1. Award: 10.00 points
(i) A frequency table is a grouping of qualitative data into mutually exclusive classes showing the number of observations in each class.
(ii) Simple bar charts may be constructed either horizontally or vertically.
(iii) A relative frequency table shows the fraction or percent of the number of observations in each class.
$\rightarrow 0$
(i), (ii) and (iii) are all correct statements.(i) and, (ii) are correct statements but not (iii).(i) and, (iii) are correct statements but not (ii).(ii) and, (iii) are correct statements but not (i).

References

```
Multiple Choice Learning Objective:
    02-01 Create a
    frequency table for a
    set of data.
Difficulty: Hard Learning Objective:
02-02 Organize data
into a bar chart.
```

(i) A frequency table is a grouping of qualitative data into mutually exclusive classes showing the number of observations in each class.
(ii) Simple bar charts may be constructed either horizontally or vertically.
(iii) A bar chart is a graphic representation of a frequency table.
$\rightarrow$ (i), (ii) and (iii) are all correct statements.(i) and, (ii) are correct statements but not (iii).(i) and, (iii) are correct statements but not (ii).(ii) and, (iii) are correct statements but not (i).

## References

```
Multiple Choice Learning Objective:
    02-01 Create a
    frequency table for a
    set of data.
```

Difficulty: Hard Learning Objective:
02-02 Organize data
into a bar chart.
(i) Pie charts are useful for showing the percent that various components compose of the total.
(ii) Simple bar charts may be constructed either horizontally or vertically.
(iii) A bar chart is a graphic representation of a frequency table.
$\rightarrow$ (i), (ii) and (iii) are all correct statements.
(i) and, (ii) are correct statements but not (iii).(i) and, (iii) are correct statements but not (ii).
(ii) and, (iii) are correct statements but not (i).

## References

```
Multiple Choice Learning Objective:
02-02 Organize data
into a bar chart.
```

Difficulty: Hard Learning Objective:
02-03 Present a set of data using a pie chart.

## 4. <br> Award: 10.00 points

(i) Bar charts are useful for showing the percent that various components compose of the total.
(ii) Simple bar charts may be constructed either horizontally or vertically.
(iii) A bar chart is a graphic representation of a frequency table.
$\bigcirc$
(i), (ii) and (iii) are all correct statements.(i) and, (ii) are correct statements but not (iii).(i) and, (iii) are correct statements but not (ii).(ii) and, (iii) are correct statements but not (i).

## References

```
Multiple Choice Difficulty: Hard Learning Objective: 02-02 Organize data into a bar chart.
```

(i) Bar charts are useful for showing the percent that various components compose of the total.
(ii) Simple bar charts may be constructed either horizontally or vertically.
(iii) A frequency polygon is ideal for showing the trend or sales of income over time.(i), (ii) and (iii) are all correct statements.(i) and, (ii) are correct statements but not (iii).(i) and, (iii) are correct statements but not (ii).
$\rightarrow$
(ii) and, (iii) are correct statements but not (i).

## References

```
Multiple Choice Learning Objective:
02-02 Organize data
into a bar chart.
```

Difficulty: Hard Learning Objective:
02-06 Present the
data from a
frequency
distribution in a
histogram or
frequency polygon.

Using the frequency table below, determine the relative frequencies for Apartment and Townhouse listings.

|  | Number <br> of <br> Type |
| :--- | :---: |
| Apartment | 58 |
| House | 26 |
| Townhouse | 14 |
|  | 98 |.5000 and .5000.5000 and .2653.2653 and .1429.1429 and .2495

$\rightarrow$ O
.5918 and .1429

## References

```
Multiple Choice Difficulty: Medium
```

Learning Objective: 02-05 Understand a relative frequency distribution.

