

1-6 Study Guide and Intervention

Scatter Plots

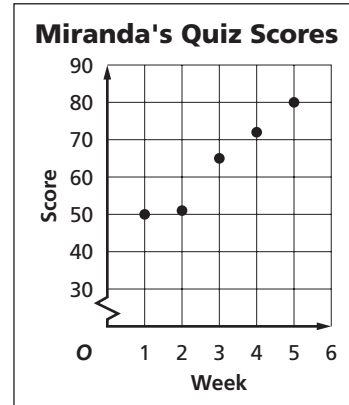
Construct Scatter Plots A **scatter plot** is a graph that shows the relationship between two sets of data. In a scatter plot, two sets of data are graphed as ordered pairs on a coordinate system.

Example

SCHOOL The table shows Miranda’s math quiz scores for the last five weeks. Make a scatter plot of the data.

Since the points are showing an upward trend from left to right, the data suggest a positive relationship.

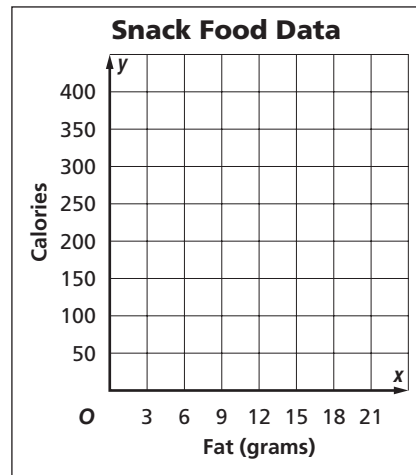
Week	Score
1	50
2	51
3	65
4	72
5	80



Exercise

FOOD The table below shows the fat grams and calories for several snack foods.

Food	Fat grams per serving	Calories per serving
doughnut	13	306
corn chips	13	200
pudding	3	150
cake	13	230
snack crackers	6	140
ice cream (light)	5	130
yogurt	2	70
cheese pizza	18	410

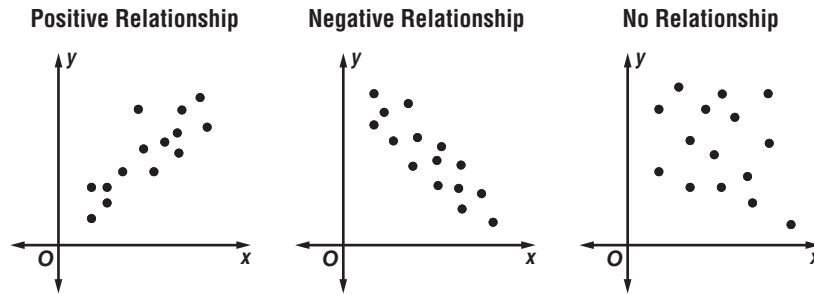


1. Make a scatter plot of the data in the table.

1-6 Study Guide and Intervention (continued)

Scatter Plots

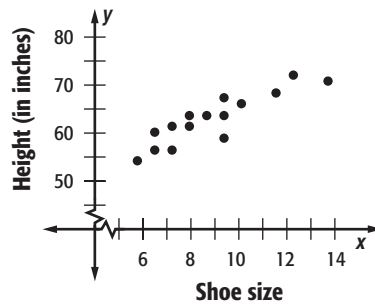
Analyze Scatter Plots A scatter plot may show a pattern or relationship of the data.



Example

SHOE SIZE AND HEIGHT Determine whether a scatter plot of shoe size and height of people at a gym might show a *positive*, *negative*, or *no* relationship. Explain your answer.

Shoe Size and Height



Height affects shoe size. A person's shoe size increases as their height increases. Therefore, a scatter plot of the data would show a positive relationship.

Exercises

Determine whether a scatter plot of the data for the following might show a *positive*, *negative*, or *no* relationship. Explain your answer.

- fat grams and the amount of calories in food
- time spent relaxing and blood pressure levels
- age of a child and number of siblings
- age of a tree and its height