

web → Mobusinesss.com
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 Dr-Mohamed BUS102

total 540
 fair → 330
 too long → 180
 rest 30

1

AVX Home Entertainment, Inc., recently began a "no-hassles" return policy. A sample of 540 customers who recently returned items showed 330 thought the policy was fair, 180 thought it took too long to complete the transaction, and the rest had no opinion. On the basis of this information, make an inference about customer reaction to the new policy. (Round your answers to 1 decimal place.)

Customer Reaction	Percent
Fair ✓	61.1%
Too long	33.3%
No opinion	5.6%

$\frac{330}{540} \times 100 = 61.1\%$
 $\frac{180}{540} \times 100 = 33.3\%$
 $\frac{30}{540} \times 100 = 5.6\%$

أغلبية
 majority

The above data suggest that majority of the customers believe the policy is fair

Demo Quiz

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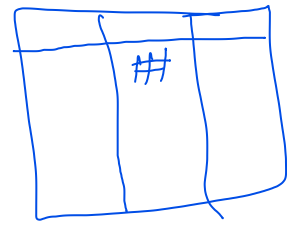
2

Identify whether the table given below is a frequency table or a frequency distribution.

Selling price	Frequency
0 up to 3	5
3 up to 6	12
6 up to 9	23
9 up to 12	8
12 up to 15	2

00:04:24

- Frequency distribution
- Frequency table



BUS102

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3

Classify the following as a population or sample:

a. Two chimpanzees chosen to carry out genetic research.

- Sample
- Population

00:03:55

b. All of the people that attended a movie at the local theater last month.

- Sample
- Population

all Population 3800 → 100 'ais' Sample



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Demo Quiz Help Save & Exit Submit

4

The following frequency distribution reports the number of frequent flier miles, reported in thousands, for employees of Brumley Statistical Consulting Inc. during the most recent quarter.

Frequent Flier Miles (000)	Number of Employees
0 up to 4	4
4 up to 8	12
8 up to 12	24
12 up to 16	7
16 up to 20	2
Total	49

00:03:42

a. How many employees were studied?

Number of employees

0 to 4

$$\text{mid point} = \frac{0+4}{2} = 2$$

b. What is the midpoint of the first class? (Round your answer to 1 decimal place.)

4 → 8 $\frac{4+8}{2} = 6$



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Demo Quiz Help Save & Exit Submit

4

b. What is the midpoint of the first class? (Round your answer to 1 decimal place.)

Midpoint unit

00:03:30

qualitative data Bar Pie non numeric

6 x 12 Polygon

d. A frequency polygon is to be drawn. What are the coordinates of the plot for the second class? (Round your answer to 1 decimal place.)

x = , y =



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BUS102

5

The frequency distribution representing the number of frequent flier miles accumulated by employees at Brumley Statistical Consulting Inc. is given below.

Frequent Flier Miles (000)	Number of Employees
0 up to 4	4
4 up to 8	11
8 up to 12	24
12 up to 16	9
16 up to 20	3
Total	51

How many employees accumulated less than 12,000 miles?

Number of employees

$$\frac{107 + 115}{2} = 111$$

6

The demand for the video games provided by Mid-Tech Video Games Inc. has exploded in the last several years. Hence, the owner needs to hire several new technical people to keep up with the demand. Mid-Tech gives each applicant a special test that Dr. McGraw, the designer of the test, believes is closely related to the ability to create video games. For the general population, the mean on this test is 100. Below are the scores on this test for the applicants.

115	107	102	116	89	119	124	102	117	124
-----	-----	-----	-----	----	-----	-----	-----	-----	-----

[Click here for the Excel Data File](#)

The president is interested in the overall quality of the job applicants based on this test.

a. Compute the mean and the median scores for the 10 applicants. (Round your answers to 1 decimal place.)

Mean	100.9
Median	111.0

$$\text{mean} = \frac{\sum X}{n} = \frac{115 + 107 + 102 + 116 + 89 + 119 + 124 + 102 + 117 + 124}{10} = 100.9$$

$$\frac{n+1}{2} = \frac{10+1}{2} = 5.5 \text{th}$$

5th
6th

BUS102

Demo Quiz i

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7

54	78	60	52	28	48	75	42	68	26
45	75	40	66	58	27	46	75	42	67

[Click here for the Excel Data File](#)

$$\bar{x} = \frac{\sum X}{n} = \frac{536}{10}$$

a. Compute the arithmetic mean. (Round your answer to 2 decimal places.)

00:02:57

Arithmetic mean



b. Indicate whether it is a statistic or a parameter.

This is a



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Demo Quiz i

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8

Determine the median and the first and third quartiles in the following data.

1	2	3	4	5	6	7	8	9		
46	47	49	49	51	53	54	54	55	55	59

mean $\rightarrow \frac{1}{2}$

$$(n+1) \times \frac{50}{100} = (n+1) \times \frac{1}{2}$$

00:02:49

[Click here for the Excel Data File](#)

$$\frac{11+1}{2} = 6 \text{th}$$

Median	\rightarrow 53
First quartile	49
Third quartile	\leftarrow 55

49

1st quartile $= (n+1) \times \frac{25}{100}$
 $= 11 \times \frac{25}{100} = 3 \text{th}$

3rd quartile $= (n+1) \times \frac{75}{100}$
 $= 12 \times \frac{75}{100} = 9 \text{th}$

$\frac{1}{4}$
 $\frac{n+1}{2}$
 median



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$$6.4 - 6.9 - 7.6 - 8.5$$

$$\frac{6.9 + 7.6}{2}$$

BUS102

8.5, 6.4, 7.6, 6.9
4

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9

The unemployment rate in the state of Alaska by month is given in the table below:

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
6.4	7.6	6.9	7.0	7.7	7.1	6.2	6.8	6.2	7.8	6.5	8.5

00:02:23

[Click here for the Excel Data File](#)

a. What is the arithmetic mean of the Alaska unemployment rates? (Round your answer to 2 decimal places.)

Arithmetic mean

$$\frac{n+1}{2} = 6^{th}$$

mode = 0

b. Find the median and the mode for the unemployment rates. (Round your answers to 2 decimal places.)

mode → 6.2

no mode



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Demo Quiz

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9

b. Find the median and the mode for the unemployment rates. (Round your answers to 2 decimal places.)

Median	6.95
Mode	6.20

00:02:13

c-1. Compute the arithmetic mean and median for just the winter (Dec-Mar) months. (Round your answers to 2 decimal places.)

Mean	7.35
Median	7.25

$$\frac{4+1}{2} = \frac{5}{2} = 2.5^{th} \quad 2, 3^{th}$$



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Demo Quiz i

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9

c-1. Compute the arithmetic mean and median for just the winter (Dec–Mar) months. (Round your answers to 2 decimal places.)

00:02:05

Mean	7.35
Median	7.25

7.25

c-2. Is it much different?

- The winter unemployment rates are higher. ✓
- The winter unemployment rates are lower.
- The winter unemployment rates are equal.

Mc
Graw
Hill
Education

< Prev

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Demo Quiz i

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10

The accounting firm of Crawford and Associates has five senior partners. Yesterday the senior partners saw eight, four, eight, four, and two clients, respectively.

a. Compute the mean and median number of clients seen by the partners. (Round your answers to 2 decimal places.)

00:01:56

Mean	5.20
Median	4.00

8, 4, 8, 4, 2

b. The data represents a grouped data.

Mc
Graw
Hill
Education

< Prev

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Next >

8

c. What is the class interval?

Class interval

00:26:33

d. What is the class frequency of the 30 up to 35 class?

