Chapter 9 Review

Do Now

Find the mean, median, mode, and range.

33, 76, 86, 92, 86

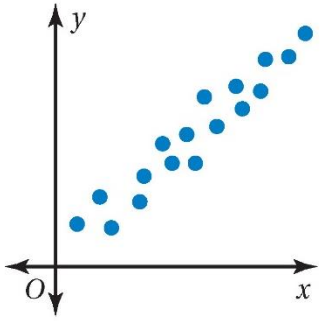
Mean = _____

Median = _____

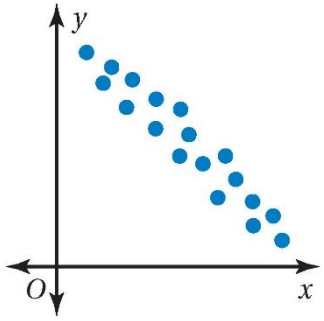
Mode = _____

Range = _____

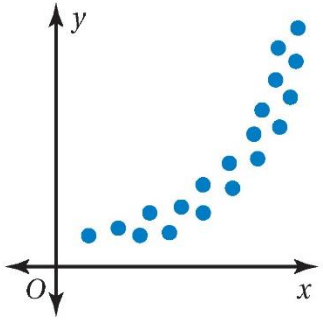
Kinds of Scatter Plots



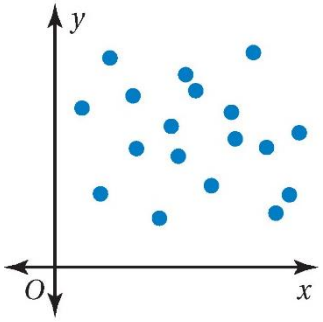
The points lie close to a line. As x increases, y increases.



The points lie close to a line. As x increases, y decreases.



The points lie in the shape of a curve.



The points show no pattern.

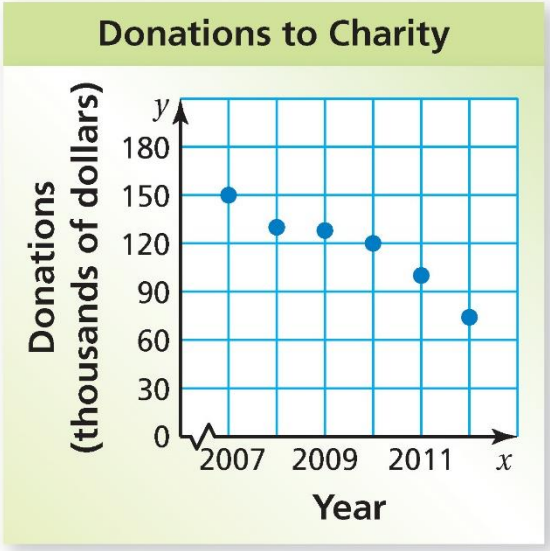
9.1 – Scatter Plots

1) CHARITY The scatter plot shows the amount of money donated to a charity from 2007 to 2012. *(Section 9.1)*

a. In what year did the charity receive $150,000?

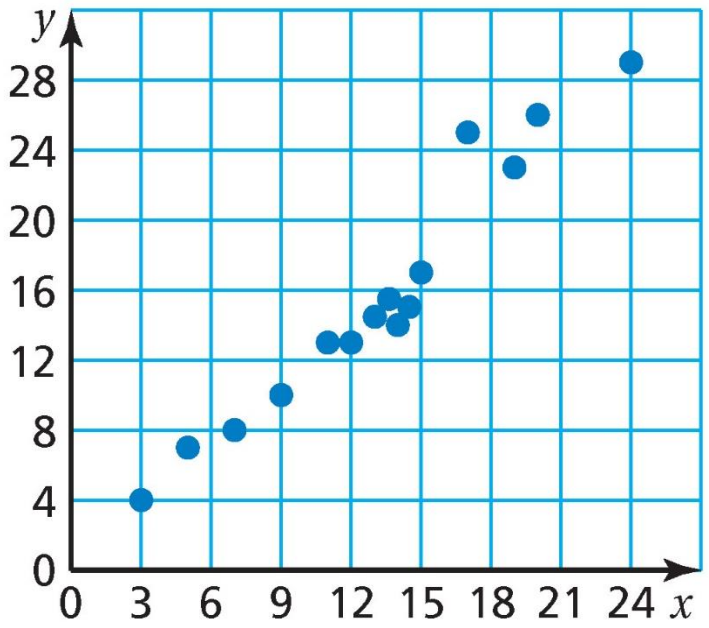
b. How much did the charity receive in 2010?

c. Describe the relationship shown by the data.