Quinn's Café serves ice cream. She asks 100 of her regular customers to take a taste test and pick the flavour they like the best. The results are shown in the following table.

| Flavour | Number |
| :---: | :---: |
| Vanilla | 40 |
| Green tea | 25 |
| Lemon | 20 |
| Coffee | $\underline{15}$ |
| Total | 100 |

Is the data quantitative or qualitative? What is the name of the table shown?
quantitative, simple table
quantitative, frequency table
$\rightarrow$ 〇 qualitative, frequency table
qualitative, cumulative frequency distribution
quantitative, bar chart

References

Multiple Choice Difficulty: Medium Learning Objective: 02-01 Create a
frequency table for a set of data.

Statistics Canada report 2010 results in the following chart.


Is the data quantitative or qualitative? What is the name of the table shown?quantitative, simple tablequantitative, pie chartqualitative, frequency table
$\rightarrow 0$
qualitative, pie chartquantitative, bar chart

References

Multiple Choice
Difficulty: Medium
Learning Objective: 02-02 Organize data into a bar chart.

When data is collected using a qualitative, nominal variable, i.e., male or female, what is true about a frequency distribution that summarizes the data?

Upper and lower class limits must be calculated.
Class midpoints can be computed.
$\rightarrow$ Number of classes corresponds to number of the variable's values.
The "2 to the k rule" can be applied.

## References

Multiple Choice Difficulty: Medium Learning Objective: 02-01 Create a frequency table for a set of data.

## 10. Award: 10.00 points

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

Male: 50
Males who smoke: 20
Males who do not smoke: 30

Female: 75
Females who smoke: 25
Females who do not smoke: 50

Why is the table NOT a frequency table?

The number of males does not equal the sum of males that smoke and do not smoke.
$\rightarrow$ The classes are not mutually exclusive.There are too many classes.Class limits cannot be computed

## References

Multiple Choice Difficulty: Medium Learning Objective: 02-01 Create a frequency table for a set of data.

A group of 100 students were surveyed about their interest in a new International Studies program. The survey asked students about their interest in the program in terms of high, medium, or low. 30 students responded high interest; 50 students responded medium interest; 20 students responded low interest. What is the relative frequency of students with medium interest?

|  | $\bigcirc 30 \%$ |
| ---: | :--- |
| $\rightarrow$ | $50 \%$ |

20\%
Cannot be determined.

## References

Multiple Choice Difficulty: Easy Learning Objective: 02-01 Create a frequency table for a set of data.

## 12. Award: 10.00 points

Which of the following would be most helpful if you wished to construct a pie chart?a frequency distributiona relative frequency tablea cumulative frequency distributionan ogivea clustered bar chart

## References

Multiple Choice Difficulty: Medium Learning Objective: 02-03 Present a set of data using a pie chart.

If the enrolment for this Faculty of Business remained constant at 625 between 2000 and 2001, determine the change in the enrolment in the School of Accounting during this time.


$\rightarrow$increase of 19 studentsdecrease of 19 studentsincrease of 75 studentsdecrease of 75 studentsdecrease of 25 students

References

The chart below shows the Gross Domestic Product for 7 nations. Which of the following statements can be determined from this chart?

## GDP (\$trillions)

The GDP of the USA is approximately twice the size of each of the other countries.Germany's GDP is approximately half of that of Japan.Germany's GDP is approximately half of that of Canada.The GDP of the USA is larger than the total GDP of all the other 6 countries combined.

## References

Multiple Choice
Difficulty: Medium
Learning Objective: 02-02 Organize data into a bar chart.

The chart below shows the Gross Domestic Product for 7 nations. Which of the following statements can be determined from this chart?

GDP (\$trillions)
The GDP of the USA is approximately twice the size of each of the other countries.Germany's GDP is approximately half of that of Italy.Germany's GDP is approximately twice of that of Canada.The GDP of Japan is approximately $\$ 4$ trillion.

## References

(i) A frequency distribution is grouping of data into classes showing the number of observations in each class.
(ii) The midpoint of a class, which is also called a class mark, is halfway between the lower and upper limits.
(iii) A class interval, which is the width of a class, can be determined by subtracting the lower limit of a class from the lower limit of the next higher class.(i), (ii) and (iii) are all correct statements.(i) and, (ii) are correct statements but not (iii).(i) and, (iii) are correct statements but not (ii).
(ii) and, (iii) are correct statements but not (i).

