Full Download: http://alibabadownload.com/product/statistics-a-tool-for-social-research-8th-edition-healey-test-bank/

Chapter 2--Basic Descriptive Statistics: Percentages, Ratios and Rates, Tables, Charts and Graphs

Student:
 The purpose of univariate descriptive statistics is to A. summarize relationships between many variables. B. display the essential meaning of variables measured at the interval-ratio level. C. combine nominal and discrete variables. D. summarize a single variable.
 2. To calculate a proportion, the number of cases in any category (f) is divided by A. the total number of categories (k). B. the number of cases in all categories (N). C. the cases in that category (f). D. the number of cases in adjacent categories (k-1).
3. Which of the following is an impossible value for a percentage? A. 0.0% B. 47.458923% C. 110.00% D. 0.05%
 4. Forty of every two hundred students attend all of their classes. What percentage of the student body is this? A. 5% B. 50% C. 2% D. 20%
5. Twenty-three of the 50 states rejected a proposed constitutional amendment to make the house fly the National Insect. What percentage is this? A. 23% B. 25% C. 46% D. 54%

6. To be converted to a percentage, the proportion must be multiplied byA. 10.B. 100.C. 1000.
D. any of the above
 7. The sum of the proportions for all categories of a variable will be A. 100.00. B. 10.00. C. 1.00. D. 0.10.
8. When working with a very small number of cases, it is usually preferable to reportA. percentages.B. proportions.C. fractions.D. actual frequencies.
 9. The ratio of men to women in a karate class is 3.3:1. If there are 100 women, how many men are there? A. 33 B. 66 C. 133 D. 330
10. A class has 20 men and 10 women. The ratio of women to men is A. 2 to 1. B. 1 to 2. C. 20%. D2.
11. To find the ratio of smokers to non-smokers, you wouldA. divide the number of non-smokers by the number of smokers.B. add them together and divide by the number of smokers.C. divide the number of smokers by the number of non-smokers.D. multiply the number of smokers by the total number of people.

TABLE 2.1 POLITICAL PARTY MEMBERSHIP IN TWO COMMUNITIES	-		
PARTY:	COMMUNITY A	COMMUNITY B	
Republican	103	17	
Democrat	135	21	
Independent	17	15	
Socialist	9	<u>11</u>	
TOTALS:	264	64	

In Table 2.1, what percentage of Community A are Republicans?

A. (103/264) 100 = 39.02

B. (103/17) 100 = 605.88

C. (264/328) 100 = 80.49

D. $(103/135) \cdot 100 = 76.30$

13. **Table 2.1**

TABLE 2.1 POLITICAL PARTY	<u>Y</u>		
MEMBERSHIP IN TWO			
<u>COMMUNITIES</u>			
PARTY:	COMMUNITY A	COMMUNITY B	
Republican	103	17	
Democrat	135	21	
Independent	17	15	
Socialist	9	<u>11</u>	
TOTALS:	264	64	

In Table 2.1, what is the ratio of Socialists to Democrats in Community B?

A. 11:21

B. 11:64

C. 64:11

D. 9:11

14. **Table 2.1**

TABLE 2.1 POLITICAL PARTY MEMBERSHIP IN TWO COMMUNITIES			
PARTY:	COMMUNITY A	COMMUNITY B	
Republican	103	17	
Democrat	135	21	
Independent	17	15	
Socialist	9	<u>11</u>	
TOTALS:	264	64	

In Table 2.1, which is the correct fraction for determining the proportion of Independents in community B?

A. 15/17

B. 15/264

C. 64/15

D. 15/64

15. **Table 2.1**

TABLE 2.1 POLITICAL PARTY MEMBERSHIP IN TWO COMMUNITIES			
PARTY:	COMMUNITY A	COMMUNITY B	
Republican	103	17	
Democrat	135	21	
Independent	17	15	
Socialist	9	<u>11</u>	
TOTALS:	264	64	

In Table 2.1, which community has the higher proportion of Independents?