Class frequency

e. What is the relative frequency of the 30 up to 35 class? **(Round your answer to 2 decimal places.)**

Relative frequency

9

The Bookstall Inc. is a specialty bookstore concentrating on used books sold via the Internet. Paperbacks are \$1.60 each, and hardcover books are \$4.25. Of the 50 books sold last Tuesday morning, 40 were paperback and the rest were hardcover.

What was the weighted mean price of a book? (Round your answer to 2 decimal places.)

Weighted mean

So Paperbacks 40 \times 1.60 \$
 hard cover \rightarrow 10 \times 4.25 \$

$$\bar{x}_w = \frac{w_1x_1 + w_2x_2 + w_3x_3}{w_1 + w_2 + w_3} \quad \bar{x}_w = \frac{(40 \times 1.60) + (10 \times 4.25)}{50} = 2.13$$

00:26:03

10

Compute the mean of the following population values: 4, 3, 5, 7, 6. **(Round your answer to 1 decimal place.)**

The mean is



00:25:56



2

What is the median of 26, 30, 24, 32, 32, 31, 27, and 29?

Multiple Choice

 30 32 29 29.5

5

00:18:52

The number of families who used the Minneapolis YWCA day care service was recorded over a 30-day period. The follows:

63	58	69	38	66	26	39	42	53	49
33	49	60	40	6	23	2	21	43	19
20	25	7	49	49	22	17	4	35	10

[Click here for the Excel Data File](#)

Construct a cumulative frequency distribution of this data.


Class			Cumulative Frequency
0	up to	15	5
15	up to	30	8
30	up to	45	4
45	up to	60	6
60	up to	75	4

$$k = \frac{2 \sqrt{30}}{2} = 3$$

$$h = \frac{69 - 2}{3} = 22.33 \approx 23$$

8

The performance of personal and business investments is measured as a percentage called "return on investment." What type of variable is "return on investment"?

 00:21:41

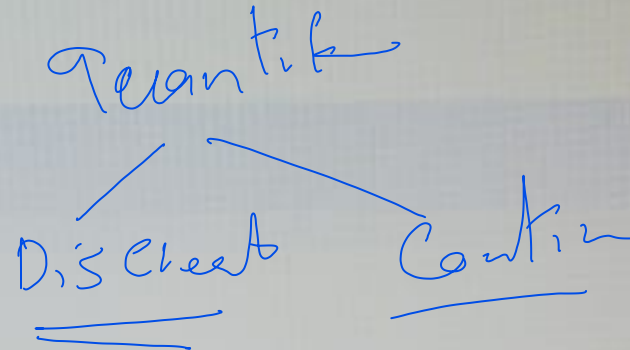
Multiple Choice

Qualitative

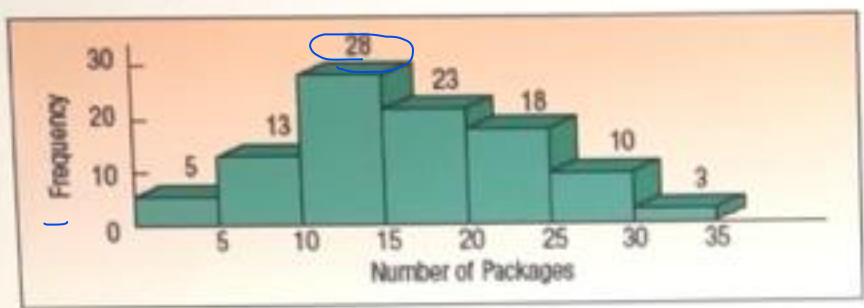
Continuous

Attribute

Discrete



Molly's Candle Shop has several retail stores in the coastal areas of North and South Carolina. Many of Molly's customers ask her to ship their purchases. The following chart shows the number of packages shipped per day for the last 100 days.

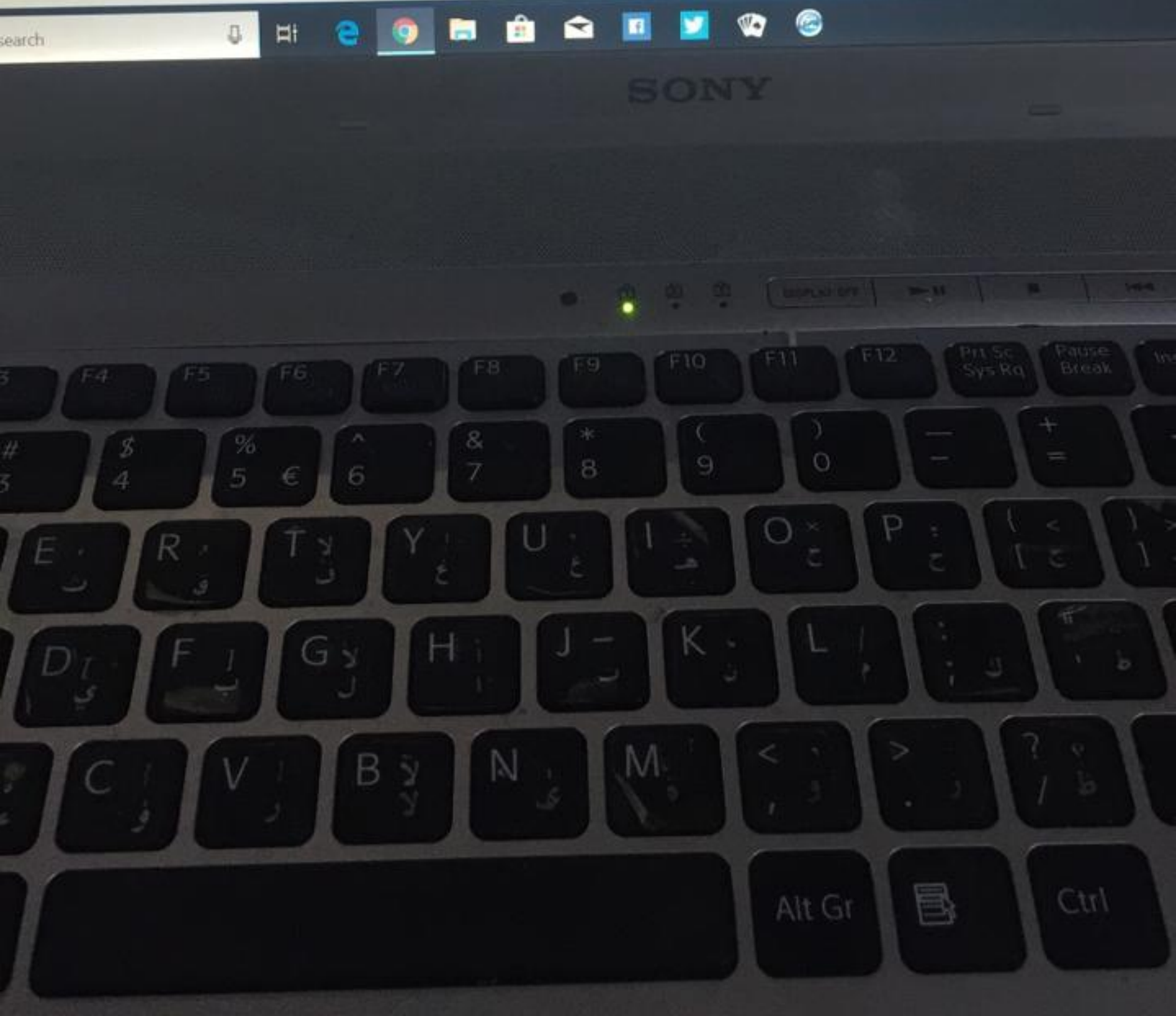


a. What is this chart called?

- Bar chart
- Histogram
- Frequency polygon

b. What is the total number of frequencies?

Frequencies



Saved

1

The number of families who used the Minneapolis YWCA day care service was recorded over a 30-day period. The results are as follows:

47	48	64	63	10	21	69	32	41	44
56	48	39	64	36	44	57	24	18	18
47	59	9	17	57	47	36	4	50	19

[Click here for the Excel Data File](#)

Construct a cumulative frequency distribution of this data.

