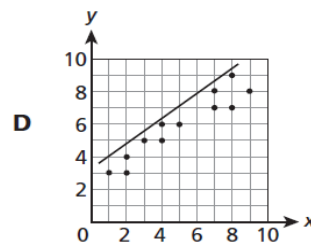
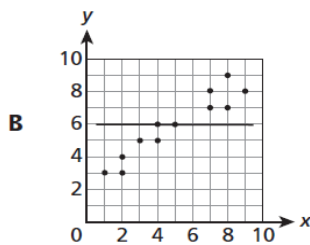
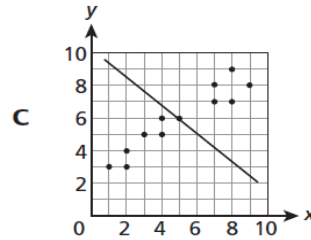
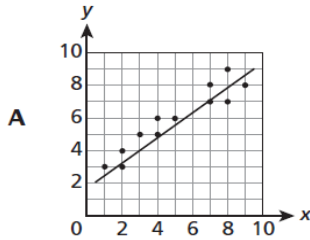


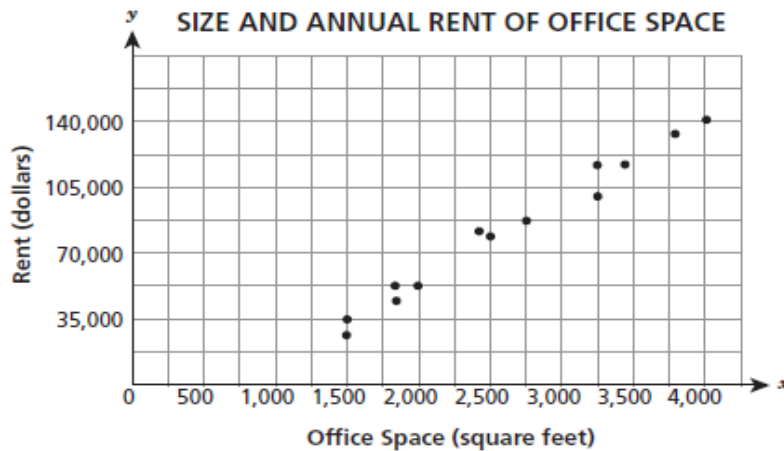
Name: _____
8.SP.2

Date: _____

_____1. Which line represents the best fit for the scatter plot data? (2014)



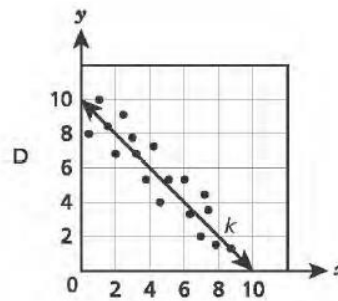
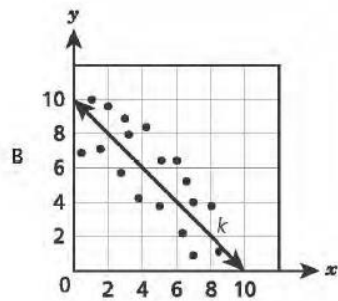
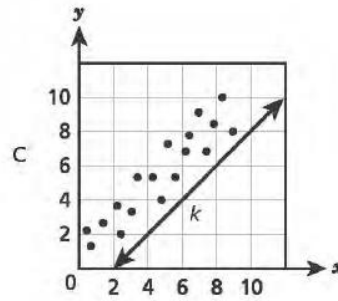
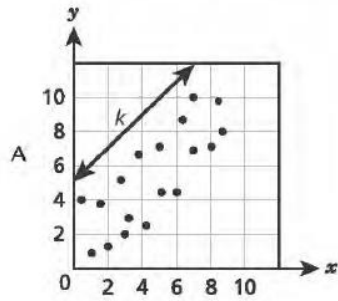
_____2. The scatter plot shows the sizes and annual rents of some office spaces in the downtown area of a city. (2014)



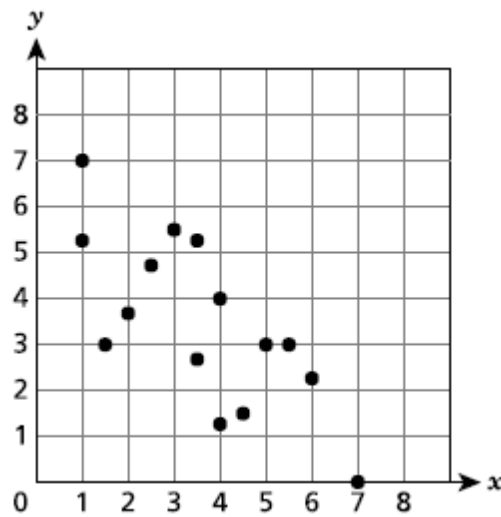
What would the line of best fit reveal about these data?