A. Community A

B. Community B

C. Neither

D. This proportion can't be determined from the information given.

16. **Table 2.1**

TABLE 2.1 POLITICAL PARTY MEMBERSHIP IN TWO	<u>-</u>		
<u>COMMUNITIES</u>			
PARTY:	COMMUNITY A	COMMUNITY B	
Republican	103	17	
Democrat	135	21	
Independent	17	15	
Socialist	9	<u>11</u>	
TOTALS:	264	64	

In Table 2.1, what percentage of Democrats lives in community B?

A. (21/64) 100 = 32.8

B. (21/328) 100 = 6.4

C. (21/156) '100 = 13.5

D. (64/264) 100 = 24.2

TABLE 2.1 POLITICAL PARTY	.		
MEMBERSHIP IN TWO COMMUNITIES			
PARTY:	COMMUNITY A	COMMUNITY B	
Republican	103	17	
Democrat	135	21	
Independent	17	15	
Socialist	9	<u>11</u>	
TOTALS:	264	64	

In Table 2.1, what is the ratio of Independents to Socialists in Community A?

A. 15:11

B. 17:9

C. 9:17

D. 17:264

18. The crude birth rate of a city that has 250 births in a year and a population of 7500 would be found by using which of the following?

A. crude birth rate = (250/7500) ´ 1000

B. crude birth rate = 7500/250

C. crude birth rate = (1000/7500) ´ 250

D. crude birth rate = (250/1000) $^{\prime}7500$

19. The homicide rate for a city is reported as 23.89. This means that

A. for every homicide, there were 23.89 victims.

B. for every 100,000 people in the population there were 23.89 homicides.

C. the homicide rate is rising.

D. there was an average of 23.89 homicides each month.

20. A city of 1567 people had 34 auto thefts last year. The auto theft rate for this city

A. cannot be determined from the information given

B. is falling

C. is (34/1567) ´ 100,000

D. is (100,000 ′ 1567)/34

- 21. City A (population = 1567 people) had 34 auto thefts last year. City B (population = 34,567) had 40 auto thefts in the same time period and City C (population = 156,980) had 70 auto thefts. Which city had the highest RATE of auto theft?
- A. City A
- B. City B
- C. City C
- D. More information is needed to answer this question.
- 22. Proportions and percentages, ratios and rates are all ways of expressing
- A. concise distributions of a variable
- B. data without leaving out any details
- C. relative frequencies
- D. raw frequencies
- 23. A nation had a birth rate of 20 in 1990. The rate fell to 13 in 2000. What was the percentage change?

$$\left(\frac{20 - 13}{20}\right) \times 100 = 35\%$$

- $\left(\frac{20 13}{13}\right) \times 100 = 54\%$

- $\left(\frac{13-20}{20}\right) \times 100 = -35\%$ $\left(\frac{13-20}{13}\right) \times 100 = -54\%$
- 24. A police department reports that the number of reported rapes in their jurisdiction increased by 100% over the past decade. This means that the number of reported rapes today is
- A. double the number 10 years ago.
- B. actually about the same as 10 years ago.
- C. equal to the number 10 years ago plus 50%.
- D. triple the number 10 years ago.
- 25. A small town of 1,709 residents had one homicide in the past year. The homicide rate for this town
- A. cannot be determined from the information given.
- B. is (1/1709) ´100,000.
- C. is rising.
- D. is (1709:1) ´ 1,000.

C. interval-ratio
D. all of the above
27. The class intervals below represent ages of respondents. Which set of intervals is both exhaustive and
mutually exclusive?
A. 18-19
19-20
20-21
B. 18-19
20-21
22-23
C. 18-20
22-24
26-28
D. 18-19
21-22
24-25
28. The midpoints of intervals for frequency distributions constructed with interval-ratio variables are found by
A. adding the upper and lower class limits for each interval and then dividing by 2.
B. multiplying the upper and lower class limits for each interval.