Class			Cumulative Frequency
0	up to	15	
	up to		
	up to		
	up to		
	up to		




Saved

1

The 75th percentile is referred to as the _____

75% $\frac{75}{100}$

Multiple Choice

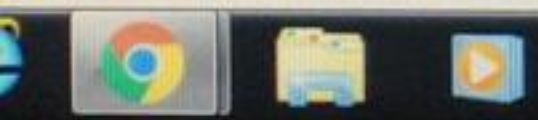
 00:29:27

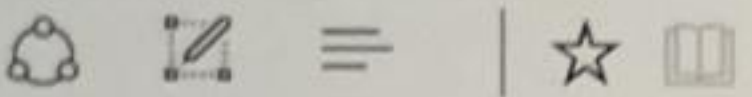
third quartile ✓

second quartile

first quartile

fourth quartile





KSA Quiz I - Evening Session **i**

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2

Compute the mean of the following population values: 2, 4, 5, 7, 6. **(Round your answer to 1 decimal place.)**


The mean is

00:27:20

10

The Bookstall Inc. is a specialty bookstore concentrating on used books sold via the Internet. Paperbacks are \$1.15 each, and hardcover books are \$3.70. Of the 100 books sold last Tuesday morning, 95 were paperback and the rest were hardcover.

What was the weighted mean price of a book? **(Round your answer to 2 decimal places.)**

 00:20:46

Weighted mean


$$\bar{x}_w = \frac{\sum xw}{\sum w}$$

3 A bank asks customers to evaluate its drive-through service as good, average, or poor. Which level of measurement is this classification?

Multiple Choice

Interval

Ordinal

Ratio 

Nominal

6

For the following questions, would you collect information using a sample or a population?

a. A survey to rank the famous television shows in the United States.

- Population
 Sample

b. A research project to find how many heart attack patients are admitted on January 1 to a famous hospital.

- Population
 Sample

c. A study to find the quality of matchsticks in a bundle of 100 matchboxes.

- Sample
 Population

d. An evaluation of the creativity of the director of three films.

- Sample
 Population



4

A large oil company is studying the number of gallons of gasoline purchased per customer at self-service pumps. The mean number of gallons with a standard deviation of 3.0 gallons. The median is 10.75 gallons. What is Pearson's coefficient of skewness in this instance?

$\bar{x} \rightarrow \text{mean}$

$s \leftarrow$

$$SK = \frac{M - \bar{x}}{s}$$

Multiple Choice

+0.75

+1.00

-1.00

-0.75

00:26:07

2

Compute the mean of the following population values: 7, 5, 7, 7, 6. (Round your answer to 1 decimal place.)

The mean is

🕒 00:28:40



4

A large oil company is studying the number of gallons of gasoline purchased per customer at self-service pumps. The mean number of gallons is 10.0, with a standard deviation of 3.0 gallons. The median is 10.75 gallons. What is Pearson's coefficient of skewness in this instance?

00:27:49

Multiple Choice

 -0.75 -0.75 -1.00 -1.00

$$Sk = \frac{3(\bar{x} - \text{median})}{s}$$
$$Sk = \frac{3(10 - 10.75)}{3}$$

3

The performance of personal and business investments is measured as a percentage called "return on investment." What type of variable is "return on investment"?

Multiple Choice

00:28:13

- Discrete
- Continuous
- Attribute
- Qualitative

8

For the following questions, would you collect information using a sample or a population?

a. To find how many books are published in one week by a famous publishing company.



Sample



Population

b. To test a new drug produced by a biotech company.



Sample



Population

c. To find the number of men and women working in an IT company with 600 people.



Population



Sample

d. To estimate the average salary of doctors in California.



Population



Sample




00:15:53

My C

▼ BUS1



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You have **ONE MINUTE** remaining to complete this quiz.

8 For the following questions, would

a. To find how many books are published in one week by a famous

- Sample
- Population

b. To test a new drug produced by a biotech company.

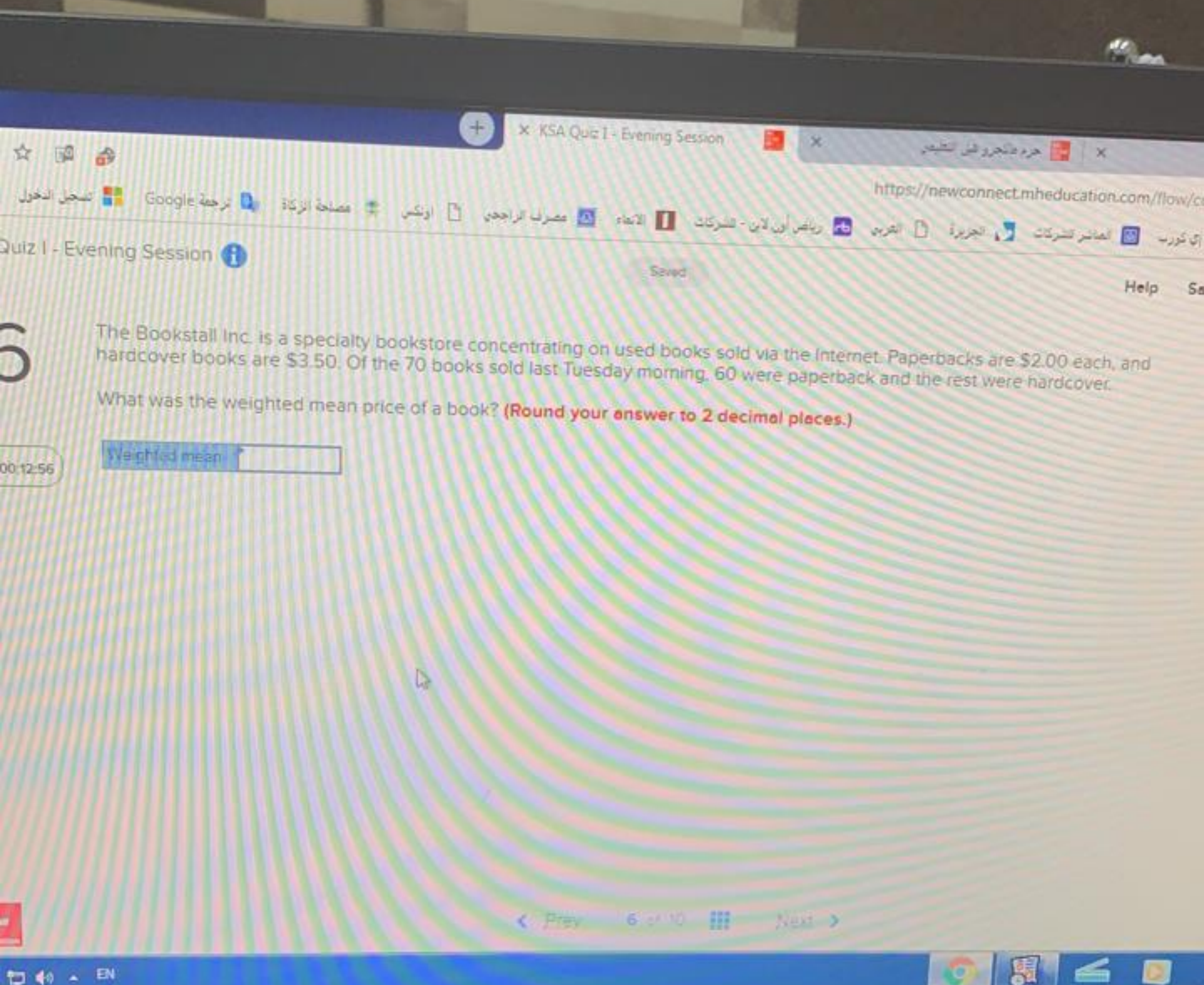
- Sample
- Population

c. To find the number of men and women working in an IT company

- Population
- Sample

d. To estimate the average salary of doctors in California.

