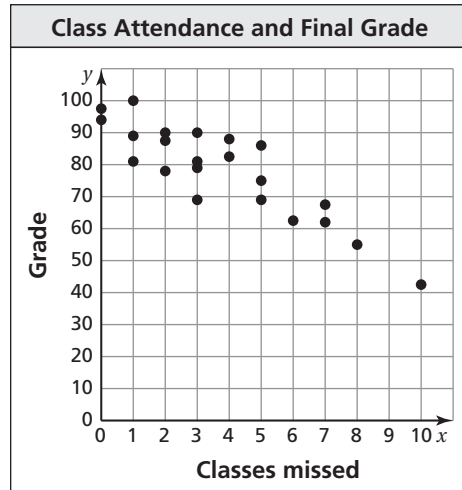


**CCSS
8.SP.2**

Class Attendance

The scatter plot shows the attendance and final grades of students in a class.



1. What is the final grade of the student who missed 8 classes?
2. Do the data show a *positive*, a *negative*, or *no* relationship? Explain.
3. Write an equation of the line of best fit.
4. Use your equation to predict the final grade of a student who misses 8 classes. How does this compare with your answer in Exercise 1?

Common Core State Standard

8.SP.2 Know that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line.

Grading Rubric

Answers	Score
1. 55	1
2. Negative; As the number of classes missed increases, the student's final grade decreases.	2
3. <i>Sample answer:</i> $y = -5x + 95$	1
4. <i>Sample answer:</i> 55; The prediction matches the actual data.	2
Precision	
1. Student understands how to estimate the y -value of a data point on a graph.	1
2. Student recognizes and interprets the relationship of the data.	2
3. Student writes an equation of a line that is close to most of the data points.	1
4. Student substitutes $x = 8$ into the equation from Exercise 3 and makes a reasonable comparison between the result and the answer in Exercise 1.	2
Total Points	12