26. Frequency distributions may be compiled for variables measured at which level?

D. None of the above. Class intervals for interval-ratio variables do not have midpoints.

A. nominal B. ordinal

C. dividing the range by 10.

23-30 31-38 39-46
what are the real limits? A. 22-31 31-38 38-45 B. 23-29 29-38 38-46 C. 23.0-29.9 30.0-37.9 38.0-46.9 D. 22.5-30.5 30.5-38.5 38.5-46.5
30. Cumulative frequencies and cumulative percentages allow a researcher toA. be sure the column totals are correct.B. tell at a glance how many cases fall above or below a given category.C. show the accuracy of his or her findings.D. all of the above
31. When constructing a frequency distribution, the number of class intervals, in general, should be A. more than 20. B. about 10. C. only 2. D. the same as the number of cases.
32. If 60 cases range in score from 4 to 84 and you want 10 intervals in a frequency distribution, approximately what will be the width of each interval? A. 4 B. 8 C. 12 D. 60

29. For the following stated limits:

- 33. When constructing frequency distributions for variables measured at the interval-ratio level, approximate interval size (or interval width) can be found by
- A. dividing sample size (N) by 10.
- B. multiplying the number of categories by the lowest score.
- C. dividing the range by the sample size (N).
- D. dividing the range (R) by the number of categories (k).

TABLE 2.2 AGES OF RESPONDENTS		
Class Intervals	Frequency	Percentages
18-23	5	
24-29	21	
30-40	10	
TOTAL	36	

A possible problem with Table 2.2 is that

- A. class intervals overlap.
- B. class intervals are too large.
- C. class intervals are unequal in size.
- D. class intervals are exhaustive.

35. **Table 2.2**

TABLE 2.2 AGES OF RESPONDENTS		
Class Intervals	Frequency	Percentages
18-23	5	
24-29	21	
30-40	10	
TOTAL	36	

In Table 2.2, what percentage of cases is in the 18-23 age group?

A. (5/36) 100 = 13.51%

B. (18/23) 100 = 78.26%

C. (36/5) 100 = 7.4%

D. (5/21) 100 = 23.81%

TABLE 2.2 AGES OF RESPONDENTS		
Class Intervals	Frequency	Percentages
18-23	5	
24-29	21	
30-40	10	
TOTAL	36	

In Table 2.2, what is the ratio of 30-40 year olds to 18-23 year olds?

A. .24

B. 4.20

C. 2.00

D. 1.00

37. **Table 2.2**

TABLE 2.2 AGES OF RESPONDENTS		
Class Intervals	Frequency	Percentages
18-23	5	
24-29	21	
30-40	10	
TOTAL	36	

In Table 2.2, what proportion of cases are 18-23?

A. 0.05

B. 0.36

C. 0.78

D. 0.13

38. **Table 2.2**

TABLE 2.2 AGES OF		
RESPONDENTS		
Class Intervals	Frequency	Percentages
18-23	5	
24-29	21	
30-40	<u>10</u>	
TOTAL	36	

If we added a cumulative percentage column to Table 2.2 and began our calculations with the 18-23 interval, the entry in the 30-40 interval would be A. 10%. B. 33.3%. C. 37%. D. 100%.
39. A frequency distribution should reflect a balance ofA. detail and conciseness.B. time and money.C. questions and answers.D. elegance and symmetry.
40. As a very general rule, frequency distributions should have categories. A. less than 5 B. more than 20 C. no more than 5 D. about 10
41. Open-ended intervalsA. are always preferable to unequal intervals.B. should never be used in actual research.C. can be useful when there are a few very high or very low scores in a distribution.D. should only be used with ordinal-level variables.
 42. A possible problem with open-ended or unequal intervals is that they A. do not permit the computation of midpoints. B. are useful only for nominal-level variables. C. can be used only with variables that have few scores. D. cannot be used for interval-ratio level variables.

43. Pie charts show the frequency distribution of A. one variable.

B. two variables.

C. three or more variables.D. any of the above

A. pie chart. B. histogram. C. frequency polygon. D. bivariate table.
45. Histograms and line charts or frequency polygons are used with data measured at the A. nominal level.B. ordinal level.C. interval-ratio level.D. any level.
46. For a single variable at the interval-ratio level, an appropriate graph would beA. a pie chart.B. a histogram.C. a bivariate table.D. None of the above. Graphs are never used for interval-ratio level variables
 47. A line chart or frequency polygon is based on A. the upper limits of each interval. B. the lower limits of each interval. C. the midpoint of each interval. D. any limit which the researcher selects.
 48. A researcher wants to visually display the U.S. divorce rate (a continuous, interval-ratio level variable) for the last 50 years. An appropriate format would be A. a line chart or histogram. B. only a histogram would work in this situation. C. a pie chart. D. None of the above. Data in the form of rate should never be displayed in a chart or graph.
 49. According to the study presented in the text, which of the following was the most common form of monitoring employees? A. monitoring Internet connections B. monitoring of computer time C. video surveillance for security purposes