- Population
- Sample



3

The Bookstall Inc. is a specialty bookstore concentrating on used books sold via the Internet. Paperbacks are \$2.00 each, and hardcover books are \$3.50. Of the 70 books sold last Tuesday morning, 60 were paperback and the rest were hardcover.

What was the weighted mean price of a book? (Round your answer to 2 decimal places.)

Weighted mean

00:12:56



4

A large oil company is studying the number of gallons of gasoline purchased per customer at self-service pumps. The mean number of gallons is 10.0, with a standard deviation of 3.0 gallons. The median is 10.75 gallons. What is Pearson's coefficient of skewness in this instance?

00:27:49


Multiple Choice

- 0.75
- 0.75
- 1.00
- 1.00

7

A bank asks customers to evaluate its drive-through service as good, average, or poor. Which level of measurement is this classification?

Multiple Choice

 00:26:12

Nominal

Interval

Ordinal

Ratio

6

For the following questions, would you collect information using a sample or a population?

a. A survey to rank the famous television shows in the United States.

- Population
- Sample

b. A research project to find how many heart attack patients are admitted on January 1 to a famous hospital.

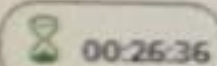
- Population
- Sample

c. A study to find the quality of matchsticks in a bundle of 100 matchboxes.

- Sample
- Population

d. An evaluation of the creativity of the director of three films.

- Sample
- Population




00:26:36



5

The number of families who used the Minneapolis YWCA day care service was recorded over a 30-day period. The results are as follows:

62	53	68	36	59	56	53	39	58	46
43	55	66	42	7	28	50	27	35	22
57	16	3	56	51	19	24	9	36	47

 00:27:06

[Click here for the Excel Data File](#)

Construct a cumulative frequency distribution of this data.

Class		Cumulative Frequency
0	up to	15
	up to	
	up to	
	up to	
	up to	



Evening Session

The number of families who used the Minneapolis YWCA day care follows:

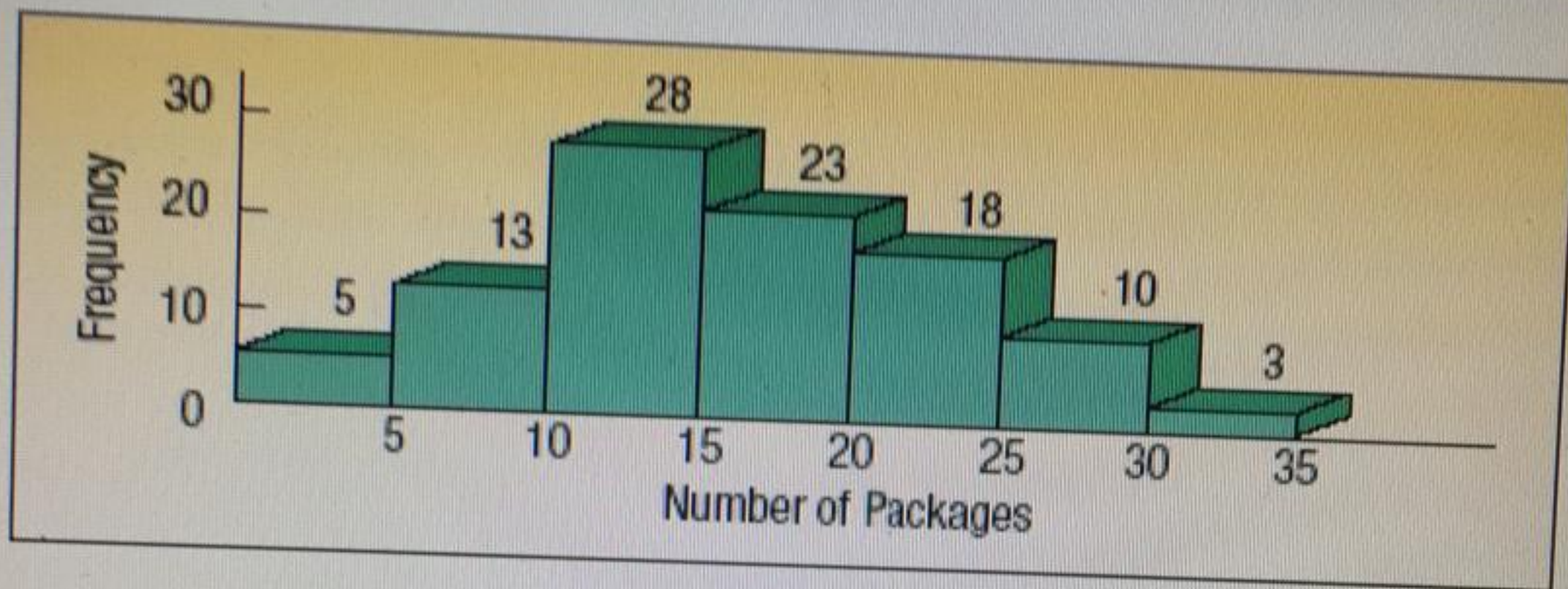
69	70	70	37	21	32	64	43	53	52
41	34	69	33	6	23	11	23	34	16
48	28	9	65	40	23	23	6	39	48

[Click here for the Excel Data File](#)

Construct a cumulative frequency distribution of this data.

Class			Cumulative Frequency
0	up to	15	2
15	up to	30	5
30	up to	45	8
45	up to	60	11
60	up to	75	5


3
A shop has several retail stores in the coastal areas of North and South
ship their purchases. The following chart shows the number of packages shipped



a. What is this chart called?

- Frequency polygon
- Histogram
- Bar chart



KSA Quiz I - Evening Session 

5

What is the median of 26, 30, 24, 32, 32, 31, 27, and 29?


Multiple Choice

32

29.5

29


30

 00:23:54

5

Compute the mean of the following population values: 5, 7, 5, 7, 6. **(Round your answer to 1 decimal place.)**

The mean is

 00:17:30

A bank asks customers to evaluate its drive-through service as good, average, or poor. Which level of measurement is this classification?