9.1 – Scatter Plots

2) Describe the relationship between the data. Identify any outliers, gaps, or clusters.



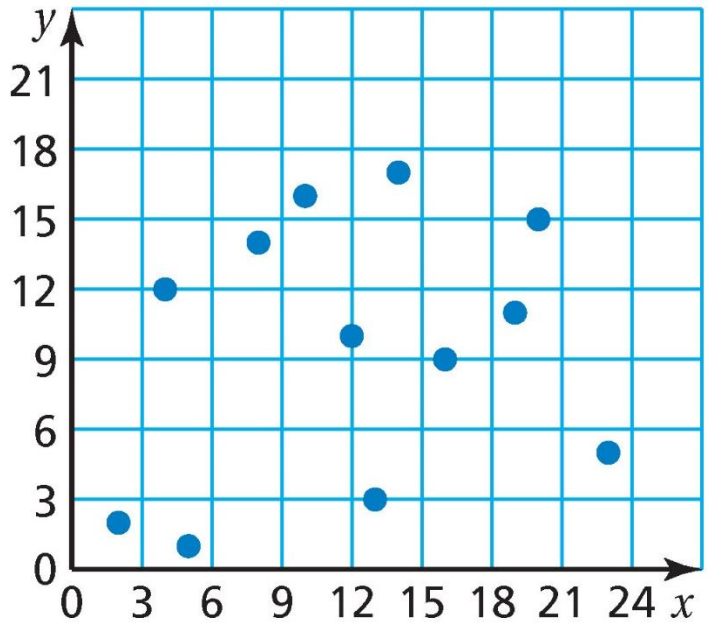
Outliers

Gaps

Clusters

9.1 – Scatter Plots

3) Describe the relationship between the data. Identify any outliers, gaps, or clusters.



Outliers

Gaps

Clusters

9.2 – Lines of Fit

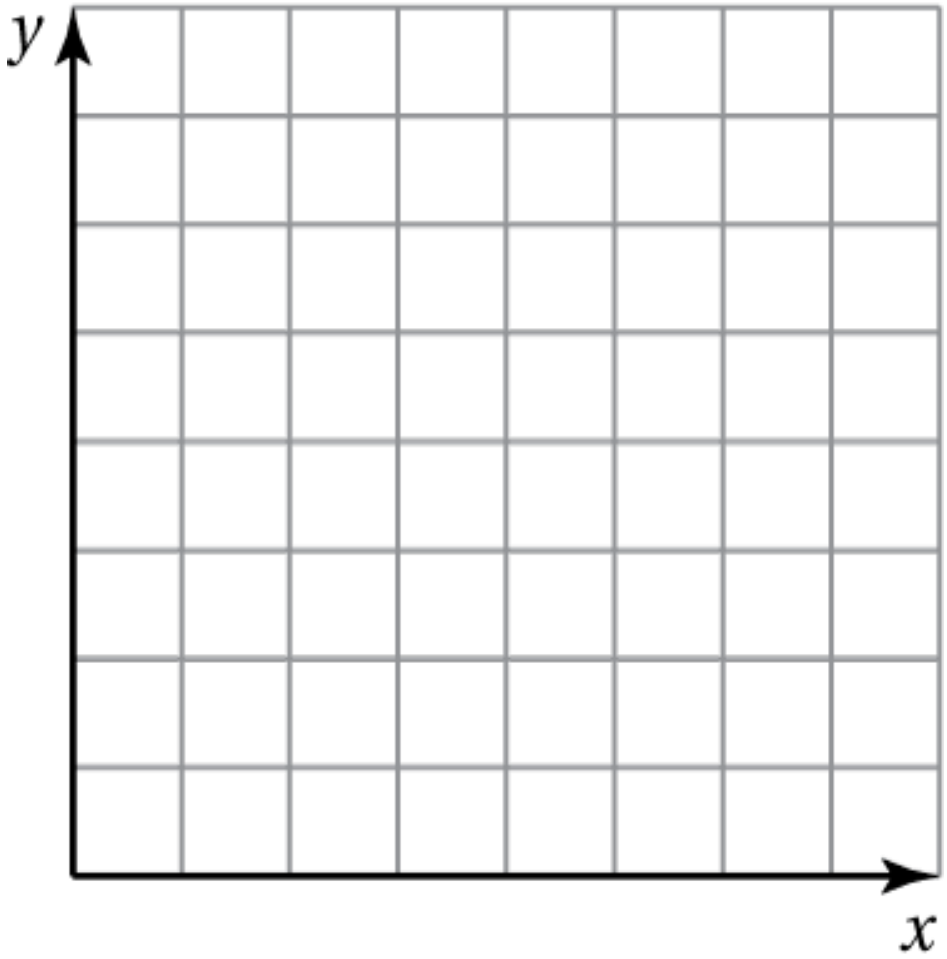
4) BLUEBERRIES The table shows the weights y of x pints of blueberries.

