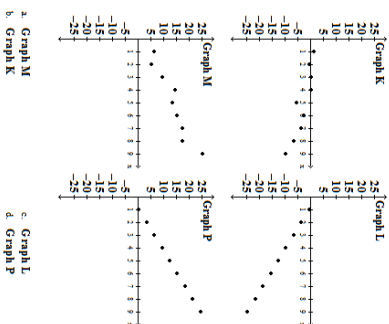


Which graph represents a negative linear association between x and y ?



For which set of data will the scatter plot represent a **positive nonlinear** association between x and y ?

Set K									
x	1	2	3	4	5	6	7	8	9
y	12	8	11	11	5	8	7	8	6

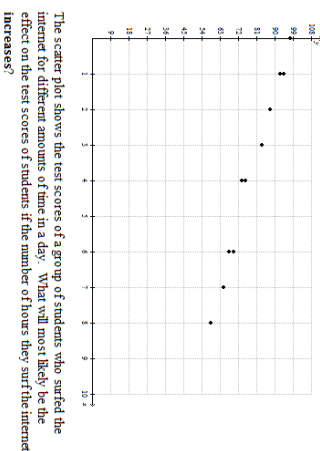
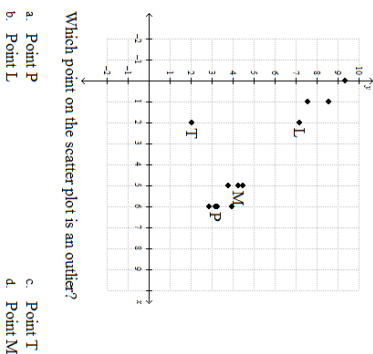
Set L									
x	1	2	3	4	5	6	7	8	9
y	-5	-8	-11	-14	-17	-20	-23	-26	-29

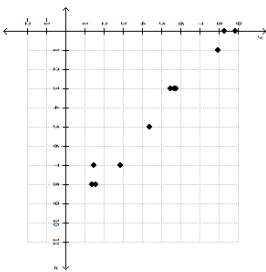
Set M									
x	1	2	3	4	5	6	7	8	9
y	-11	-6	-8	-4	-5	-4	3	4	6

Set P									
x	1	2	3	4	5	6	7	8	9
y	1	3	5	7	9	11	13	15	17

- a. Set P
b. Set M
c. Set K
d. Set L

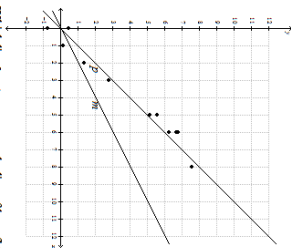
Which point on the scatter plot is an outlier?





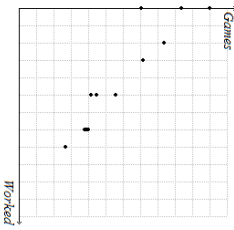
Which two ordered pairs can be joined to draw **most** accurately the line of best fit on this scatter plot?

- (3, 6) and (7, 3)
- (3, 7) and (6, 3)
- (2, 6) and (6, 3)
- (3, 6) and (6, 3)



Which line best represents the line of best fit? The labels for each line is written to the right of the line.

- Line p , because it is closest to most data points
- Line q , because it shows a positive association
- Line m , because it shows a negative association
- Line n , because it is closest to most data points

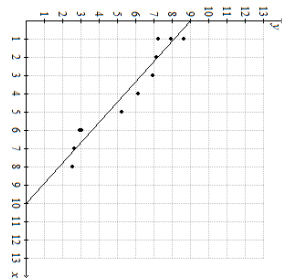


A group of students plotted the amount of time they worked weekly during the holidays and the time they spent playing video games. Which statement best describes the relationship between the time spent working and the time spent playing video games?

- More time worked, more time spent playing video games.
- There is no relationship between time spent working and time spent playing video games.
- More time worked, less time spent playing video games.
- Less time worked, less time spent playing video games.