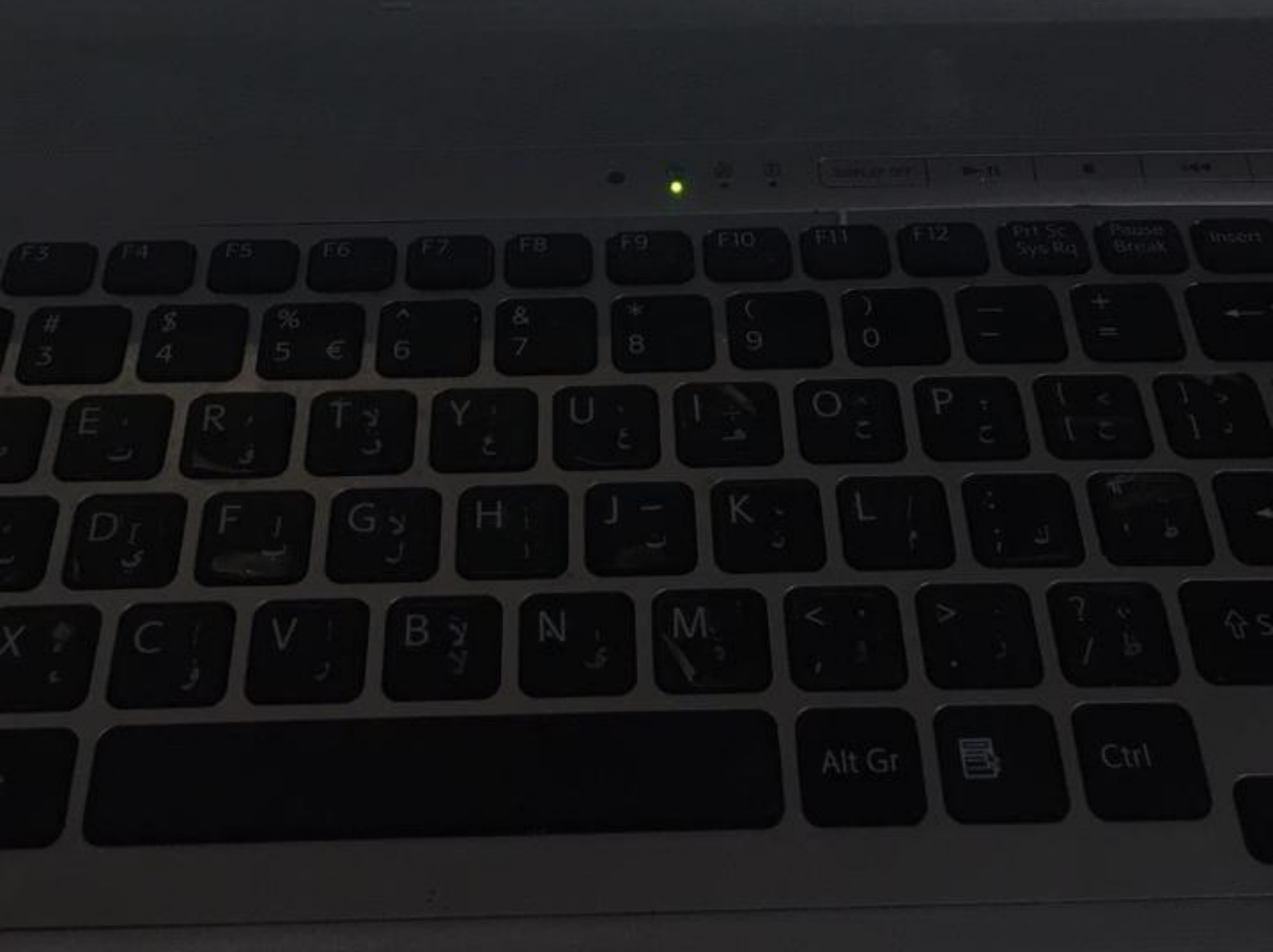
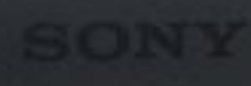
Multiple Choice

Nominal

Ratio

Interval

Ordinal



4

A bank asks customers to evaluate its drive-through service as good, average, or poor. Which level of measurement is this classification?

Multiple Choice

- Ratio
- Ordinal
- Interval
- Nominal

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Next >

For the following questions, would you collect information using a sample or a population?

a. A survey to rank the famous television shows in the United States.

- Population
- Sample

b. A research project to find how many heart attack patients are admitted on January 1 to a famous hospital.

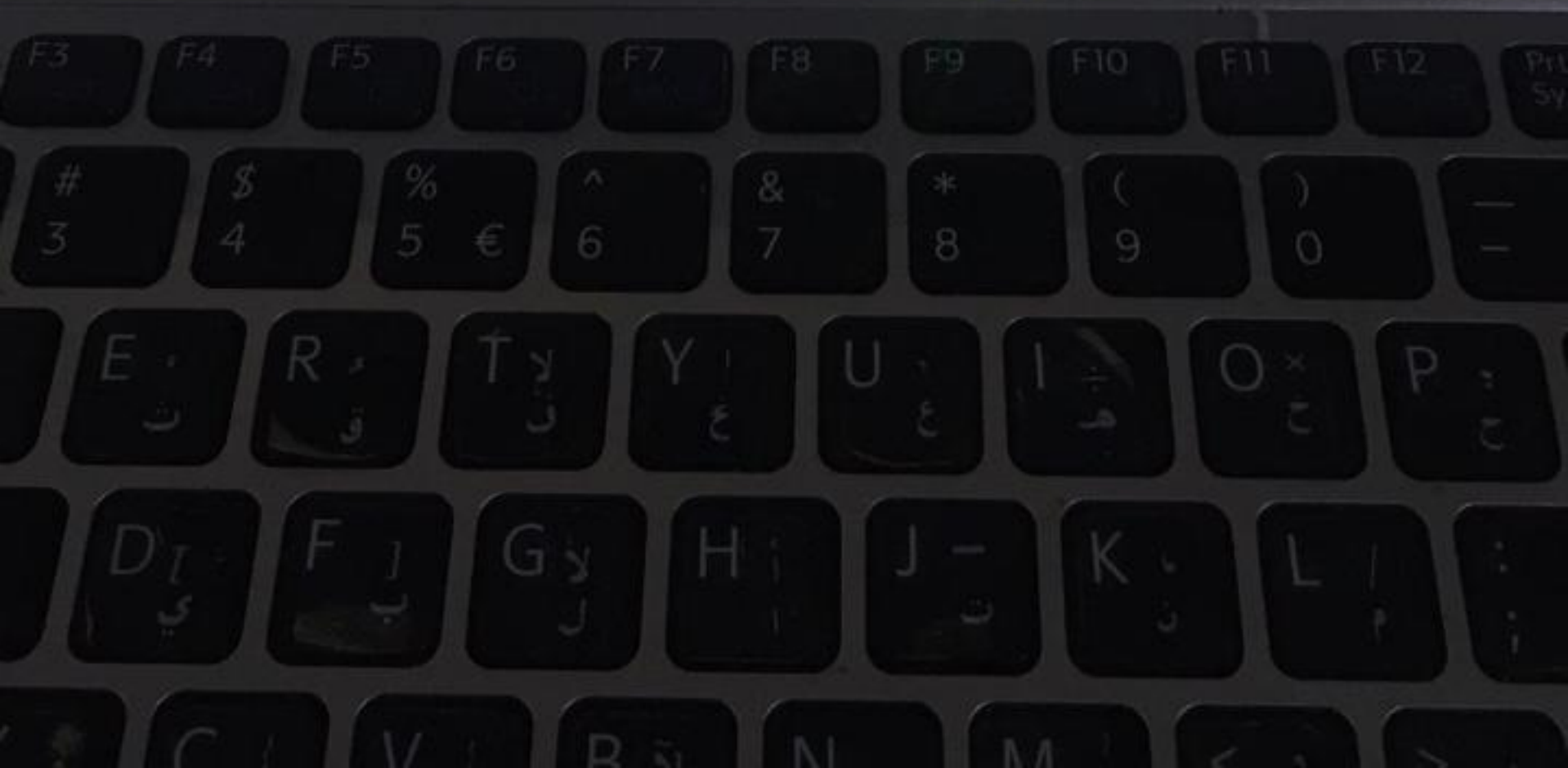
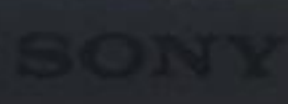
- Population
- Sample

c. A study to find the quality of matchsticks in a bundle of 100 matchboxes.

- Sample
- Population

d. An evaluation of the creativity of the director of three films.

- Sample
- Population



The performance of personal and business investments is measured as a percentage called "return on investment." What type of variable is "return on investment"?

Multiple Choice

- Attribute
- Qualitative
- Discrete
- Continuous

The performance of personal and business investments is measured as a percentage called "return on investment." What type of variable is "return on investment"?

