



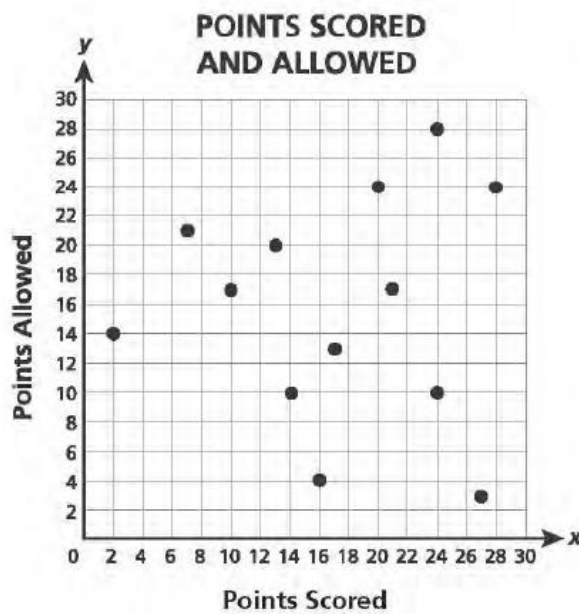
SAMPLES OF STANDARDS STUDENTS ARE LEARNING THIS NINE WEEKS:

8th Grade Math

STANDARDS: 8.SP.1, 8.SP.2, 8.SP.3, 8.SP.4

8.SP.1

The scatter plot below shows the points scored and the points allowed by the Bulldogs football team for several games.

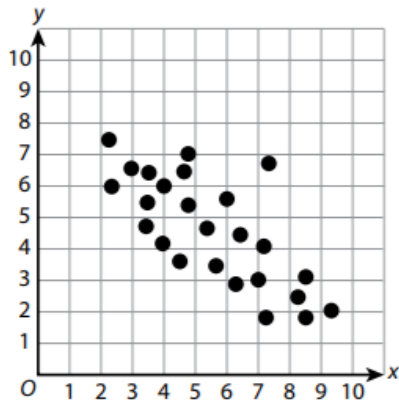


Which association (correlation) best describes the data?

- A no association (correlation)
- B positive association (correlation)
- C negative association (correlation)
- D nonlinear association (correlation)

Correct answer is A.

Which best describes the type of association shown in this scatter plot?



- A no association
- B non-linear association
- C positive linear association
- D negative linear association

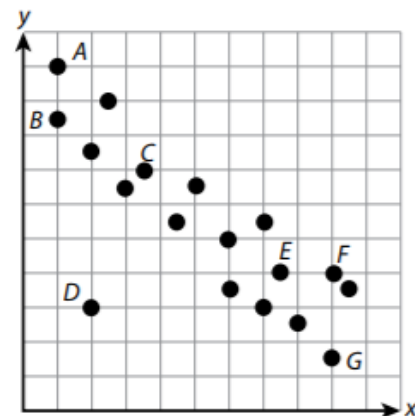
Correct Answer: D

8.SP.2

Through which pairs of points could a trend line be drawn that represents the data?

