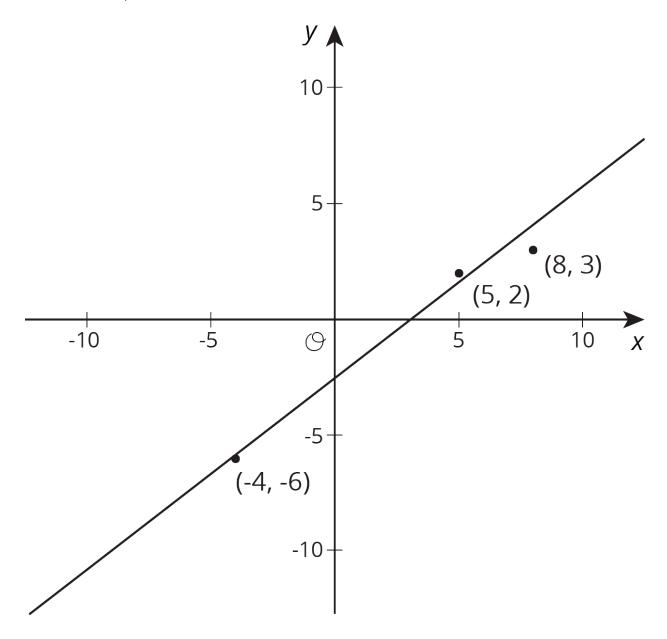
Unit 6 Lesson 6: The Slope of a Fitted Line

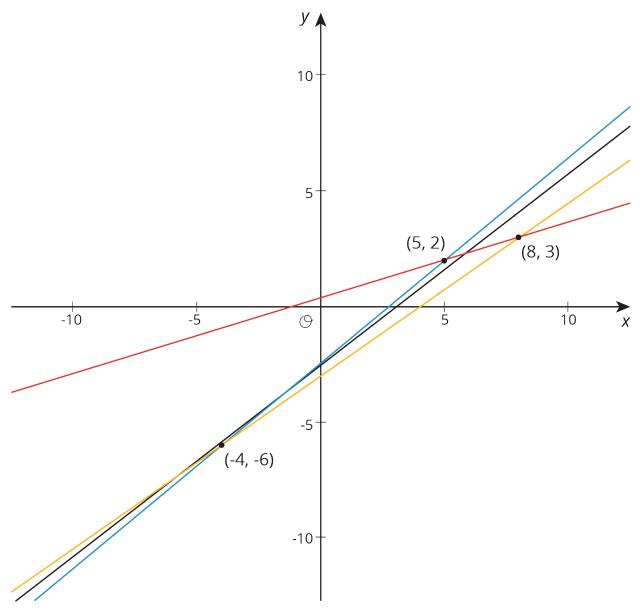
1 Estimating Slope (Warm up)

Student Task Statement

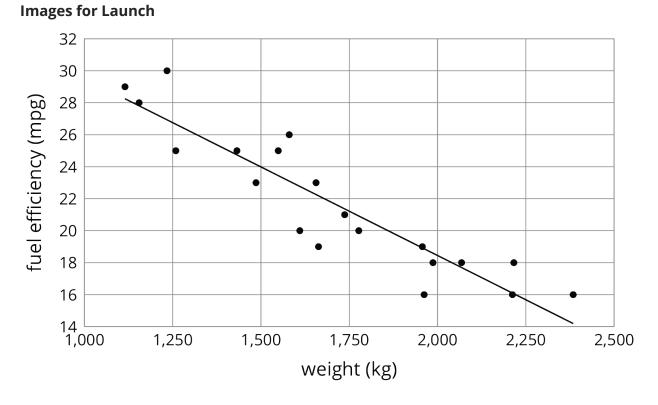
Estimate the slope of the line.