## References

Multiple Choice
Difficulty: Medium
Learning Objective: 02-04 Create a frequency distribution for a data set.
(i) A frequency distribution is grouping of data into classes showing the number of observations in each class.
(ii) In constructing a frequency distribution, you should try to have open-ended classes such as "Under \$100" and "\$1,000 and over".
(iii) A cumulative frequency distribution is used when we want to determine how many observations lie above or below certain values.(i), (ii) and (iii) are all correct statements.(i) and, (ii) are correct statements but not (iii).
$\rightarrow$ (i) and, (iii) are correct statements but not (ii).
(ii) and, (iii) are correct statements but not (i).

## References

```
Multiple Choice Learning Objective: Learning Objective: 02-07 Construct and
    02-01 Create a interpret a cumulative frequency
    frequency table for a distribution.
    set of data
```

| Difficulty: | Learning Objective: |
| :--- | :--- |
| Medium | O2-04 Create a |
|  | frequency |
|  | distribution for a |
|  | data set. |

Monthly commissions of first-year insurance brokers are $\$ 1,270, \$ 1,310, \$ 1,680, \$ 1,380, \$ 1,410$, $\$ 1,570, \$ 1,180$ and $\$ 1,420$. These figures are referred to as:
histogram.
$\rightarrow$ raw data.frequency distribution.
frequency polygon.

## References

Multiple Choice Learning Objective:
02-01 Create a
frequency table for a
set of data.

Difficulty: Easy Learning Objective:
02-04 Create a
frequency
distribution for a
data set.

The monthly incomes of a small sample of computer operators are $\$ 1,950, \$ 1,775, \$ 2,060, \$ 1,840$, $\$ 1,795, \$ 1,890, \$ 1,925$ and $\$ 1,810$. What are these ungrouped numbers called?

O Histogram
Class limits
Class frequencies
$\rightarrow \bigcirc$ Raw data

## References

Multiple Choice Learning Objective:
02-01 Create a
frequency table for a
set of data.

Difficulty: Easy Learning Objective:
02-04 Create a
frequency
distribution for a
data set.
20. Award: 10.00 points

A group of 100 students were surveyed about their interest in a new International Studies program. The survey asked students about their interest in the program in terms of high, medium, or low. 30 students responded high interest; 50 students responded medium interest; 20 students responded low interest. What is the relative frequency of students with high interest?
$\rightarrow$ 30\%50\%$20 \%$
O
Cannot be determined.

## References

Multiple Choice Difficulty: Easy
Learning Objective: 02-01 Create a frequency table for a set of data.

When a class interval is expressed as: 100 to under 200

Observations with values of 100 are excluded from the class frequency.
Observations with values of 200 are included in the class frequency.
$\rightarrow$ Observations with values of 200 are excluded from the class frequency.
The class interval is 99 .

References

Multiple Choice Difficulty: Easy
Learning Objective: 02-04 Create a frequency distribution for a data set.

What is the following table called?

| Ages | Number of Ages |
| :---: | :---: |
| 20 to under 30 | 16 |
| 30 to under 40 | 25 |
| 40 to under 50 | 51 |
| 50 to under 60 | 80 |
| 60 to under 70 | 20 |
| 70 to under 80 | 8 |

HistogramFrequency polygonCumulative frequency distribution
$\rightarrow$ Frequency distribution

## References

```
Multiple Choice Learning Objective:
            02-01 Create a
            frequency table for a
    set of data.
```

Difficulty: Easy Learning Objective: 02-04 Create a
frequency
distribution for a
data set.
23. Awarc: 10.00 ponits

The chart below can be best described as
Frequency Polygon
$\rightarrow$ Bar chart
O Pie chartStacked bar chartCumulative stacked bar chart

## References

A group of 100 students were surveyed about their interest in a new International Studies program. The survey asked students about their interest in the program in terms of high, medium, or low. 30 students responded high interest; 50 students responded medium interest; 20 students responded low interest. What is the relative frequency of students with low interest?
$30 \%$
50\%
$\rightarrow$ 20\%
Cannot be determined.

## References

Multiple Choice Difficulty: Easy
Learning Objective: 02-01 Create a frequency table for a set of data.

## 25. Award: 10.00 points

The monthly salaries of a sample of 100 employees were rounded to the nearest ten dollars. They ranged from a low of $\$ 1,040$ to a high of $\$ 1,720$. If we want to condense the data into seven classes, what is the most convenient class interval?

## References

Multiple Choice Difficulty: Easy

For the following distribution of heights, what are the limits for the class with the greatest frequency?

| Heights <br> Number | $60 "$ to under 65" | $65 "$ to under $70 "$ |
| :--- | :---: | :---: |
|  | 10 | $70 "$ to under $75 \prime$ |64 and 7065 and 6965 and 7069.5 and 74.5

## References

| Multiple Choice Difficulty: Easy | Learning Objective: 02-04 Create a <br> frequency distribution for a data set. |
| :--- | :--- |

27. Award: 10.00 points

In a frequency distribution, what is the number of observations in a class called?

Class midpointClass intervalClass array
$\rightarrow$ Class frequency

## References

Multiple Choice Difficulty: Easy

A sample distribution of hourly earnings in Paul's Cookie Factory is:

| Hourly Earnings | $\$ 6$ to under $\$ 9$ | $\$ 9$ to under $\$ 12$ | $\$ 12$ to under \$15 |
| :--- | :---: | :---: | :---: |
| Numbers | 16 | 42 | 10 |

The limits of the class with the smallest frequency are:
$\$ 6.00$ and $\$ 9.00$$\$ 12.00$ and $\$ 14.00$$\$ 11.75$ and $\$ 14.25$
$\rightarrow$ \$12.00 and \$15.00

## References

## Multiple Choice Difficulty: Easy Learning Objective: 02-04 Create a

 frequency distribution for a data set.29. Award: 10.00 points

Why are unequal class intervals sometimes used in a frequency distribution?
$\rightarrow$ To avoid a large number of empty classes
For the sake of variety in presenting the data
To make the class frequencies smaller
To avoid the need for midpoints

## References

Multiple Choice Difficulty: Easy $\begin{aligned} & \text { Learning Objective: 02-04 Create a } \\ & \text { frequency distribution for a data set. }\end{aligned}$

Consider the following relative frequency distribution:

| Class Interval | Relative Frequency |
| :--- | :--- |
| to under 10 | 0.2 |
| 10 to under 20 | 0.3 |
| 20 to under 30 | 0.45 |
| 30 to under 40 | 0.05 |

If there are 2,000 numbers in the data set, how many of the values are less than 30 ?

90090
$\rightarrow$
1900100

References

Multiple Choice Difficulty: Easy Learning Objective: 02-05 Understand a relative frequency distribution.
31. Award: 10.00 points

Refer to the following price of jeans are recorded to the nearest dollar: The first two class midpoints are $\$ 62.50$ and $\$ 65.50$. What is the class interval?$\$ 1.00$$\$ 2.00$$\$ 2.50$
$\rightarrow$ \$3.00

References

| Multiple Choice | Difficulty: Medium $\quad$Learning Objective: 02-04 Create a <br> frequency distribution for a data set. |
| ---: | :--- |

Refer to the following price of jeans are recorded to the nearest dollar: The first two class midpoints are $\$ 62.50$ and $\$ 65.50$.
What are the class limits for the lowest class?
$\rightarrow$ §61 and up to \$64
\$62 and up to $\$ 64$
\$62 and $\$ 65$
\$62 and \$63

References

Multiple Choice Difficulty: Hard
Learning Objective: 02-04 Create a
frequency distribution for a data set.
33. Award: 10.00 points

Refer to the following price of jeans are recorded to the nearest dollar:
The first two class midpoints are $\$ 62.50$ and $\$ 65.50$.
What are the class limits for the third class?
\$64 and \$67
\$67 and \$69
$\rightarrow$ \$67 and \$70
\$66 and \$68

References

Multiple Choice Difficulty: Hard
Learning Objective: 02-04 Create a frequency distribution for a data set.