Number of Pints, x	0	1	2	3	4	5
Weight (pounds), y	0	0.8	1.50	2.20	3.0	3.75

a) Graph the data in the table.

b) Draw a line that you think best approximates the points.

c) Write an equation for your line.



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Number of Pints, x	0	1	2	3	4	5
Weight (pounds), y	0	0.8	1.50	2.20	3.0	3.75

d) Use the equation to predict the weight of 10 pints of blueberries.

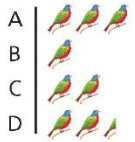
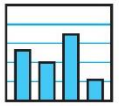
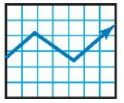
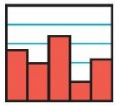
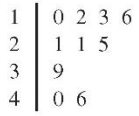
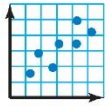
e) Blueberries cost $2.25 per pound. How much do 10 pints of blueberries cost?

9.3 – Two Way Tables

5) **RECYCLING** The results of a recycling survey are shown in the two-way table. Find and interpret the marginal frequencies. *(Section 9.3)*

		Recycle	
		Yes	No
Gender	Female	28	9
	Male	24	14

9.4 – Choosing a Data Display

Data Display	What does it do?
Pictograph	shows data using pictures 
Bar Graph	shows data in specific categories 
Circle Graph	shows data as parts of a whole 
Line Graph	shows how data change over time 
Histogram	shows frequencies of data values in intervals of the same size 
Stem-and-Leaf Plot	orders numerical data and shows how they are distributed 
Box-and-Whisker Plot	shows the variability of a data set by using quartiles 
Dot Plot	shows the number of times each value occurs in a data set 
Scatter Plot	shows the relationship between two data sets by using ordered pairs in a coordinate plane 

9.4 – Choosing a Data Display

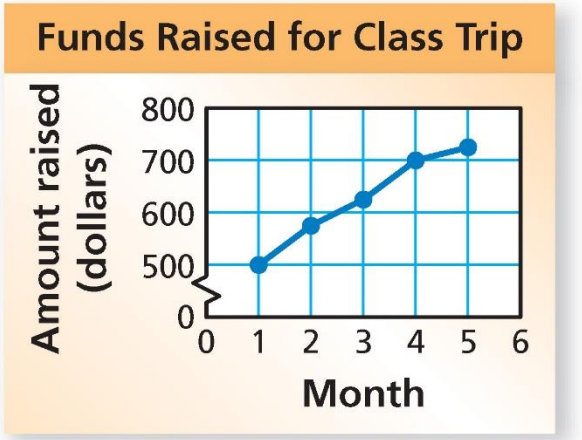
Choose an appropriate data display for the situation. Explain your reasoning.

6) the percent of band students in each section of instruments

7) a company's profit for each week

9.4 – Choosing a Data Display

8)



FUNDRAISER The line graph shows the amount of money that the eighth-grade students at a school raised each month to pay for a class trip. Is the graph misleading? Explain. *(Section 9.4)*