DIGITAL

NAME		DATE				
Mod	lule Test		Module 1	9		
Fill in the blank	s with the term tha	t best complet	tes each statement.			
		-				
<b>2.</b> A	<b>2.</b> A graph is often called a pie chart.					
	data is indicated by the					
4. The medians	of each half of the da	ata in a set are <sup>1</sup>	the			
5. If the data in	a set is close togeth	er, the deviation	will be			
Determine whe	ther the following s	tatements true	e or false:			
6. It is possible	to have no mode for	a given data se	t			
7. It is possible	to have no median fo	or a given data s	set			
8. It is possible	to have two means for	or a given data :	set			
9. The mean wi	II be affected by an o	utlier.				
10. The mean ar	nd median of a set wil	l always be the	same value.			
11. Deviation fro	m the mean may be p	oositive or negat	tive			
12. The sum of t	he deviations from th	e mean is alway	/s zero			
13. The horizont	al axis represents per	iods of time for	a line graph			
14. The whiskers	s of a box-and-whisker	plot are always	s the same length			
15. The depende	ent variable in a scatte	er plot is graphe	ed on the horizontal axis.			
Choose the cor	rect response to co	omplete each o	of the following:			
16. The value that	at occurs most often					
a. mean	<b>b.</b> median	<b>c.</b> mode	<b>d.</b> range			
<ul> <li><b>17.</b> The median for a data set containing an even number of values is found by</li> <li><b>a.</b> no median in this case</li> <li><b>c.</b> removing an outlier and cho middle value</li> </ul>						
<b>b.</b> having two	o medians—two midd	le values	d. averaging two middle values			
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## DIGITAL

	-		the part represente c. all except the first digit	-
	he best graph to . line graph	compare data am <b>b.</b> bar graph		<b>d.</b> scatter plot
	he best graph to . line graph	show the relation <b>b.</b> bar graph	ship between two s <b>c.</b> circle graph	ets of data is a <b>d.</b> scatter plot
	<b>c</b> .	between points on <b>b.</b> a decrease	a line graph indica <b>c.</b> no change	tes <b>d.</b> a sharp change
	a circle graph, f . one-quarter of the circle	the sector with a c <b>b.</b> half of the circle	center angle of 90° c. three-quarters of the circle	represents <b>d.</b> the entire circle
	he amount of da . 25%	ta within the interq <b>b.</b> 50%	uartile range is <b>c.</b> 75%	<b>d.</b> 100%
de a. <b>25.</b> A	ecreasing as the . is positive line of fit can no	independent varia <b>b.</b> is negative	of data is such tha able is increasing, the c. does not exist; no correlation c. compare	
			parts to whole the from 60 mi/h to	predictions a complete stop is given 56, 158, 167. Find the
a	<b>a.</b> mean			<b>b.</b> median
C.	<b>c.</b> mode			<b>d.</b> deviations from the mean
e	e. mean absolute deviation			f. minimum and maximum
g	<b>g.</b> Q <sub>1</sub>			<b>h.</b> Q <sub>3</sub>
i.	i. range			j. interquartile range
k.	k. stem-and-leaf plot			I. box-and-whisker plot
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Module 19

Test A

## DIGITAL

**27.** The average number of cases of lyme disease in Delaware, per 1,000 people, is given as follows for a 10-year period: 1992 was 47.9; 1993 was 49.1; 1994 was 51.2; 1995 was 46.1; 1996 was 41.6; 1997 was 38.8; 1998 was 36.0; 1999 was 32.1; 2000 was 27.4; and 2001 was 24.7.

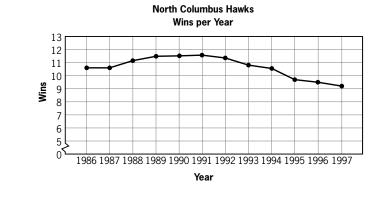
a. Create a scatter plot.

b. What type of correlation does the graph represent?

c. Draw a line of fit. List two possible points of the scatter plot through which

it crosses.

28. The line graph shows the number of wins by the North Columbia Hawks from 1986 to 1997.



a. What trend is displayed on the graph? \_\_\_\_

- **b.** In what year did they have the most wins?
- c. During what two consecutive years was the number of wins the same?

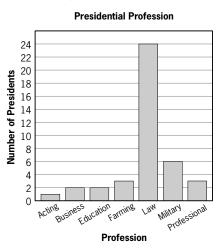
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Module 19

Test A

## 29. The bar graph shows the occupational areas of the United States Presidents.



a. In what profession were most of the United States Presidents?

b. In what profession was the least number of United States Presidents?

c. What profession(s) was(were) attributed to two United States Presidents?

## Answer the following problems with complete sentences:

**30.** Define "central tendency" and list the three statistical measures studied in this

lesson which measure it.

**31.** Explain the difference between range and interquartile range. \_\_\_\_

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Module 19

Test A