear because it is

best model by a line

Beach Visitors



12. If tomorrow's high is 90 degrees F, how many visitors should the life guards expect?

13. If there are only 75 people at the beach, what is the approximate temperature?

14. The life guards estimate there are 600 people at the beach today. What is the temperature?

15. How many visitors are at the beach today if it is 840 degrees outside?

Describe the correlation: