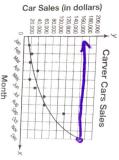
Unit 4 Assessment • Describing Data

plotted the reading on the scatter plot below

A science class did an experiment in which groups of students weighed various volumes of water. Each group filled one plastic beaker with a certain volume of water. Each group placed its beaker of water on a scale and

Measuring the Mass of Water

The graph below shows the past 9 months of sales for the Carver Cars company.



is the best prediction of Carver Cars sales in Using the exponential curve of best fit, what

- \$40,000
- \$120,000
- \$170,000
- ь (U \$800,000
- **123.5** The eight students on Team 1 had collected 195, 87, 62, 271, 103, 149, 51, and 70 pennies 2. The nine students on Team 2 had collected 46, average number of pennies per student wins of the competition, the team with the greater collect as many pennies as possible. At the end split into two teams, and each student tried to class field trip. In the competition, the class was School held a competition to raise money for a The fourth-grade class at Wilshire Elementary
- 429, 101, 72, 33, 100, 64, 58, and 125 pennies Which team won the competition?
- A Team 1

- P
- Team 2
- The teams were tied
- There is not enough information.

Go On ▶

Bluebirds baseball team are: The heights, in inches, of the players on the

ω.



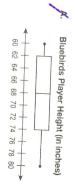
Mass (in grams)

the Bluebirds players? inches. Which box plot represents the heights of is 68 inches, and the upper quartile height is 70 quartile height is 65 inches, the median height The manager determined that the team's lower

The equation of the line of best fit is y = x + 120. What does the y-intercept of this equation represent?

Volume of Water (in milliliters)

120 mL was the minimum volume of water measured.



120 g was the mass of the scale. 120 g was the mass of the beaker.

Çī,

A class survey asked students how many first cousins they have. The responses are listed below

0-1:4

Unit 4

- Bluebirds Player Height (in inches) 62 64 66 68 70 72 74 76 78 80
- D. Bluebirds Player Height (in inches) 62 64 66 68 70 72 74 76 78 80

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Number of Cousins

Which histogram best represents the results of the survey?

6, 2, 0, 9, 0, 6, 1, 4, 4, 5, 1, 3, 8, 9, 4, 8, 7





Ō

Number of Cousins



Frequency of Cousins



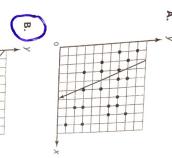


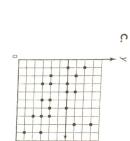
Frequency Frequency of Cousins 0-1 1-2 2-3 3-4 4-5

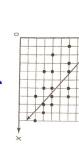


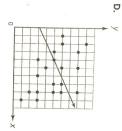
Number of Cousins

5. Which of the following best represents a scatter plot and its line of best fit?









not a great representation but the best answer of these answer of these

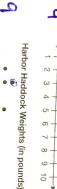
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Mcan 4.24

Mcan 4.24

Mcan 4.24

Harbor Hadd



med: 3 1234

Which is true about the two sets of weights?

The range of weights at Seashore Fish is greater than the range of weights at Harbor Haddock.

The median weight at Harbor Haddock is greater than the mean weight at Seashore Fish.

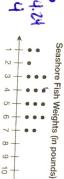
- The maximum weight at Seashore Fish is greater than the maximum weight at Harbor Haddock.
- D. The mean weight at Harbor Haddock is greater than the median weight at Seashore Fish.

Two fish markets, Seashore Fish and Harbor Haddock, compiled dot plots of the weights of fish they had for sale in their market on one day.

The scatter plot below was graphed from a data set containing five data points.

The dot plots are shown below.

Y



Which is closest to the correlation coefficient of the relationship shown in the graph?

-0.12 0.03

In calculator]

1st: Press data and fill in table with orderea pairs
2nd: Press 2nd data and

choose "2-Var stats"

3rd: Scroll down to

the "r". This is

the correlation

coefficient.

Go On ▶

Go On ▶

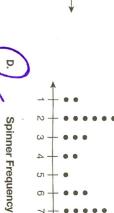
Go On ▶

While playing a board game that uses a spinner to determine the number of spaces that a game piece advances, Hernan and Maddy kept count of the number of times that the spinner landed on each number. They made the following chart during the game.

8	7	0	Cr	4	ω	2	1.	Spinner-space
2	5	ω	7	2	3	1	5	Numberoliume
							_	

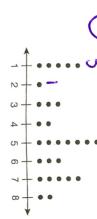
Which dot plot best represents the distribution of spin results during the game?

Spinner Frequency



Β.

Spinner Frequency



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10. A small university held elections to determine a new student body president. A total of 525 students voted. Liska won the election with 212 votes. In the junior class, 72 out of 158 students voted for Eunice. Mustafa received the most votes from voters in the senior class. Which table represents the data described?