Activity Synthesis



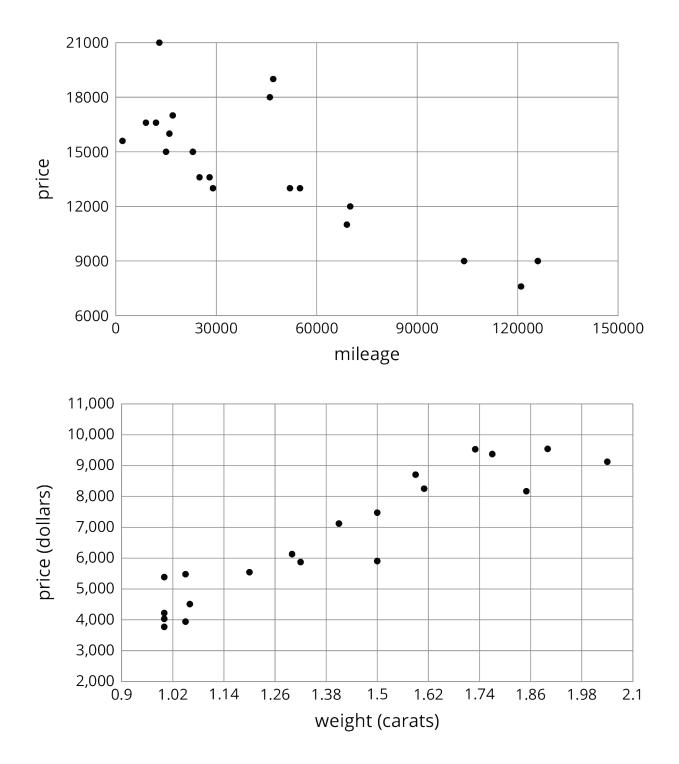
2 Describing Linear Associations

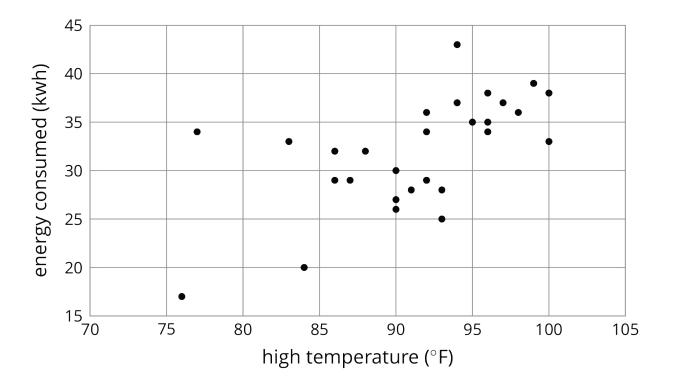


Student Task Statement

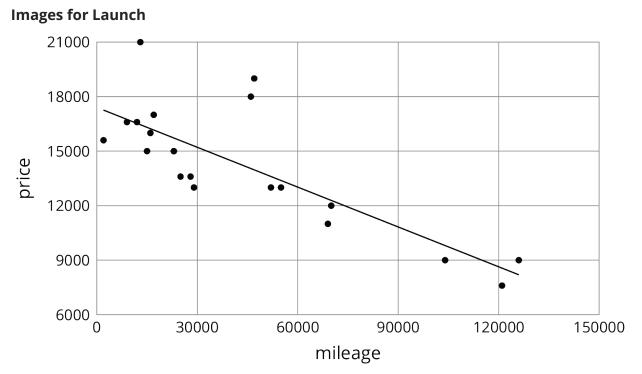
For each scatter plot, decide if there is an association between the two variables, and describe the situation using one of these sentences:

- For these data, as ______ increases, ______ tends to increase.
- For these data, as ______ increases, ______ tends to decrease.
- For these data, ______ and _____ do not appear to be related.