Multiple Choice

 Continuous Attribute Discrete Qualitative

6

The number of families who used the Minneapolis YWCA day care service follows:

62	68	25	53	53	10	42	7	49	26
11	59	56	56	46	25	42	33	32	16
6	26	27	41	70	59	48	24	34	55

00:13:45

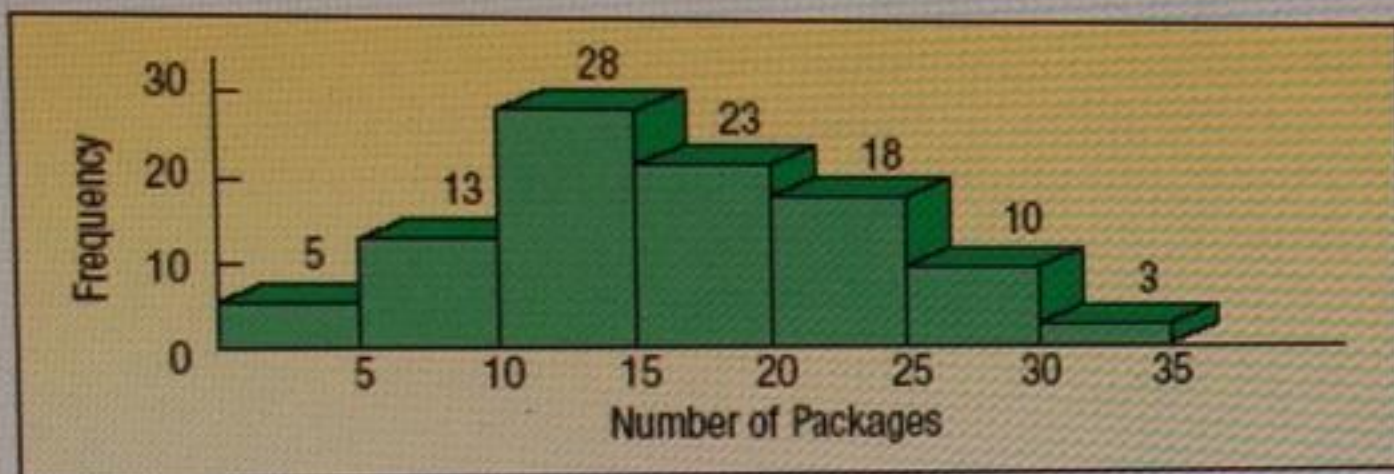
[Click here for the Excel Data File](#)

Construct a cumulative frequency distribution of this data.

Class			Cumulative Frequency
0	up to	15	4
15	up to	30	7
45	up to	60	12
75	up to	90	0
105	up to	120	0

7

Molly's Candle Shop has several retail stores in the coastal areas of North and South Carolina. Many of Molly's customers ask her to ship their purchases. The following chart shows the number of packages shipped per day for the last 100 days.



a. What is this chart called?

- Frequency polygon
- Bar chart
- Histogram

b. What is the total number of frequencies?

Frequencies

For the following questions, would you collect information using a sample or a population?

a. A survey to rank the famous television shows in the United States.

- Population
- Sample

b. A research project to find how many heart attack patients are admitted on January 1 to a famous hospital.

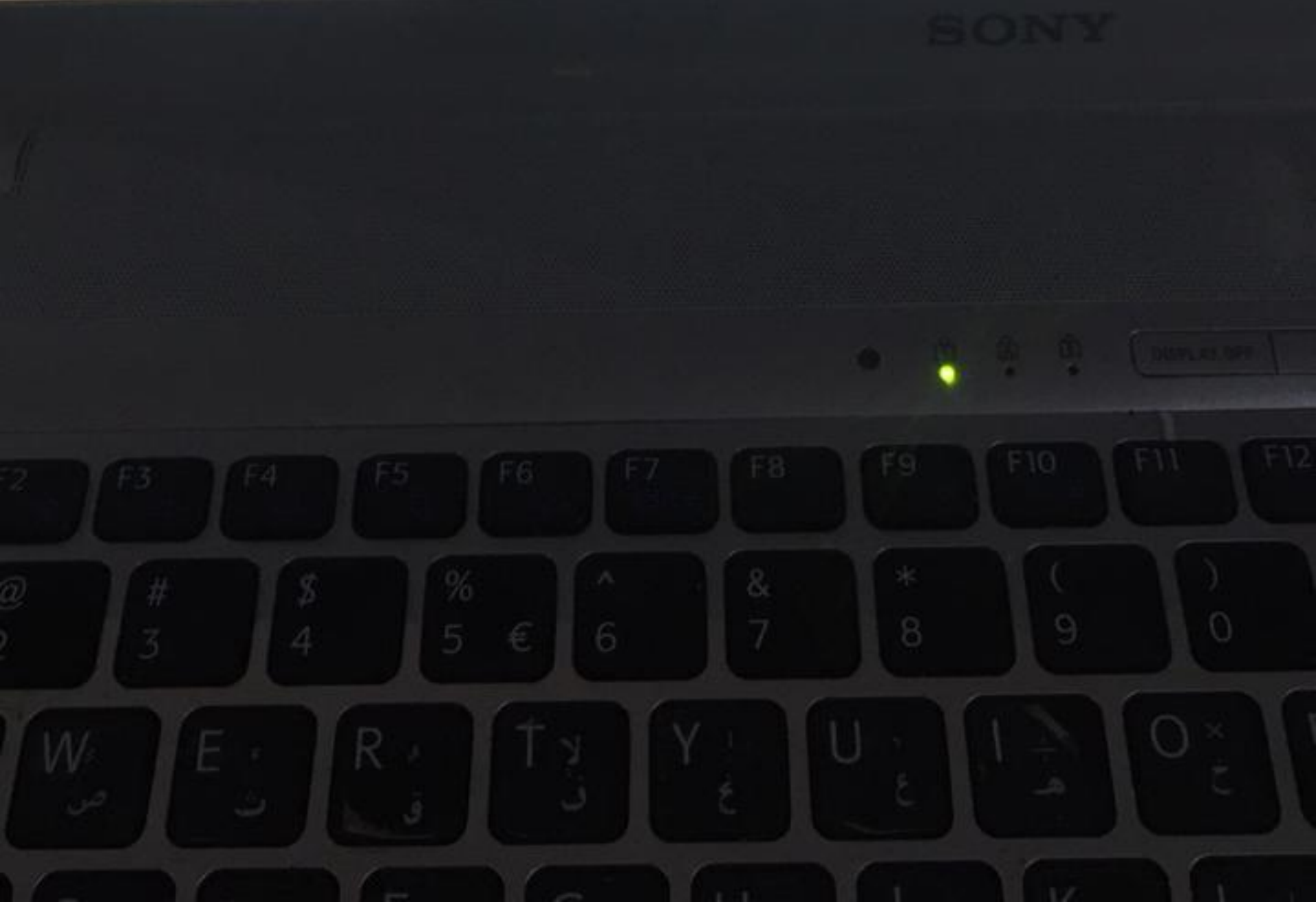
- Population
- Sample

c. A study to find the quality of matchsticks in a bundle of 100 matchboxes.

- Sample
- Population

d. An evaluation of the creativity of the director of three films.

- Sample
- Population



3

The 75th percentile is referred to as the _____

🕒 00:26:54


Multiple Choice


- first quartile
- third quartile
- second quartile
- fourth quartile



X www.aou-e

X www.aou-e

X AOU-KSA L 

X www.aou-e 

X KSA Quiz I

https://new

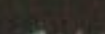
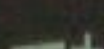
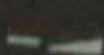
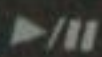
You're done!

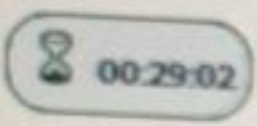
You submitted this assignment.

Total points: **36.55/100** points

Total score: **36.55%**

[Exit now](#)





a. How many employees were studied?

Number of employees

b. What is the midpoint of the first class? (Round your answer to 1 decimal place.)

