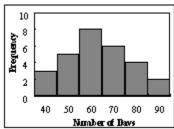
1. Find the class with the least number of data values.

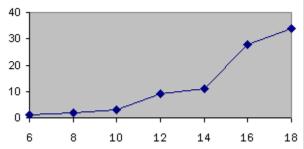


- A) 70
- B) 90
- C) 60
- D) 40
- 2. Thirty students recorded the colors of their eyes, choosing from the colors brown, blue, green, hazel, and black. This data can be appropriately summarized in a
 - A) Open-ended distribution
- C) Grouped frequency distribution
- B) Categorical frequency distribution
- D) Upper boundary
- 3. A Pareto chart does not have which of the following properties?
 - A) It is a bar chart
 - B) The frequencies are arranged from highest to lowest
 - C) The frequencies are arranged from lowest to highest
 - D) It is used to represent categorical data
- 4. A time series graph is useful for which of the following purposes?
 - A) Representing relative frequencies of categories in a specific year
 - B) Representing the cumulative frequencies of the data in a specific year
 - C) Representing the frequencies of the data, sorted from largest to smallest
 - D) Representing the frequencies of a data category over a period of several years
- 5. The graphs that have their distributions as proportions instead of raw data as frequencies are called
 - A) relative frequency graphs.
- C) histograms.

B) ogive graphs.

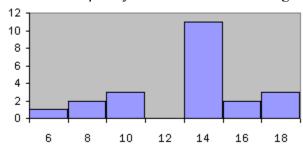
D) frequency polygons.

6. The total frequency of the data whose ogive shown below



is approximately

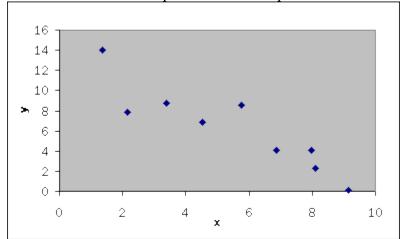
- A) 12 B) 18 C) 34 D) 90
- 7. What are the boundaries of the class 1.87–3.43?
 - A) 1.9–3.4
- B) 1.87–3.43
- C) 1.879–3.439
- D) 1.865-3.435
- 8. The total frequency of the data whose histogram is shown below



is approximately

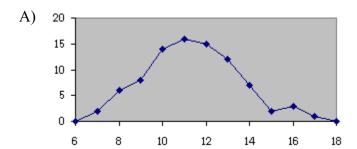
- A) 11 **B) 20** C) 50 D) 100
- 9. An automobile dealer wants to construct a pie graph to represent types of cars sold in July. He sold 72 cars; 16 of which were convertibles. The convertibles will represent how many degrees in the circle?
 - A) 60°
- B) 80°
- C) 100°
- D) 50°

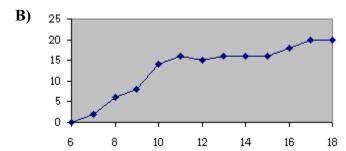
- 10. A scatter plot would be useful for
 - A) Showing the relative number of sales of four different brands of blank DVDs
 - B) Showing the trend of sales, over time, of five different brands of blank DVDs
 - C) Showing the relationship between the sales of blank CDs and blank DVDs
 - D) Showing the top selling brands of blank DVDs
- 11. What kind of relationship does the scatter plot show between x and y?

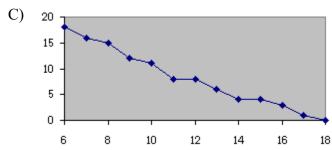


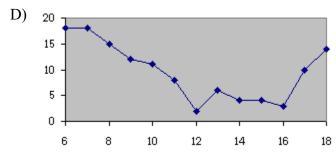
- A) A positive linear relationship
- B) A negative linear relationship
- C) No linear relationship
- D) This is not a scatter plot
- 12. Exaggerating a one-dimensional increase by showing it in two dimensions is an example of a(n)
 - A) pictograph. B) pie graph. C) ogive. D) misleading graph.
- 13. A weatherman records the amount of rain that has fallen in Portland, Oregon during each day. What type of graph should he use?
 - A) pie graph B) pictograph C) time series graph D) ogive

14. Which of the following could be a cumulative frequency graph?



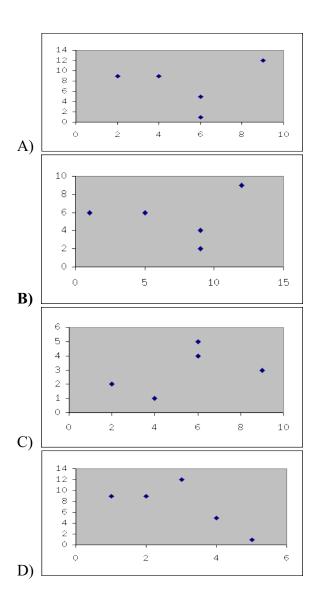




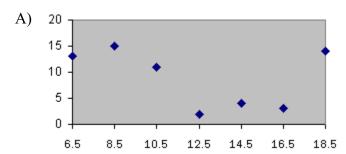


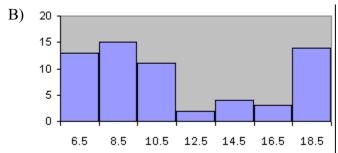
15. Which of the following graphs is the scatter plot for the data given below?