D. tapping of employee home phones

44. For a single variable measured at the nominal level, an appropriate graph would be a

- 50. The study mentioned in the text shows that monitoring and surveillance of employees A. increased gradually until 1995 and then sharply decreased.
- B. increased since 1997.
- C. has been surprisingly constant since the late 1990s.
- D. is virtually nonexistent in the U.S.
- 51. You are the dean of students at a college and the president has asked for some information about how the student body has changed over the years. You have collected the following information regarding the number of students in various categories for two different graduating classes:

CHARACTERISTICS OF TWO GRADUATING		
CLASSES		
	1987	2007
Total in class	345	687
Females	178	301
Married	48	117
Humanities Majors	115	258
Going to Graduate School	78	159
Attended Commencement	99	458
Finished in 4 years	269	325
Received financial aid	159	369

What will you say to the president when she asks:

What changes seem especially important? Why?

a.	what percentage of the graduating class was remaie in 1987? 2007?
b.	What percentage of the glass was going to graduate school in 2007?
	Has this percentage gone up or down since 1987 and by how much? (Hint: Compute the percentage change to measure the amount of
	change between the two times.)
c.	What proportion of the graduating class attended the commencement ceremony in 2007?
	Has this proportion gone up or down since 1987, and by how much?
d.	What proportion of the class majored in the humanities in 1987? 2007?
e.	What percent of students received financial aid in 1987? 2007?
f.	Relatively speaking, how many student finished in just four years in 1987? 2007?
	How has this percentage changed between the two years?
g.	What proportion of students were married in 1987? 2007?
h.	Write a paragraph describing the changes in the graduating classes of 1981 and 2001.

52. Below are the scores of 25 students on a midterm test. Organize this information into a frequency
distribution using a ten point grading scale for class intervals. Include columns for percentages and cumulative
percentages. Write a brief description of the distribution.

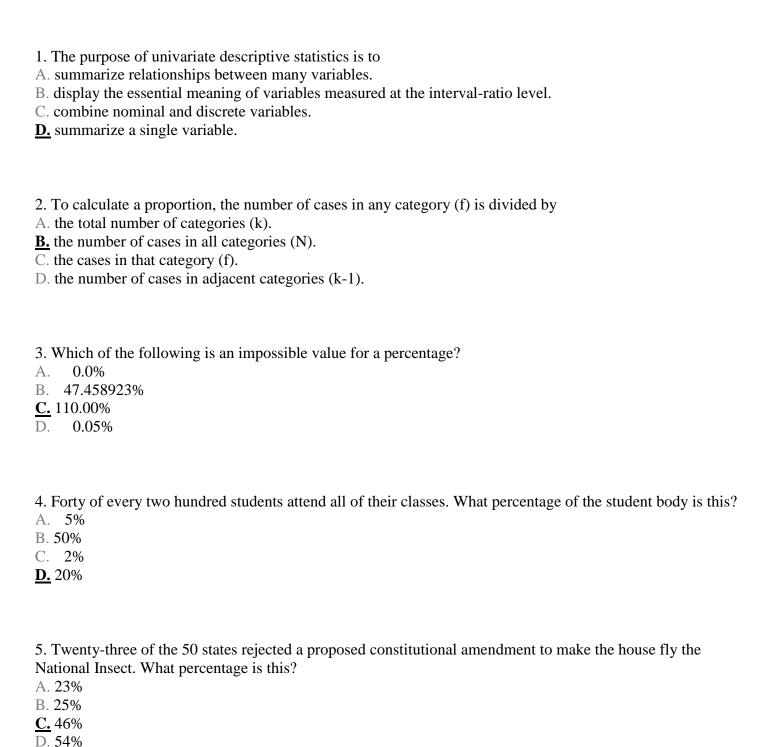
35	45	65	75	87
80	69	71	53	90
99	95	70	82	73
93	67	61	57	74
72	77	71	81	83

TEST GRADES			
	Cumulative Percentage		
Class Intervals	Frequency	Percentage	
59 or less			
60 – 69			
70 – 79			
80 - 89			
90 – 100			
TOTALS			

53. The frequency distribution below displays the distribution of age for a sample drawn from a community. Finish the table by completing the columns for percentages, and cumulative percentages.