Refer to the following ages (rounded to the nearest whole year) of employees at a large company that were grouped into a distribution with class limits:

20 up to 30
30 up to 40
40 up to 50
50 up to 60
60 up to 70
What is the class interval and the midpoint of the first class?20 and 2520 and 24.5
$\rightarrow$ O
10 and 2510 and 24.5

## References

## Multiple Choice Difficulty: Easy

Learning Objective: 02-04 Create a frequency distribution for a data set.

| Cost of Textbooks | Number |
| :--- | :---: |
| $\$ 25$ up to $\$ 35$ | 2 |
| 35 up to 45 | 5 |
| 45 up to 55 | 20 |
| 55 up to 65 | 16 |
| 65 up to 75 |  |
|  |  |
| 49 |  |
| 49.5 |  |
| 50 |  |
| 50.5 |  |

References

What are the class limits for the $\$ 55$ up to $\$ 65$ class?

| Cost of Textbooks | Number |
| :---: | :---: |
| \$25 up to \$35 | 2 |
| 35 up to 45 | 5 |
| 45 up to 55 | 7 |
| 55 up to 65 | 20 |
| 65 up to 75 | 16 |
| O 55 and 64 |  |
| O 54 and 64 |  |
| $\rightarrow \bigcirc 55$ and up to 65 |  |
| 55 and 64.5 |  |

References

The following class intervals for a frequency distribution were developed to provide information regarding the starting salaries for students graduating from a particular school:

| Salary (\$1,000s) | Number of Graduates |
| :---: | :---: |
| 18 -under 21 | - |
| $21-$ under 25 | - |
| $24-$ under 27 | - |
| 29 -under 30 | - |

Before data was collected, someone questioned the validity of this arrangement. Which of the following represents a problem with this set of intervals?there are too many intervalsthe class widths are too smallsome numbers between 18,000 and 30,000 would fall into two different intervalsthe first and the second interval overlap

## References

Multiple Choice
Difficulty: Medium
Learning Objective: 02-04 Create a
frequency distribution for a data set

The following class intervals for a frequency distribution were developed to provide information regarding the starting salaries for students graduating from a particular school:

| Salary (\$1,000s) | Number of Graduates |
| :---: | :---: |
| 18 -under 21 | - |
| $21-$ under 25 | - |
| 24 -under 27 | - |
| 29 -under 30 | - |

Before data was collected, someone questioned the validity of this arrangement. Which of the following represents a problem with this set of intervals?there are too many intervalsthe class widths are too smallsome numbers between 18,000 and 30,000 would not fall into any of these intervalsthe first and the second intervals overlapthe second and third intervals overlap

## References

```
Multiple Choice

The head of the statistics department wants to determine the number of mistake made by students in their first online assignment. She gathers information from her classes of the past year.
Errors Per Assignment
0 to under 2
2 to under 4
Number of Students
4 to under 6
40
6 to under 8 8 to under \(10 \quad 20\) 50301020

The approximate range (distance from the minimum value in the raw data up to the maximum value) of the data is \(\qquad\) _.

15040
\(\rightarrow\) 10
○ 2

References

Multiple Choice Difficulty: Medium Learning Objective: 02-04 Create a frequency distribution for a data set.

Refer to the following distribution of commissions:
\begin{tabular}{lc}
\hline Monthly commissions & Class Frequencies \\
\hline\(\$ 600\) to under \(\$ 800\) & 3 \\
800 to under 1,000 & 7 \\
1,000 to under 1,200 & 11 \\
1,200 to under 1,400 & 22 \\
1,400 to under 1,600 & 40 \\
1,600 to under 1,800 & 24 \\
1,800 to under 2,000 & 9 \\
2,000 to under 2,200 & 4
\end{tabular}

What is the relative frequency for those salespersons that earn between \(\$ 1,600\) and \(\$ 1,799\) ?
```