Total	Seniors	Juniors	opnomores	Commen	Frochmon
196	90	46	50	10	Біріспілі
212	12	40	39	121	
117	11	72	28	6	Eunice
525	113	158	117	137	Total

iotal	Seniors	Juniors	doc	Fres	
	ors	ors	Sophomores	Freshmen	
117		46	50	10	Mustafa
212	12	40	39	121	Liska
196	90	72	28	6	Eunice
525	113	158	117	137	Total

	The second secon	PIPICHIAL	LISKA	Eunice	Total
Image: light of the property of the pro	Freshmen	10	6	121	127
Informeres 50 28 39 rs 46 72 40 prs 90 11 12 prs 106 117 200	SI			121	13/
90 11 12	opnomores	50	28	39	117
ors 90 11 12	liminus				
90 11 12	Juniors	46	72	40	158
106 117 22	Spriore	3			100
106 777	COLLICIO	06	=	12	113
	Total	301	7177	23	

lotal	Seniors	Juniors	Sophomores	Freshmen	
196	90	46	50	10	Mustafa
212	12	40	39	121	Liska
117	11	28	72	6	Eunice
525	113	114	161	137	Total

= Two histograms are shown below.



Histogram 2



Which is most likely true about the data?

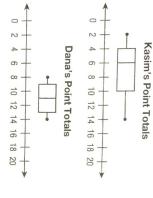
- The mean absolute deviation of the data sets is the same. The ranges of the data sets are the same
- The outliers in Histogram 2 affect the median more than the mean.
- The mean in Histogram 2 is smaller than the mean in Histogram 1

12. Kasim and Dana both play basketball. The individuals score during each game. In the first 5, 8, 7, 14, 2, 3, and 5 points. Dana has scored eight games of the season, Kasim has scored 12, league has been keeping track of the points that to represent their point totals are shown below 10, 12, 8, 10, 14, 13, 8, and 13 points. Box plots

13. In a state government, senators and representatives voted on a bill that was proposed. Out of 50 senators,

35 voted for and 15 voted against the bill. Among 100 representatives, 40 voted for and 60 voted against the

same bill. Which two-way relative frequency table best represents the distribution of votes?



Representatives | 0.23

0.27

0.67

Senate brown

0.10

For Against Total

Representatives

0.40

0.50

0.50

For Against Total

0.50

0.50 0.10 0.40 Representatives 0.40

1.10

0.90 0.60

> Representatives Senate

0.50

0.50

1.00 0.67 0.70

0.30

For Against Total

(i

For

Against Total

0.33

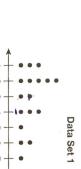
righter

Which data set has a greater mean absolute deviation?

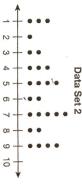
- ® Þ Dana's Point Totals
- Kasim's Points Totals The mean absolute deviations are equal.
- D. There is not enough information

	8 20	+
14.		
Two dot plots are graphed below.		





Unit 4



Which of the following is most likely true about the data sets they represent?

- The range of Data Set 2 is greater than the range of Data Set 1 The median of Data Set 2 is less than the median of Data Set 1.
- The modes of Data Sets 1 and 2 are equal.
- The mean of Data Set 2 is greater than the mean of Data Set 1

Go On ▶

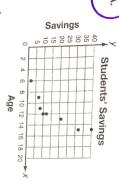
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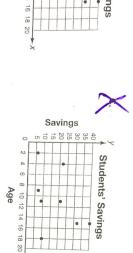
43

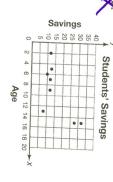
- 15.
- A survey was done to study the amount of money that students have saved. Students were each asked their age and the amount of money they have saved. The chart below shows the responses from the survey.

12	15	. 11	12	6	15	. 13	9	Age
10	32	00	12	2	40	21	7	Savings (\$)

Which scatter plot best represents the data?







Savings

Age

40 35 30 25 20 10

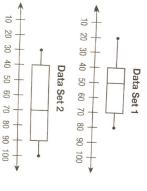
Students' Savings

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16. Box plots representing Data Set 1 and Data Set 2 are shown below.

17.

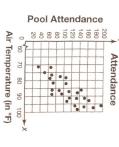


Which is true about the data sets?

Data Set 1 exhibits a greater spread. 2 are 30 and 50 respectively; therefore, The interquartile ranges of Data Sets 1 and

- The interquartile ranges of Data Sets 1 and 2 are 30 and 50 respectively; therefore, Data
- The interquartile ranges of Data Sets 1 and 2 are 60 and 70 respectively; therefore, Data Set 1 exhibits a greater spread. Set 2 exhibits a greater spread.
- The interquartile ranges of Data Sets 1 and 2 Set 2 exhibits a greater spread. are 60 and 70 respectively; therefore, Data
- the relationship between pool attendance and air temperature? Wigh Correlations Based on the scatterplot, which best describes
- Increase in air temperature is directly caused by pool attendance.
- pool attendance and air temperature. There is a positive correlation between
- Ō attendance and air temperature. There is no correlation between pool

the summer. The results are plotted on the A community pool manager tracked air scatter plot below. temperature and pool attendance throughout Summer Pool



- Increase in pool attendance is directly Coursely caused by increased caused by increased air temperature.
- Unit 4

4

Go On ▶