AGE			
	Cumulative Percentage		
Class Intervals	Frequency	Percentage	
10 – 19	9		
20 - 29	17		
30 - 39	45		
40 – 49	56		
50 – 60	23		
60 – 69	10		
70 – 79	8		
TOTALS			

Chapter 2--Basic Descriptive Statistics: Percentages, Ratios and Rates, Tables, Charts and Graphs Key



A. 10. B. 100. C. 1000. D. any of the above
7. The sum of the proportions for all categories of a variable will be A. 100.00. B. 10.00. C. 1.00. D. 0.10.
 8. When working with a very small number of cases, it is usually preferable to report A. percentages. B. proportions. C. fractions. D. actual frequencies.
9. The ratio of men to women in a karate class is 3.3:1. If there are 100 women, how many men are there? A. 33 B. 66 C. 133 D. 330
10. A class has 20 men and 10 women. The ratio of women to men is A. 2 to 1. B. 1 to 2. C. 20%. D2.
11. To find the ratio of smokers to non-smokers, you would A. divide the number of non-smokers by the number of smokers. B. add them together and divide by the number of smokers. C. divide the number of smokers by the number of non-smokers. D. multiply the number of smokers by the total number of people.

<u>Y</u>		
COMMUNITY A	COMMUNITY B	
103	17	
135	21	
17	15	
9	<u>11</u>	
264	64	
	COMMUNITY A 103 135 17 9	COMMUNITY A COMMUNITY B 103 17 135 21 17 15 9 11

In Table 2.1, what percentage of Community A are Republicans?

<u>A.</u> (103/264) ´100 = 39.02 B. (103/17) ´100 = 605.88

 \mathbb{C} . (264/328) 100 = 80.49

D. $(103/135) \cdot 100 = 76.30$

13. **Table 2.1**

_		
COMMUNITY A	COMMUNITY B	
103	17	
135	21	
17	15	
9	<u>11</u>	
264	64	
	COMMUNITY A 103 135 17 9	COMMUNITY A COMMUNITY B 103 17 135 21 17 15 9 11

In Table 2.1, what is the ratio of Socialists to Democrats in Community B?

A. 11:21

B. 11:64

C. 64:11

D. 9:11

14. **Table 2.1**

TABLE 2.1 POLITICAL PARTY MEMBERSHIP IN TWO COMMUNITIES			
PARTY:	COMMUNITY A	COMMUNITY B	
Republican	103	17	
Democrat	135	21	
Independent	17	15	
Socialist	9	<u>11</u>	
TOTALS:	264	64	

In Table 2.1, which is the correct fraction for determining the proportion of Independents in community B?

A. 15/17

B. 15/264

C. 64/15

D. 15/64

15. **Table 2.1**

TABLE 2.1 POLITICAL PARTY MEMBERSHIP IN TWO COMMUNITIES			
PARTY:	COMMUNITY A	COMMUNITY B	
Republican	103	17	
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TOTALS:	264	64	•

In Table 2.1, which community has the higher proportion of Independents?

A. Community A

B. Community B

C. Neither

D. This proportion can't be determined from the information given.

16. **Table 2.1**

<u>Y</u>		
COMMUNITY A	COMMUNITY B	
103	17	
135	21	
17	15	
9	11	
264	64	
	COMMUNITY A 103 135 17 9	COMMUNITY A COMMUNITY B 103 17 135 21 17 15 9 11

In Table 2.1, what percentage of Democrats lives in community B?