        O2%
        O.4%
    -> 20%
O24%

```
    References
Multiple Choice Difficulty: Medium Learning Objective: 02-05 Understand a
    relative frequency distribution.
41. Award: 10.00 points

The first plot for a cumulative greater than frequency distribution should be:
\[
\left.\begin{array}{rl}
X=0, Y=600 \\
X & =600, Y=3 \\
X=3, Y=600
\end{array}\right\} \begin{aligned}
& X=600, Y=120
\end{aligned}
\]

\section*{References}
Multiple Choice Difficulty: Medium \begin{tabular}{l} 
Learning Objective: 02-07 Construct and \\
interpret a cumulative frequency \\
distribution.
\end{tabular}
42. Award: 10.00 points

What is the relative frequency of those salespersons that earn more than \(\$ 1,599\) ?\(25.5 \%\)

○ \(27.5 \%\)
○ \(29.5 \%\)
\(\rightarrow\) 〇 \(30.8 \%\)

References

Multiple Choice Difficulty: Medium Learning Objective: 02-05 Understand a relative frequency distribution.
43. Award: 10.00 points

What is the relative frequency for those salespersons that earn between \(\$ 1,500\) and \(\$ 1,800\) ?
- \(2 \%\)
- \(2.4 \%\)
- \(20 \%\)
- \(24 \%\)
\(\rightarrow \bigcirc\) Unable to determine without approximation

\section*{References}

Multiple Choice Difficulty: Medium Learning Objective: 02-05 Understand a relative frequency distribution.
(i) Simple bar charts may be constructed either horizontally or vertically.
(ii) A frequency polygon is a very useful graphic technique when comparing two or more distributions
(iii) A cumulative frequency distribution is used when we want to determine how many observations lie above or below certain values.(i), (ii) and (iii) are all correct statements.(i) and, (ii) are correct statements but not (iii).(i) and, (iii) are correct statements but not (ii).(ii) and, (iii) are correct statements but not (i).

0
(i), (ii), and (iii) are all false statements.

\section*{References}
\begin{tabular}{lll} 
Multiple Choice & Learning Objective: & Learning Objective: 02-07 Construct and \\
& \begin{tabular}{ll} 
02-02 Organize data \\
into a bar chart. & \\
interpret a cumulative frequency
\end{tabular} \\
distribution.
\end{tabular}

Difficulty: Learning Objective:
Medium 02-06 Present the
data from a
frequency
distribution in a
histogram or
frequency polygon.

One rule that must always be followed in constructing frequency distributions is that \(\qquad\) .the number of classes must be less than 10
\(\rightarrow\) each data point can only fall into one classthe width of each class is equal to the rangethe number of intervals must be an odd numberthe class intervals must overlap

References
```

Multiple Choice Learning Objective:
02-01 Create a
frequency table for a
set of data.

```
Difficulty: Learning Objective:
Medium 02-04 Create a
    frequency
    distribution for a
    data set.

Refer to the following chart showing a distribution of exporting firms:
\begin{tabular}{|cc|}
\hline Exports (\$ millions) & Number of Firms \\
\hline\(\$ 2\) to under \(\$ 5\) & 6 \\
5 to under 8 & 13 \\
8 to under 11 & 20 \\
11 to under 14 & 10 \\
14 to under 17 & 3 \\
\hline
\end{tabular}

For the distribution above, what is the midpoint of the class with the greatest frequency?
\(\$ 6\) million
\(\rightarrow\) \$9.5 million
\(\$ 15.5\) million
The midpoint cannot be determined

References

Multiple Choice Difficulty: Medium Learning Objective: 02-04 Create a
frequency distribution for a data set.
47. Award: 10.00 points

What is the class interval? \(\qquad\)

O2
\(\rightarrow\) ○ 3
3.5

O

References

Multiple Choice Difficulty: Medium Learning Objective: 02-04 Create a frequency distribution for a data set.

How many firms export less than \(\$ 14\) million in product?

O 3
60
50
\(\rightarrow\) - 49

\section*{References}
```