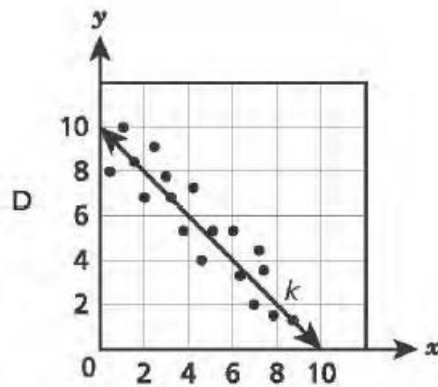
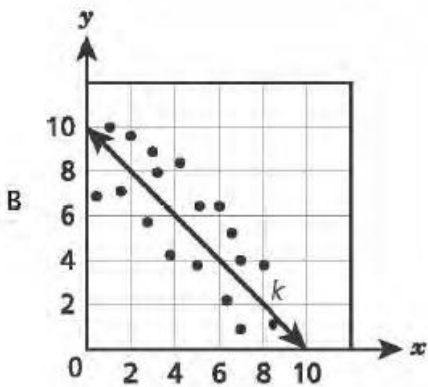
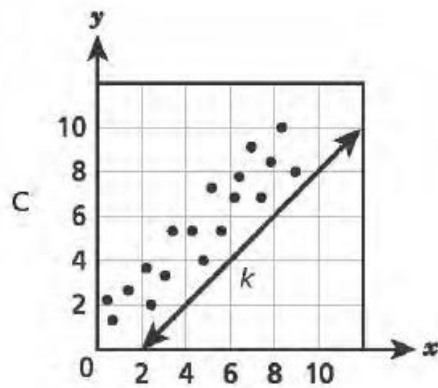
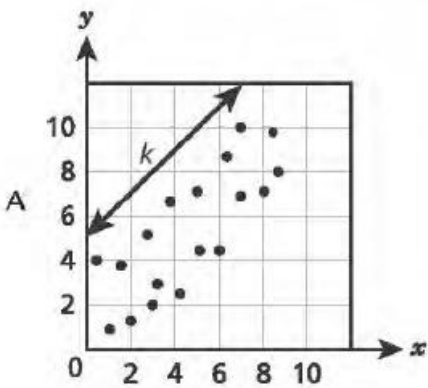
Choose all that apply.

- A points *A* and *F*
- B points *B* and *E*
- C points *B* and *G*
- D points *C* and *E*
- E points *D* and *G*
- F points *E* and *G*



Correct Answer: B, D

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 ?



Answer D is correct.

8.SP.3

A man used a faucet to add water to a pond. The man used the equation $v=3,208m+6,000$ to determine the volume, v , of the pond in milliliters after he had added water for m minutes. What is the meaning of the y-intercept of this equation?

- The volume of the pond increases by 3,028 milliliters each minute.
- The volume of the pond increases by 6,000 milliliters each minute.
- The volume of the pond was 3,028 milliliters before the water was added.
- The volume of the pond was 6,000 milliliters before the water was added.

Keiko and Eric each randomly surveyed people with cell phones. They recorded peoples' ages (a years) and how many texts they send per day on average (t texts). For their respective data, they each drew a line of best-fit and determined its equation. They then compared equations and made inferences based only on the equations they calculated.

Student	Trend Line
Keiko	$t = -1.63a + 92.14$
Eric	$t = -1.05a + 80.97$

Determine whether you agree or disagree, based only on the equations above, with the inferences drawn below.

Choose *Agree* or *Disagree* for each inference.

- a. The younger a person is, the more texts per day he or she is likely to send. Agree Disagree
- b. The people Keiko surveyed send more texts, on average, than the people Eric surveyed. Agree Disagree
- c. The y-intercepts have no relevant meaning because people who are 0 years old cannot send texts. Agree Disagree
- d. Keiko's trend line suggests that for every 1.63-year decrease in age, people send an average of about 1 fewer text per day. Agree Disagree
- e. Eric's trend line suggests that for every 1-year increase in age, people send an average of about 1 fewer text per day. Agree Disagree

Correct Answer:

- a. Agree
b. Disagree
c. Agree
d. Disagree
e. Agree

8.SP.4

The Ecology Club was planning to take a field trip either to the seacoast or the mountains. The club president surveyed all of the members to determine the preferred trip. The results are displayed in the table below.

FIELD TRIP SURVEY

Students	Seacoast	Mountains	Total
Seventh-Grade	42	28	70
Eighth-Grade	30	50	80
Total	72	78	150

Which statement is true about the results of the survey?

- A 20% of eighth-grade students preferred the seacoast
- B 32% of seventh-grade students preferred the mountains
- C 40% of students preferred the mountains
- D 48% of students preferred the seacoast

Answer D is correct.

A survey of 160 students is taken to determine whether they play sports and whether they have a job. Of the 71 students who play sports, 28 do not have a job. There are 87 students who have a job.

Approximately what percentage of those surveyed do not have a job and do not play sports? Round your answer to the nearest whole percent.

- A 28%
- B 30%
- C 42%
- D 45%

	Play Sports	Do Not Play Sports
Have Job		
Do Not Have Job		

Answer A is correct.