A. (21/64) 100 = 32.8

B. (21/328) 100 = 6.4

 $\underline{\mathbf{C}}$ (21/156) $\dot{}$ 100 = 13.5

 \overline{D} . $(64/264) \cdot 100 = 24.2$

TABLE 2.1 POLITICAL PARTY	<u>Y</u>		
MEMBERSHIP IN TWO			
<u>COMMUNITIES</u>			
PARTY:	COMMUNITY A	COMMUNITY B	
Republican	103	17	
Democrat	135	21	
Independent	17	15	
Socialist	9	<u>11</u>	
TOTALS:	264	64	

In Table 2.1, what is the ratio of Independents to Socialists in Community A?

A. 15:11

B. 17:9

C. 9:17

D. 17:264

18. The crude birth rate of a city that has 250 births in a year and a population of 7500 would be found by using which of the following?

A. crude birth rate = (250/7500) ´ 1000

 $\overline{\text{B.}}$ crude birth rate = 7500/250

C. crude birth rate = (1000/7500) ´ 250

D. crude birth rate = (250/1000) ^ 7500

- 19. The homicide rate for a city is reported as 23.89. This means that
- A. for every homicide, there were 23.89 victims.
- **B.** for every 100,000 people in the population there were 23.89 homicides.
- C. the homicide rate is rising.
- D. there was an average of 23.89 homicides each month.
- 20. A city of 1567 people had 34 auto thefts last year. The auto theft rate for this city
- A. cannot be determined from the information given
- B. is falling

<u>C.</u> is (34/1567) ´100,000

D. is (100,000 ´ 1567)/34

- 21. City A (population = 1567 people) had 34 auto thefts last year. City B (population = 34,567) had 40 auto thefts in the same time period and City C (population = 156,980) had 70 auto thefts. Which city had the highest RATE of auto theft?
- A. City A
- B. City B
- C. City C
- D. More information is needed to answer this question.
- 22. Proportions and percentages, ratios and rates are all ways of expressing
- A. concise distributions of a variable
- B. data without leaving out any details
- C. relative frequencies
- D. raw frequencies
- 23. A nation had a birth rate of 20 in 1990. The rate fell to 13 in 2000. What was the percentage change?

$$\left(\frac{20-13}{20}\right) \times 100 = 35\%$$

- $\left(\frac{20 13}{13}\right) \times 100 = 54\%$

- $\frac{\mathbf{C.}}{20} \left(\frac{13 20}{20} \right) \times 100 = -35\%$ $\frac{\mathbf{C.}}{13 20} \left(\frac{13 20}{13} \right) \times 100 = -54\%$
- 24. A police department reports that the number of reported rapes in their jurisdiction increased by 100% over the past decade. This means that the number of reported rapes today is
- **A.** double the number 10 years ago.
- B. actually about the same as 10 years ago.
- C. equal to the number 10 years ago plus 50%.
- D. triple the number 10 years ago.
- 25. A small town of 1,709 residents had one homicide in the past year. The homicide rate for this town A. cannot be determined from the information given.
- **B.** is (1/1709) ′ 100,000.
- C. is rising.
- D. is (1709:1) ´1,000.

C. interval-ratio
<u>D.</u> all of the above
27. The class intervals below represent ages of respondents. Which set of intervals is both exhaustive and
mutually exclusive?
A. 18-19
19-20
20-21
B. 18-19
20-21
22-23
C. 18-20
22-24
26-28
D. 18-19
21-22
24-25
28. The midpoints of intervals for frequency distributions constructed with interval-ratio variables are found by A. adding the upper and lower class limits for each interval and then dividing by 2. B. multiplying the upper and lower class limits for each interval.
C. dividing the range by 10.
D. None of the above. Class intervals for interval-ratio variables do not have midpoints.