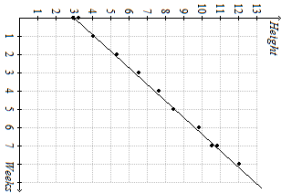
The equation of the line of best fit of a scatter plot is $y = -7x + 3$. What is the slope of the equation?

- 7
- 7
- 3
- 3



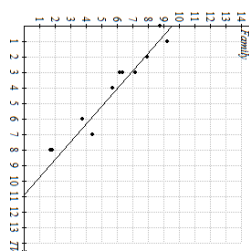
Chris drew the line of best fit on the scatter plot shown above. What is the approximate equation of this line of best fit in slope-intercept form?

- a. $y = -\frac{9}{10}x + 9$
b. $y = \frac{10}{9}x + 10$
c. $y = \frac{9}{10}x + 10$
d. $y = -\frac{10}{9}x + 9$



The graph shows the heights, y (in centimeters), of plants after a certain number of weeks, x . Chris drew the line of best fit on the graph. What would most likely be the approximate height of the plants after 9 weeks?

- a. 11
b. 12.9
c. 11.9
d. 10.4



The scatter plot shows the relationship between the number of hours students spend watching television and the number of hours they spend with family each week. What is the y-intercept of the line of best fit and what does it represent?

a. 9.5 hours; the number of hours students watch television in a week when they do not spend time with family
b. 10.9 hours; the number of hours students spend with family in a week when they do not watch television
c. 10.9 hours; the number of hours students watch television in a week when they do not spend time with family
d. 9.5 hours; the number of hours students spend with family in a week when they do not watch television

	Like Singing	Don't Like Singing	Total
Like Jumping rope	35	30	65
Don't Like Jumping Rope	50	???	125
Total	85	105	190

The table shows the number of students in a school who like singing and/or like jumping rope. What is the missing number in the table?

- a. 90
b. 76
c. 75
d. 100

The two-way table shows the number of students in a school who bring their lunch and/or who ride the bus. How many fewer bring lunch than ride the bus?

	Bring Lunch	Don't Bring Lunch	Total
Ride Bus	35	43	78
Don't Ride Bus	40	60	100
Total	75	103	178

- a. 6
b. 5
c. 3
d. 4

The table shows the number of students in a school who like dogs and/or parrots. What is the relative frequency, by row, of students who like both dogs and parrots?

	Like Dogs	Don't Like Dogs	Total
Like Parrots	38	44	82
Don't Like Parrots	50	54	104
Total	88	98	186

- a. 45.3%
b. 46.3%
c. 48.3%
d. 49.3%

A group of students were surveyed to find out if they like working as a camp counselor and/or as a lifeguard during summer break. The results of the survey are shown below.

92 students like working as a camp counselor

50 students like working as a camp counselor but do not like working as a lifeguard

84 students like working as a lifeguard

63 students do not like working as a camp counselor or lifeguard

Four students created the table below to represent the data. Which represents camp counselor and LG represents lifeguard. Which student's table is correct?

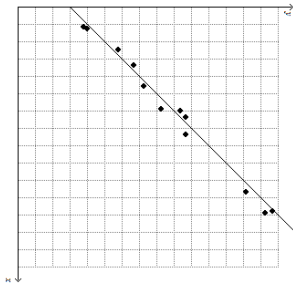
	LG	Don't LG	Total
Camp	42	48	90
Don't Camp	42	42	84
Total	84	90	174

	LG	Don't LG	Total
Camp	42	48	90
Don't Camp	42	42	84
Total	84	90	174

	LG	Don't LG	Total
Camp	42	48	90
Don't Camp	42	42	84
Total	84	90	174

	LG	Don't LG	Total
Camp	42	48	90
Don't Camp	42	42	84
Total	84	90	174

- a. Brandon
b. Amy
c. Janey
d. Steve



Is the line in the graph positioned well to be a line of best fit? Support your answer. Include at least three complete sentences in your response.