Midpoint unit

d. A frequency polygon is to be drawn. What are the coordinates of the plot for the second class? (Round your answer to 1 decimal place.)

x = , y =

The following frequency distribution reports the number of frequent flier miles earned by employees of Statistical Consulting Inc. during the most recent quarter.

Frequent Flier Miles (000)	Number of Employees
0 up to 2	6
2 up to 4	10
4 up to 6	22
6 up to 8	7
8 up to 10	4
Total	<u>49</u>

a. How many employees were studied?

Number of employees


b. What is the midpoint of the first class? (Round your answer to one decimal place.)

Midpoint unit

1

The unemployment rate in the state of Alaska by month is given in the table below:

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
9.0	6.2	8.6	6.8	7.4	6.7	6.0	8.1	8.0	6.7	7.9	8.7

 00:28:31

[Click here for the Excel Data File](#)

a. What is the arithmetic mean of the Alaska unemployment rates? **(Round your answer to 2 decimal places.)**

Arithmetic mean

b. Find the median and the mode for the unemployment rates. **(Round your answers to 2 decimal places.)**

6

The following frequency distribution reports the number of frequent flier miles, reported in thousands, for employees of Brumley Statistical Consulting Inc. during the most recent quarter.

Frequent Flier Miles (000)	Number of Employees
0 up to 3	5
3 up to 6	10
6 up to 9	25
9 up to 12	8
12 up to 15	2
Total	<u>50</u>



00:29:03

a. How many employees were studied?

Number of employees

b. What is the midpoint of the first class? (Round your answer to 1 decimal place.)

Midpoint

unit



Demo Quiz - Pretest

Saved

2

The frequency distribution representing the number of frequent flier miles a Inc. is given below.

Frequent Flier Miles (000)	Number of Employees
0 up to 5	4
5 up to 10	13
10 up to 15	23
15 up to 20	8
20 up to 25	1
Total	49

00:14:16

How many employees accumulated less than 20,000 miles?

Number of employees

This is a numeric cell, so please enter numbers only.



عرض الكل



The Cambridge Power and Light Company selected a random sample of 20 residential customers. Following are the amounts, to the nearest dollar, the customers were charged for electrical service last month:

50	78	60	52	22	42	75	45	63	54
78	68	54	28	48	75	42	68	44	62

[Click here for the Excel Data File](#)

- a. Compute the arithmetic mean. (Round your answer to 2 decimal places.)

Arithmetic mean

- b. Indicate whether it is a statistic or a parameter.
- _____

Prev

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Next >



b. What is the midpoint of the first class? **(Round your answer to 1 decimal place.)**

Midpoint unit

d. A frequency polygon is to be drawn. What are the coordinates of the plot for the second class? **(Round your answer to 1 decimal place.)**

x = , y =



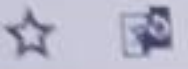
Saved

- Pretest **i**

Identify whether the table given below is a frequency table or a frequency distribution.

Subjects	Students
Accounting	10
Finance	5
Economics	3
Management	6
Marketing	10

- Frequency table
- Frequency distribution



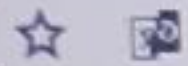
The accounting firm of Crawford and Associates has five senior partners. Yesterday the senior partners saw three, six, three, three, and five clients, respectively.

a. Compute the mean and median number of clients seen by the partners. **(Round your answers to 2 decimal places.)**

Mean	
Median	

b. The data represents a





AVX Home Entertainment, Inc., recently began a "no-hassles" return policy. A sample of 310 customers who recently returned items showed 100 thought the policy was fair, 170 thought it took too long to complete the transaction, and the rest had no opinion. On the basis of this information, make an inference about customer reaction to the new policy. **(Round your answers to 1 decimal place.)**

Customer Reaction	Percent
Fair	<input type="text"/> %
Too long	<input type="text"/> %
No opinion	<input type="text"/> %


The above data suggest that majority of the customers



Saved

Determine the median and the first and third quartiles in the following data.

46 47 49 49 51 53 54 54 55 55 59

 [Click here for the Excel Data File](#)

Median	<input type="text"/>
First quartile	<input type="text"/>
Third quartile	<input type="text"/>

< Prev

6 of 10



Next >

Saved

z - Pretest **i**

Classify the following as a population or sample:

a. Two chimpanzees chosen to carry out genetic research.

- Sample
- Population

b. All of the people that attended a movie at the local theater last month..

- Sample
- Population



The demand for the video games provided by Mid-Tech Video Games Inc. has exploded in the last several years. Hence, the owner needs to hire several new technical people to keep up with the demand. Mid-Tech gives each applicant a special test that Dr. McGraw, the designer of the test, believes is closely related to the ability to create video games. For the general population, the mean on this test is 100. Below are the scores on this test for the applicants.

118	90	89	90	98	120	96	114	92	24
-----	----	----	----	----	-----	----	-----	----	----

[Click here for the Excel Data File](#)

The president is interested in the overall quality of the job applicants based on this test.

- a. Compute the mean and the median scores for the 10 applicants. **(Round your answers to 1 decimal place.)**

Mean	<input type="text"/>
Median	<input type="text"/>

The frequency distribution representing the number of frequent flier miles accumulated by employees at Brumley Statistical Consulting Inc. is given below.

Frequent Flier Miles (000)	Number of Employees
0 up to 6	5
6 up to 12	10
12 up to 18	23
18 up to 24	8
24 up to 30	4
Total	50

How many employees accumulated less than 24,000 miles?

Number of employees

The unemployment rate in the state of Alaska by month is given in the table below:

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
8.1	9.5	9.0	6.0	8.3	8.8	7.5	8.9	7.3	8.1	7.2	7.0

[Click here for the Excel Data File](#)

- a. What is the arithmetic mean of the Alaska unemployment rates? **(Round your answer to 2 decimal places.)**

Arithmetic mean

- b. Find the median and the mode for the unemployment rates. **(Round your answers to 2 decimal places.)**

< Prev

10 of 10



Next >

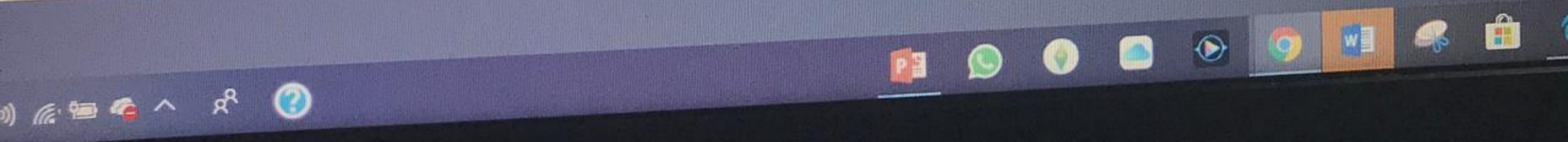


c-1. Compute the arithmetic mean and median for just the winter (Dec-Mar) months. **(Round your answers to 2 decimal places.)**

Mean	<input type="text"/>
Median	<input type="text"/>

c-2. Is it much different?

- The winter unemployment rates are higher.
- The winter unemployment rates are lower.
- The winter unemployment rates are equal.



Demo Quiz - Pretest i

3

You have **FIVE MINUTES**

00:04:03

Identify whether the table given below is a

Number of shares held	Frequency
under 200	8
200 up to 400	6
400 up to 600	5
600 up to 800	4
over 800	6

- Frequency distribution
- Frequency table

Frequency table

3

Determine the median and the first and third quartiles in the following data.

46 47 49 49 51 53 54 54 55 55 59



00:25:40




[Click here for the Excel Data File](#)

Median	
First quartile	
Third quartile	

6

The accounting firm of Crawford and Associates has five senior partners. Yesterday the senior partners saw three, six, three, three, and five clients, respectively.