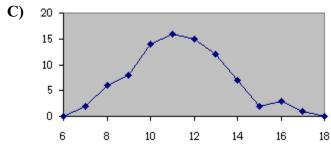
x values	9	9	12	5	1
y values	4	2	9	6	6

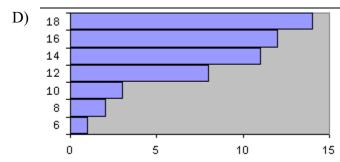


16. Which of the following is a frequency polygon?

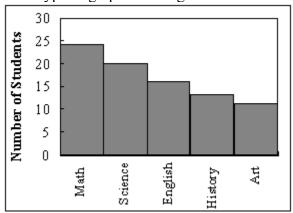








17. What type of graph is the figure below?



- A) Pareto chart
- B) pictograph
- C) ogive
- D) pie graph

18. In a pie graph, if pepperoni pizza were 24/72 of the distribution, how many degrees would be needed to represent pepperoni?

- A) 90°
- B) 120°
- C) 60°
- D) 150°

19. Karen is constructing a pie graph to represent the number of hours her classmates do homework each day. She found that 8/24 did homework for three hours each day. In her pie graph, this would represent how many degrees?

- A) 135°
- B) 45°
- C) 120°
- D) 240°

20. What is the midpoint of the class 1-17?

- A) 1 **B) 9** C) 1 and 17 D) 9 and 16

	3, 5, 8, 10, 14
	A) 9 B) 5 C) 7 D) 8
3.	Find the z score for each student and indicate which one is higher. Art Major $X = 46$ $\overline{X} = 50$ $s = 5$ Theater Major $X = 70$ $\overline{X} = 75$ $s = 7$
	 A) Both students have the same score. B) Neither student received a positive score; therefore, the higher score cannot be determined. C) The theater major has a higher score than the art major. D) The art major has a higher score than the theater major.
4.	Which of the following is the correct mean for the given data? 7, 8, 13, 9, 10, 11
	A) 9.7 B) 9.67 C) 9 D) 10
5.	The minimum of the set of numbers $\{-3, 17, -5, 11, 5\}$ is
	A) 20 B) 10 C) -3 D) 17 E) none of the above
6.	The maximum of the set of numbers {8, 18, -5, 11, 5} is
	A) 15 B) -5 C) 18 D) 10.5

1. If the mean of a set of data is 23.00, and 12.60 has a z-score of -1.30, then the standard

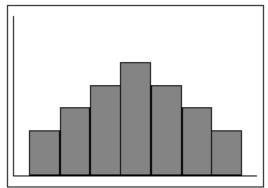
deviation must be:

A) 4.00 B) 32.00 C) 64.00 **D) 8.00**

2. What is the median of the following numbers?

- 7. If the mean of a set of data is 23.00, and 30.50 has a z-score of 0.75, then the standard deviation must be:
 A) 100.00 B) 5.00 C) 50.00 D) 10.00
- 8. If the five number summary for a set of data is 0, 3, 6, 7, and 16, then the mean of this set of data is
 - A) 6 B) there is insufficient information to calculate the mean C) 8 D) 5
- 9. Find Q_1 , Q_2 , and Q_3 for the following data set. 7, 21, 32, 38.
 - A) $Q_1 = 5$, $Q_2 = 20$, and $Q_3 = 39$ B) $Q_1 = 14$, $Q_2 = 26.5$, and $Q_3 = 35$ C) $Q_1 = 14$, $Q_2 = 25$, and $Q_3 = 25$ D) $Q_1 = 10$, $Q_2 = 25$, and $Q_3 = 36$
- 10. Find the median for the following data. 6, 7, 4, 5, 3, 7, 4
 - **A)** 5 B) 3 C) 7 D) 4
- 11. All the values in a dataset are between 9 and 11, except for one value of 84. That value 84 is likely to be
 - A) the boxplot B) the mean C) the range D) an outlier
- 12. A student received the following grades: An A in Statistics (4 credits), a F in Physics II (5 credits), a B in Sociology (3 credits), a B in a Literature seminar (2 credits), and a D in Tennis (1 credit). Assuming A = 4 grade points, B = 3 grade points, C = 2 grade points, D = 1 grade point, and F = 0 grade points, the student's grade point average is:
 - A) 2.47 B) 2.24 C) 2.52 D) 2.40 E) 2.13
- 13. Given that the variance for a data set is 1.20, what would be the standard deviation?
 - A) 0.60 B) 1.20 **C) 1.10** D) 1.44

14. In a unimodal, symmetrical distribution as shown in the figure below.



- A) The median and the mode are the same, but the mean can be different.
- B) The mean is the same as the median, but the mode can be different.
- C) The mean, the median, and the mode are different.
- D) The mean, the median, and the mode are the same.
- 15. If a set of 25 numbers has standard deviation 9, then it's variance is
 - A) 45.00 B) 16.20 C) 81.00 D) 1.80

- 16. Which of the following is true?
- A) $D_{50} = P_5 = Q_{25}$ B) $D_5 = P_{50} = Q_2$ C) $D_{50} = P_5 = Q_2$ D) $D_5 = P_5 = Q_5$
- 17. Determine the range for this data: 4, 7, 3, 16, 5, 22, and 8.
 - A) 14
- **B)** 19 C) 3 D) 4
- 18. What is the range of the numbers -6, 2, -8, 3, 11
 - **A) 19** B) -6 C) 2 D) 3

- 19. The range of the set of numbers $\{8, 17, 3, 10, 5\}$ is
 - A) 10 **B) 14** C) 17 D) 3
- 20. What is the term for a characteristic or measure obtained by using all the data values for a specific population?
 - A) mode
- B) statistic
- C) parameter
- D) variable