3 Interpreting Slopes

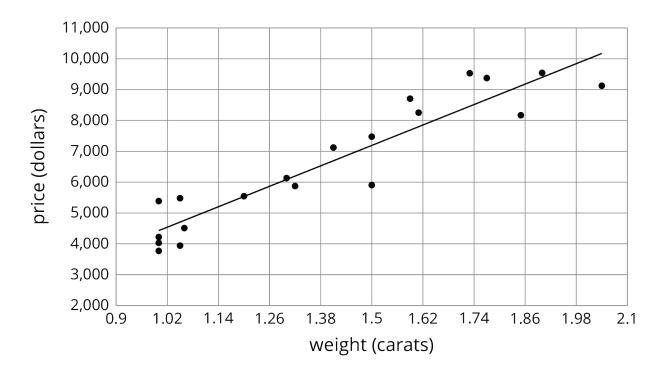


Student Task Statement

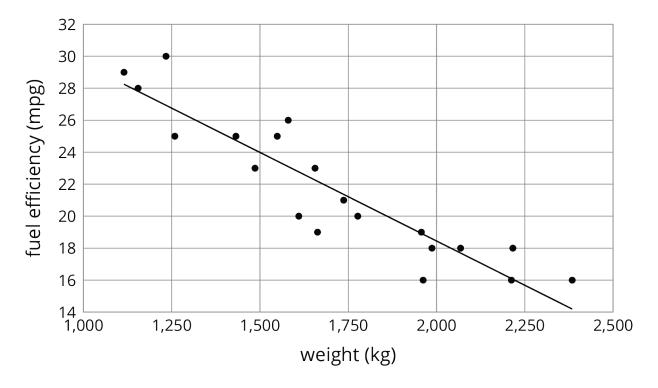
For each of the situations, a linear model for some data is shown.

- 1. What is the slope of the line in the scatter plot for each situation?
- 2. What is the meaning of the slope in that situation?

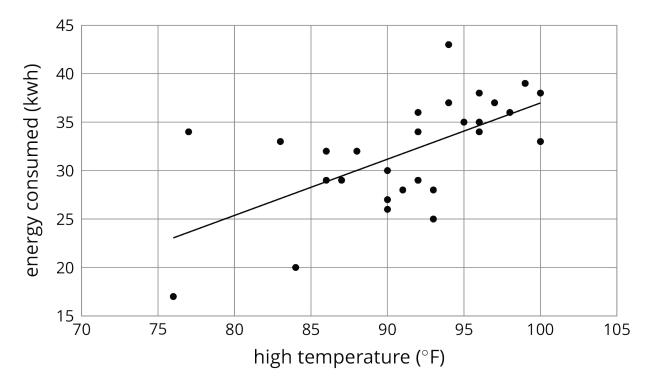
y = 5,520.619x - 1,091.393



y = -0.011x + 40.604



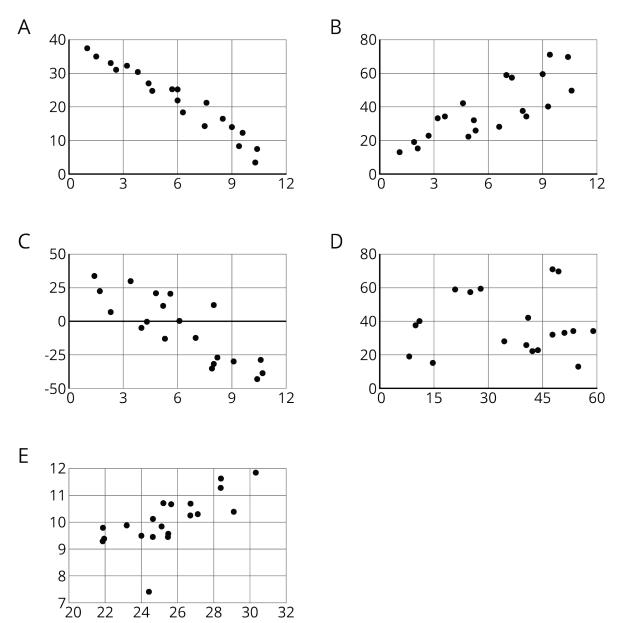
y = 0.59x - 21.912



4 Positive or Negative?

Student Task Statement

1. For each of the scatter plots, decide whether it makes sense to fit a linear model to the data. If it does, would the graph of the model have a positive slope, a negative slope, or a slope of zero?



2. Which of these scatter plots show evidence of a positive association between the variables? Of a negative association? Which do not appear to show an association?