- a. Compute the mean and median number of clients seen by the partners. **(Round your answers to 2 decimal places.)**

 00:01:38

Mean	<input type="text"/>
Median	<input type="text"/>

- b. The data represents a



3

Classify the following as a population or sample:

a. All immigrants to the United States in 2005.

- Population
- Sample

b. A few drops of blood from a patient for blood-typing.

- Population
- Sample

0:00:19



Midpoint unit



d. A frequency polygon is to be drawn. What are the coordinates of the plot for the second class? *(Round your answer to 1 decimal place.)*

x = , y =

The following frequency distribution reports the number of frequent flier miles, reported in thousands, for employees of Brumley Statistical Consulting Inc. during the most recent quarter.

Frequent Flier Miles (000)	Number of Employees
0 up to 2	6
2 up to 4	10
4 up to 6	22
6 up to 8	7
8 up to 10	4
Total	<u>49</u>

a. How many employees were studied?

1

The main purpose of descriptive statistics is to

00:29:45

Multiple Choice

- summarize data in a useful and informative manner.
- make inferences about a population.
- determine if the data adequately represent the population.
- gather or collect data.

2

A portion or part of a population is called a

00:29:26

Multiple Choice

- random survey.
- sample.
- tally.
- frequency distribution.

3

The members of each basketball team wear numbers on their jerseys. What scale of measurement are these numbers considered?

00:29:05

Multiple Choice

- Nominal
- Ordinal
- Interval
- Ratio

4

A student was interested in the cigarette-smoking habits of college students and collected data from an unbiased random sample of students. The data are summarized in the following table.

Males who smoke	20
Males who do not smoke	30
Females who smoke	25
Females who do not smoke	50

 00:28:33

What type of chart would best represent the data from this frequency table?

Multiple Choice

 Bar chart

5

A group of 100 students was surveyed about their interest in a new International Studies program. Interest was measured in terms of high, medium, or low. In the study, 30 students responded high interest, 40 students responded medium interest, and 30 students responded low interest. What is the relative frequency of students with high interest?

 00:27:53

Multiple Choice

 0.30 0.50 0.40

6

During the past six months, a purchasing agent placed the following three orders for coal.

Tons of Coal	1,200	3,000	500
Price Per Ton	\$28.50	\$87.25	\$88.00

 00:21:56

What is the weighted arithmetic mean price per ton?

Multiple Choice

 \$87.25 \$72.33

8

For a sample of similar-sized all-electric homes, the March electric bills were (to the nearest dollar): \$212, \$191, \$176, \$129, \$106, \$92, \$108, \$109, \$103, \$121, \$175, and \$194. What is the range?

00:18:39

Multiple Choice

\$100

\$130

\$120

9

Using the following statistics to describe a distribution of data, what is the interquartile range?

Minimum = 10

$Q_1 = 25$

Median = 50

$Q_3 = 75$

Maximum = 95

00:18:27

Multiple Choice

85

50

10

If Pearson's coefficient of skewness is equal to zero, the shape of the distribution is _____.

00:18:09

Multiple Choice

negatively skewed

symmetric

positively skewed

unknown

BUS102 - QUIZ 1 - ALL BRANCHES - FALL 2022 - EVENING SESS...

Saved

6

Compute the mean of the following sample values: 16.25, 12.91, 14.58. (Round your answer to 2 decimal places.)

Mean 38.00

00:25:34



Mc
Graw
Hill

< Prev 6 of 10 Next >

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Help Sa

4

40 up to 50	51
50 up to 60	80
60 up to 70	20
70 up to 80	8

00:18:45

Multiple Choice

- Histogram
- Frequency polygon
- Cumulative frequency distribution
- Frequency distribution



9:15 PM Thu 31 Mar

Course: [B124] Fundan

Session Expired

Course: BUS102

McGraw-Hill Education

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BUS102 - QUIZ 1 - SPRING 2022 - ALL BRA...

8

What statistics are needed to draw a box plot?

Saved

Help

00:18:14

Multiple Choice

The minimum, maximum, median, first and third quartiles

The median, mean, and standard deviation

The median and interquartile range

The mean and standard deviation

< Prev

8 of 10



Next >



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6

During the past six months, a purchasing agent placed the following three orders for coal.

Tons of Coal	1,900	3,700	1,200
Price Per Ton	\$27.50	\$87.35	\$98.00

00:18:23

What is the weighted arithmetic mean price per ton?

Multiple Choice

\$87.35

\$72.51

\$68.57



< Prev

6 of 10



Next >

3

An example of a qualitative variable is

00:19:04

Multiple Choice

- number of children in a family.
- weight of a person.
- color of ink in a pen.
- miles between oil changes.



Saved

5

Refer to the following distribution of commissions.

Monthly Commissions	Class Frequencies
\$600 up to \$800	3
800 up to 1,000	7
1,000 up to 1,200	11
1,200 up to 1,400	22
1,400 up to 1,600	40
1,600 up to 1,800	24
1,800 up to 2,000	9
2,000 up to 2,200	4

00:18:31

What is the relative frequency of salespeople who earn \$1,600 or more?

Multiple Choice

25.5%

27.5%



< Prev

5 of 10



Next >

Saved

5

What is the relative frequency of salespeople who earn \$1,600 or more?

Multiple Choice

00:18:27

- 25.5%
- 27.5%
- 29.5%
- 30.8%

< Prev

5 of 10



Next >

7

The following is the number of oil changes for the last 7 days at the Jiffy Lube located at the corner of Pennsylvania Avenue.

41	15	39	54	31	15	33
----	----	----	----	----	----	----

00:18:19

Determine the mean, median, and mode. (Round "Mean" to 2 decimal places.)

Mean	32.57
Median	31
Mode	15



8:15 PM Thu 31 Mar

Course: [B124] Fundam X Session Expired

Course: BUS102

McGraw-Hill Education X

Question 9 - BUS



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BUS102 - QUIZ 1 - SPRING 2022 - ALL BRA...

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Help Save & Exit Submit

9

A large oil company is studying the number of gallons of gasoline purchased per customer at self-service pumps. The mean number of gallons is 10.0, with a standard deviation of 3.0 gallons. The median is 10.75 gallons. What is Pearson's coefficient of skewness in this instance?

00:18:06

Multiple Choice

-1.00

-0.75

+0.75

+1.00

< Prev

9 of 10



Next >



2

A survey includes a question about marital status that has the following responses: single, married, divorced, separate or widowed. What is the level of measurement for this question?

00:19:09

Multiple Choice:

Ratio

Interval

Ordinal

Nominal





1

Which of the following is an example of a continuous variable?

00:19:13

Multiple Choice

- Tons of concrete to complete a parking garage
- Number of students in a statistics class
- Zip codes of shoppers
- Rankings of baseball teams in a league



10

What is the possible range of values for Pearson's coefficient of skewness?

00:18:01

Multiple Choice

- 1 and +1
- 3 and +3
- 0% and 100%
- Unlimited values

Saved

Help Sa

4

40 up to 50	51
50 up to 60	80
60 up to 70	20
70 up to 80	8

00:18:45

Multiple Choice

- Histogram
- Frequency polygon
- Cumulative frequency distribution

Frequency distribution



9:15 PM Thu 31 Mar

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8

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Saved

Help

00:18:14

Multiple Choice

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< Prev

8 of 10



Next >



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00:18:23

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Multiple Choice

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< Prev

6 of 10



Next >

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1,800 up to 2,000	9
2,000 up to 2,200	4

00:18:31

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Multiple Choice

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27.5%



< Prev

5 of 10



Next >

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Multiple Choice

00:18:27

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- 29.5%
- 30.8%

< Prev

5 of 10



Next >

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Multiple Choice

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-0.75

+0.75

+1.00

< Prev

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