- A. There is a strong negative relationship between the cost of rent and the size of the office space.
- B. There is a strong positive relationship between the cost of rent and the size of the office space.
- C. There is a weak positive relationship between the cost of rent and the size of the office space.
- D. There is a weak negative relationship between the cost of rent and the size of the office space.

3. Line k is the line of best fit for a set of data on a scatter plot. The data show a strong linear association. Which scatter plot **best** represents these data and line k ? (2016)



4. A set of data is represented on the scatter plot below. (2018)



Which equation **best** models the set of data?

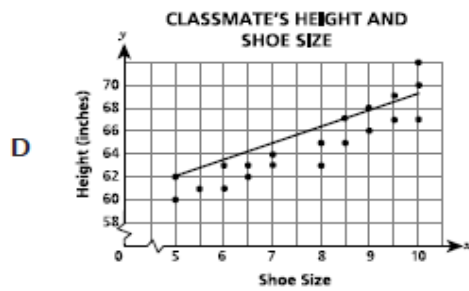
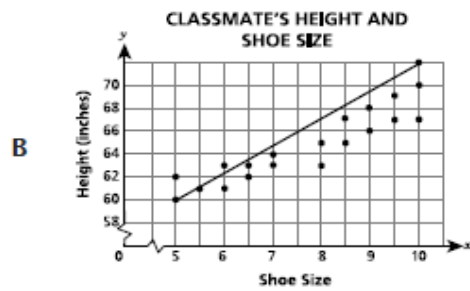
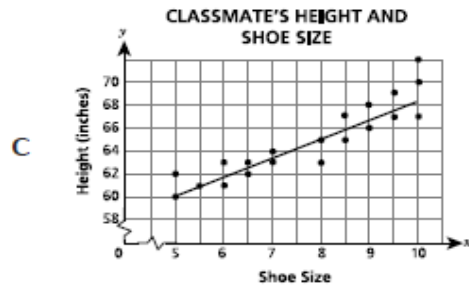
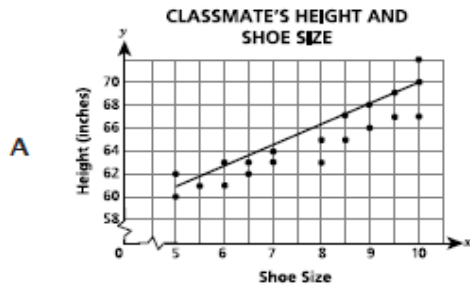
A. $y = -\frac{3}{4}x + 6$

B. $y = \frac{3}{4}x - 6$

C. $y = -6x + \frac{3}{4}$

D. $y = 6x - \frac{3}{4}$

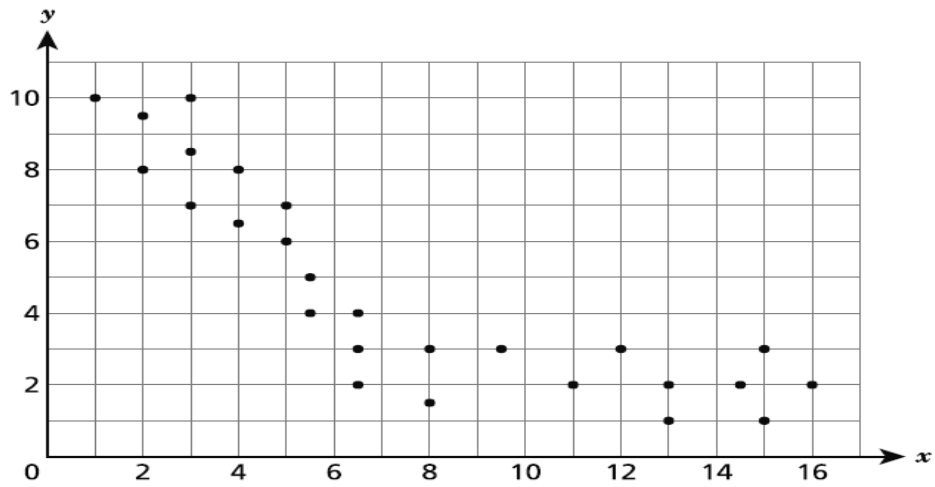
5. The shoe sizes and the heights for 20 classmates were plotted as ordered pairs on a scatter plot. A line of best fit was drawn to model the data. Which scatter plot shows the most accurate line of best fit? (2019)



6. Which statement **best** describes the data in a scatter plot where the y values are decreasing as the x values are increasing? (2019 and 2021)

- A. The data can best be modeled by a vertical line.
- B. The data can best be modeled by a horizontal line.
- C. The data can best be modeled by a line with a positive slope.
- D. The data can best be modeled by a line with a negative slope.

7. A scatter plot is shown below.



Which statement best explains why these data can or cannot be modeled using a line of best fit?
(2022)

- A. A line would not be appropriate because there is a negative association.
- B. A line would not be appropriate because the points follow a nonlinear pattern.
- C. A line would be appropriate because there is a positive association.
- D. A line would be appropriate because the points follow a nonlinear pattern.