vai A) B) C)	describes how the dependent variable depends on the independen riable. model relation function percentage
de _l A)	hen considering height and age, height is the dependent variable because height pends upon age. True False
A) B)	in a function is the percentage increase in the action from one value of the independent variable to another. rise decline relation change
div A) B) C)	the average growth rate of a function over an interval is the change in the function wided by the change in the: dependent variable independent variable percent increase percent decrease
5	Interpolation Extrapolation

6.	is the process of estimating unknown values beyond known data
	points using the average growth rate.

- A) Relation change
- B) Interpolation
- C) Extrapolation
- D) Absolute change
- 7. Percentage change can provide information that may not be readily apparent from the raw data.
 - A) True
 - B) False
- 8. The following table shows the world population (in billions) on the given date:

Date	1950	1960	1970	1980	1990	2000
Population	2.56	3.04	3.71	4.45	5.26	6.08

What is the dependent variable?

- A) Date
- B) Population
- C) Percent change
- D) Average growth rate
- 9. The following table shows the world population (in billions) on the given date:

Date	1950	1960	1970	1980	1990	2000
Population	2.56	3.04	3.71	4.45	5.26	6.08

What is the percent change from 1960 to 1970?

- A) 6.7%
- B) 19%
- C) 22%
- D) 25%

10. The following table shows the world population (in billions) on the given date:

Date	1950	1960	1970	1980	1990	2000
Population	2.56	3.04	3.71	4.45	5.26	6.08

Calculate the average growth rate (in millions) from 1990 to 2000.

- A) 820 million people per year
- B) 82 million people per year
- C) 8.2 million people per year
- D) 0.82 million people per year

11. The following table shows the number of customer complaints against a U.S. car rental company during the given year:

Date	2002	2004	2006	2008	2010
Number of complaints	1123	1304	1487	1398	1651

What is the percent change from 2004 to 2006?

- A) 12%
- B) 14%
- C) 16%
- D) 18%

12. The following table from the World Health Organization shows the cumulative number of Severe Acute Respiratory Syndrome (SARS) cases reported on certain dates in March and April 2003:

Date	March 26	March 31	April 5	April 10	April 15
Number of cases	1323	1622	2416	2781	3235

What was the percent change from April 5 to April 10?

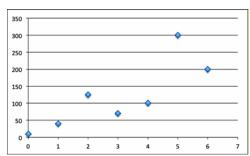
- A) 13.1%
- B) 14.1%
- C) 15.1%
- D) 16.1%

13. In 1949, the inflation rate in the United States was negative, and the value was -2%. If a car cost \$1500 at the beginning of the year, what did it cost at the end of the year?

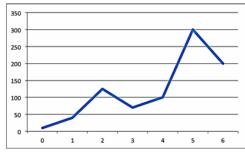
- A) \$1200
- B) \$1470
- C) \$1497
- D) \$1350

14.	being the A) de B) ince C) pe	nount of tax ne: pendent va dependent reent chan terpolation	riable variable ge	e is a fund	etion of yo	our taxab	le income	, with tax	able inco	me
15.	ages of	lowing tab 3 and 5 what garten prog	ho are eni		_					the
	Date		1970	1975	1980	1985	1990	1995	2000	
	Perce	ntage	37.5	48.6	52.5	54.6	59.4	61.8	64.0	-
16.	A	onding to a graph atterplot e chart	is a g a data poi	raph cons	sisting of	isolated p	ooints, wi	th each do	ot	
17.	reasona A) Tr	plots can b ibly display ue llse			_	mbers of	data poin	ts that car	nnot be	
18.	A) lin B) ba C) pic	raight line i ne graph r chart	segments	, we b	egin with	a scatterp	olot and jo	oin the ad	jacent po	ints
19.	A) sta B) po C) ne	reasing line able sitive gative utral	e graph in	dicates a			growth i	rate.		

- 20. A smoothed line graph is made from a ______ by joining data points smoothly with curves instead of line segments.
 - A) line graph
 - B) bar graph
 - C) scatterplot
 - D) pie chart
- 21. A smoothed line graph may be appropriate when the growth rate is continuous.
 - A) True
 - B) False
- 22. The figure below is an example of what type of graph?

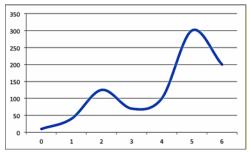


- A) Line graph
- B) Scatterplot
- C) Smoothed line graph
- D) Bar graph
- 23. The figure below is an example of what type of graph?



- A) Line graph
- B) Scatterplot
- C) Smoothed line graph
- D) Bar graph

24. The figure below is an example of what type of graph?



- A) Line graph
- B) Scatterplot
- C) Smoothed line graph
- D) Bar graph
- 25. In cleaning toxic waste sites, typically the amount of waste eliminated decreases over time. That is, the amount of toxic waste remaining as a function of time is decreasing at a decreasing rate. What would a graph of this function look like?
 - A) It would be decreasing, becoming more steep over time
 - B) It would be increasing, becoming more steep over time
 - C) It would be increasing, becoming less steep over time
 - D) It would be decreasing, becoming less steep over time

-		

Answer Key

- 1. C
- 2. A
- 3. D
- 4. B
- 5. B
- 6. C
- 7. A
- 8. B
- 9. C
- 10. B
- 11. B
- 12. C
- 13. B
- 14. B
- 15. 56.5%
- 16. C
- 17. A
- 18. A
- 19. B
- 20. C
- 21. A
- 22. B
- 23. A
- 24. C
- 25. D