26. Frequency distributions may be compiled for variables measured at which level?

A. nominal B. ordinal

23-30 31-38 39-46
what are the real limits? A. 22-31 31-38 38-45 B. 23-29 29-38 38-46 C. 23.0-29.9 30.0-37.9 38.0-46.9 D. 22.5-30.5 30.5-38.5 38.5-46.5
30. Cumulative frequencies and cumulative percentages allow a researcher to A. be sure the column totals are correct. B. tell at a glance how many cases fall above or below a given category. C. show the accuracy of his or her findings. D. all of the above
31. When constructing a frequency distribution, the number of class intervals, in general, should be A. more than 20. B. about 10. C. only 2. D. the same as the number of cases.
32. If 60 cases range in score from 4 to 84 and you want 10 intervals in a frequency distribution, approximately what will be the width of each interval? A. 4 B. 8 C. 12 D. 60

29. For the following stated limits:

- 33. When constructing frequency distributions for variables measured at the interval-ratio level, approximate interval size (or interval width) can be found by
- A. dividing sample size (N) by 10.
- B. multiplying the number of categories by the lowest score.
- C. dividing the range by the sample size (N).
- **<u>D.</u>** dividing the range (R) by the number of categories (k).

TABLE 2.2 AGES OF RESPONDENTS		
Class Intervals	Frequency	Percentages
18-23	5	
24-29	21	
30-40	<u>10</u>	
TOTAL	36	

A possible problem with Table 2.2 is that

- A. class intervals overlap.
- B. class intervals are too large.
- C. class intervals are unequal in size.
- D. class intervals are exhaustive.

35. **Table 2.2**

TABLE 2.2 AGES OF RESPONDENTS		
Class Intervals	Frequency	Percentages
18-23	5	
24-29	21	
30-40	<u>10</u>	
TOTAL	36	

In Table 2.2, what percentage of cases is in the 18-23 age group?

 $\underline{\mathbf{A}} \cdot (5/36) \cdot 100 = 13.51\%$

 \overline{B} . (18/23) 100 = 78.26%

C. (36/5) '100 = 7.4%

D. (5/21) 100 = 23.81%

TABLE 2.2 AGES OF RESPONDENTS		
Class Intervals	Frequency	Percentages
18-23	5	
24-29	21	
30-40	<u>10</u>	
TOTAL	36	

In Table 2.2, what is the ratio of 30-40 year olds to 18-23 year olds?

A. .24

B. 4.20

<u>C.</u> 2.00

D. 1.00

37. **Table 2.2**

TABLE 2.2 AGES OF RESPONDENTS			
Class Intervals	Frequency	Percentages	
18-23	5		
24-29	21		
30-40	<u>10</u>		
TOTAL	36		
	<u>J</u>		

In Table 2.2, what proportion of cases are 18-23?

A. 0.05

B. 0.36

C. 0.78

D. 0.13

38. **Table 2.2**

TABLE 2.2 AGES OF		
RESPONDENTS		
Class Intervals	Frequency	Percentages
18-23	5	
24-29	21	
30-40	10	
TOTAL	36	

If we added a cumulative percentage column to Table 2.2 and began our calculations with the 18-23 interval, the entry in the 30-40 interval would be A. 10%. B. 33.3%. C. 37%. D. 100%.
 39. A frequency distribution should reflect a balance of A. detail and conciseness. B. time and money. C. questions and answers. D. elegance and symmetry.
40. As a very general rule, frequency distributions should have categories. A. less than 5 B. more than 20 C. no more than 5 D. about 10
 41. Open-ended intervals A. are always preferable to unequal intervals. B. should never be used in actual research. C. can be useful when there are a few very high or very low scores in a distribution. D. should only be used with ordinal-level variables.
 42. A possible problem with open-ended or unequal intervals is that they A. do not permit the computation of midpoints. B. are useful only for nominal-level variables. C. can be used only with variables that have few scores. D. cannot be used for interval-ratio level variables.
43. Pie charts show the frequency distribution of A. one variable. B. two variables.

C. three or more variables.D. any of the above

 44. For a single variable measured at the nominal level, an appropriate graph would be a A. pie chart. B. histogram. C. frequency polygon. D. bivariate table.
45. Histograms and line charts or frequency polygons are used with data measured at the A. nominal level. B. ordinal level. C. interval-ratio level. D. any level.
 46. For a single variable at the interval-ratio level, an appropriate graph would be A. a pie chart. B. a histogram. C. a bivariate table. D. None of the above. Graphs are never used for interval-ratio level variables
 47. A line chart or frequency polygon is based on A. the upper limits of each interval. B. the lower limits of each interval. C. the midpoint of each interval. D. any limit which the researcher selects.
 48. A researcher wants to visually display the U.S. divorce rate (a continuous, interval-ratio level variable) for the last 50 years. An appropriate format would be <u>A.</u> a line chart or histogram. B. only a histogram would work in this situation. C. a pie chart. D. None of the above. Data in the form of rate should never be displayed in a chart or graph.
49. According to the study presented in the text, which of the following was the most common form of monitoring employees? A. monitoring Internet connections B. monitoring of computer time C. video surveillance for security purposes D. tapping of employee home phones

