Name: _____ Date: _____

1. 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%

2. 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

3. The following table shows the average price per barrel of crude oil in the given year and also in constant 2000 dollars:

| Year	1960	1970	1980	1990	2000
Price per barrel	$2.91	$3.39	$37.42	$23.19	$27.39
2000 dollars	$16.99	$14.81	$75.59	$30.15	$27.39

Excluding 1980, in what year was crude oil most expensive (in real terms)?
A) 1960
B) 1970
C) 1990
D) 2000

4. A company's number of sales each year is half of what it was the year before. Suppose we wanted to look at the number of sales as a function of time. 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

5. The population in a certain city has been increasing and it is increasing at a decreasing rate. Which graph best represents this?
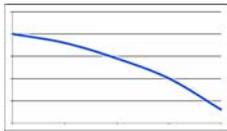   A)
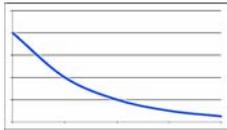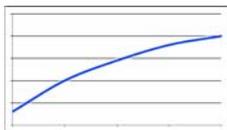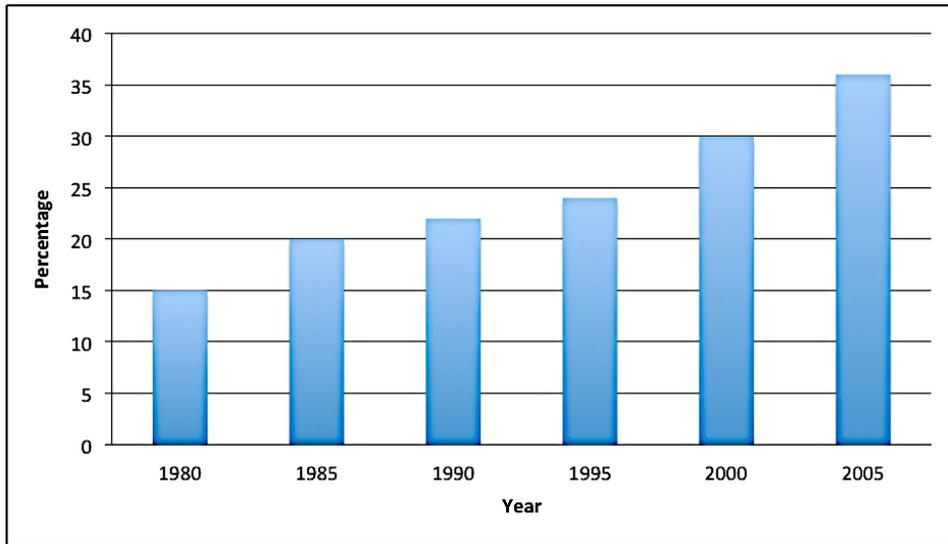

   B)
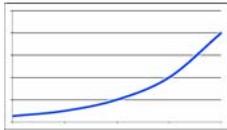
   C)

   D)

6. The bar graph below shows the percentage of college freshman at ABC College needing to take a remedial math class as of the fall of the given year:

Percentage	40 35 30 25 20 15 10 5 0
	1980 1985 1990 1995 2000 2005
	Year

Find the average yearly growth rate in the percentage from 1995 to 2000.
A)   6.0% per year
B)   1.6% per year
C)   1.2% per year
D)   1.5% per year

7. It is not important to know whether graphs involving currency are adjusted for inflation.
A)   True
B)   False

8. Percentage change can provide information that may not be readily apparent from the raw data.
A)   True
B)   False

9. A population of bears is introduced into a game preserve. Over the first five years, the population shows a negative growth rate. The growth rate is positive over the following five years. Sketch a possible graph of the bear population as a function of time.

10. When in doubt, where should we go to determine the accuracy of a pictorial representation?
    A) Another pictorial representation
    B) A related article
    C) The original data source
    D) A dictionary

11. 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

Use interpolation to estimate the number of cases reported on April 2.
    A) 2218
    B) 1887
    C) 1940
    D) 2095

12. The bar graph below shows the annual attendance (in millions) at a state fair:
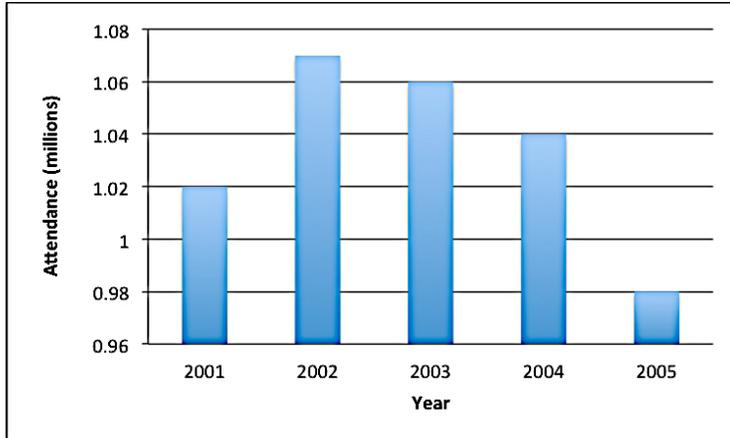
The chart seems to show a sharp increase in attendance from 2001 to 2002. Calculate the percent change from 2001 to 2002.
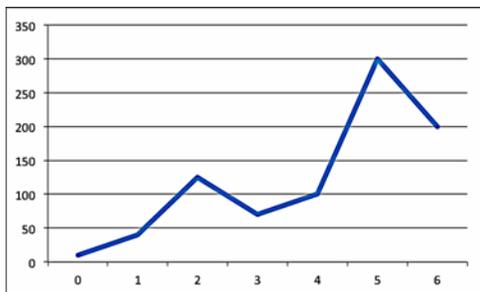   A) 25%
    B) 15%
    C) 10%
    D) 5%

13. 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

14. When we adjust a graph for inflation, we report all currency amounts in:
A) past dollars
B) present dollars
C) future dollars
D) constant dollars

15. As we age, we grow in height. At a certain age, we reach our full height. Suppose we wanted to look at height as a function of age from birth to 20 years of age. 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

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

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

17. 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%

18. The inflation rate from 2001 to 2007 was 17%. If a postage stamp cost $0.34 in 2001, what would its cost be in constant 2007 dollars?
A) $0.36
B) $0.38
C) $0.40
D) $0.44

19. Scatterplots can be used to represent large numbers of data points that cannot be reasonably displayed using a bar graph.
A) True
B) False

20. Any graph can be misleading if _____ data are plotted.
A) sufficient
B) insufficient
C) too many
D) similar