- 50. The study mentioned in the text shows that monitoring and surveillance of employees A. increased gradually until 1995 and then sharply decreased.
- **B.** increased since 1997.
- C. has been surprisingly constant since the late 1990s.
- D. is virtually nonexistent in the U.S.
- 51. You are the dean of students at a college and the president has asked for some information about how the student body has changed over the years. You have collected the following information regarding the number of students in various categories for two different graduating classes:

CHARACTERISTICS OF TWO GRADUATING		
CLASSES		
	1987	2007
Total in class	345	687
Females	178	301
Married	48	117
Humanities Majors	115	258
Going to Graduate School	78	159
Attended Commencement	99	458
Finished in 4 years	269	325
Received financial aid	159	369

What will you say to the president when she asks:

b.	What percer	ntage of the	e glass wa	as going to gr	aduate school in 2	2007?	_			
	Has this per	centage go	one up or	down since 19	987 and by how m	nuch? (Hint: C	ompute the per	rcentage change to	measure the am	ount o
	change bety	een the tu	in times							

2007?

What proportion of the graduating class attended the commencement ceremony in 2007? Has this proportion gone up or down since 1987, and by how much? ___

What proportion of the class majored in the humanities in 1987? ______2007? _____ d.

What percent of students received financial aid in 1987? _____ 2007? _ Relatively speaking, how many student finished in just four years in 1987?

How has this percentage changed between the two years? __ What proportion of students were married in 1987? ____

What percentage of the graduating class was female in 1987?

Write a paragraph describing the changes in the graduating classes of 1981 and 2001. h.

What changes seem especially important? Why?

	1987	2007	
a.	51.59%	43.81%	
b.	22.61%	23.14%	The percentage going to graduate school has increased by 2.34%
c.	.29	.67	The proportion has increased by 132.30%
d.	.33	.38	
e.	46.09%	53.71%	
f.	77.97%	47.31%	The percentage finishing in 4 years has declined by 39.32%
g.	.14	.17	

52. Below are the scores of 25 students on a midterm test. Organize this information into a frequency
distribution using a ten point grading scale for class intervals. Include columns for percentages and cumulative
percentages. Write a brief description of the distribution.

35	45	65	75	87
80	69	71	53	90
99	95	70	82	73
93	67	61	57	74
72	77	71	81	83

TEST GRADES			
	Cumulative Percentage		
Class Intervals	Frequency	Percentage	
59 or less			
60 – 69			
70 – 79			
80 - 89			
90 - 100			
TOTALS			

TEST GRADES				
	Cumulative			
Class Intervals	Frequency	Percentage	Percentage	
59 or less	4	16	16	
60 – 69	4	16	32	
70 – 79	8	32	64	
80 – 89	5	20	84	
90 – 100	4	16	100	
TOTALS	25	100		

53. The frequency distribution below displays the distribution of age for a sample drawn from a community. Finish the table by completing the columns for percentages, and cumulative percentages.

AGE			
	Cumulative Percentage		
Class Intervals	Frequency	Percentage	
10 – 19	9		
20 – 29	17		
30 – 39	45		
40 – 49	56		
50 – 60	23		
60 – 69	10		
70 – 79	8		
TOTALS			

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AGE				
	Cumulative			
Class Intervals	Frequency	Percentage	Percentage	
10 – 19	9	5.36	5.36	
20 – 29	17	10.12	15.48	
30 – 39	45	26.79	42.27	
40 – 49	56	33.33	75.60	
50 – 60	23	13.69	89.29	
60 – 69	10	5.95	95.24	
70 – 79	8	4.76	100.00	
TOTALS	168	100.00		