Multiple Choice Learning Objective:
02-04 Create a
frequency
distribution for a
data set.

```
\begin{tabular}{ll} 
Difficulty: & Learning Objective: \\
Medium & O2-07 Construct and \\
& \begin{tabular}{l} 
interpret a \\
cumulative \\
frequency \\
distribution.
\end{tabular}
\end{tabular}
49. Award: 10.00 points

What percentage of the firms export less than \(\$ 14\) million in product?\(3 \%\)
(6\%\(49 \%\)
\(\rightarrow\) 94\%
\(75 \%\)

\section*{References}

Multiple Choice Difficulty: Medium

Learning Objective: 02-07 Construct and interpret a cumulative frequency distribution.

Refer to the following distribution of commissions:
\begin{tabular}{ll}
\hline Monthly commissions & \\
Class Frequencies \\
\hline\(\$ 600\) to under \(\$ 800\) & 3 \\
800 to under 1,000 & 7 \\
1,000 to under 1,200 & 11 \\
1,200 to under 1,400 & 22 \\
1,400 to under 1,600 & 40 \\
1,600 to under 1,800 & 24 \\
1,800 to under 2,000 & 9 \\
2,000 to under 2,200 & 4 \\
\hline
\end{tabular}
50.

Award: 10.00 points

What is the class interval for the table of commissions above?
\(\rightarrow\) \$200
\(\$ 3\)\(\$ 400\)\(\$ 1600\)

References
\(51 . \quad\) Award: 10.00 points

What is the class midpoint for the class with the greatest frequency?
\[
\begin{array}{r}
\bigcirc \$ 1400 \\
\$ 1500 \\
\$ 1600 \\
\$ 1700
\end{array}
\]

References

Multiple Choice Difficulty: Medium Learning Objective: 02-04 Create a
frequency distribution for a data set.

\section*{\(52 . \quad\) Award: 10.00 points}

What are the class limits for the class with the smallest number of frequencies?
\(\rightarrow \bigcirc 600\) and 800
800 and1000
2000 and 2200
599 and 799

References
Multiple Choice Difficulty: Medium \begin{tabular}{l} 
Learning Objective: 02-04 Create a \\
frequency distribution for a data set.
\end{tabular}

Refer to the following distribution of ages:
\begin{tabular}{|lc|}
\hline Ages & Number \\
\hline 40 up to 50 & 10 \\
50 up to 60 & 28 \\
60 up to 70 & 12 \\
\hline
\end{tabular}

\section*{53. Award: 10.00 points}

For the distribution of ages above, what is the relative class frequency for the lowest class?
\(50 \%\)
\(18 \%\)
\(\rightarrow\) 20\%
\(10 \%\)

References

Multiple Choice Difficulty: Medium Learning Objective: 02-05 Understand a relative frequency distribution.
54. Award: 10.00 points

What is the class interval?
\(\bigcirc 9\)
\(\rightarrow\) 〇 10
10.5

O 11

References

Multiple Choice Difficulty: Medium Learning Objective: 02-04 Create a frequency distribution for a data set.
55. Award: 10.00 points

What is the class midpoint of the highest class?545564
```

->065

```

References

Multiple Choice Difficulty: Medium Learning Objective: 02-04 Create a
frequency distribution for a data set.

Refer to the following cumulative frequency distribution on days absent during a calendar year by employees of a manufacturing company:
\begin{tabular}{cc} 
Days Absent & Cumulative Number of \\
& \(\frac{\text { Employees }}{}\) \\
0 to under 3 & 60 \\
3 to under 6 & 31 \\
6 to under 9 & 14 \\
9 to under 12 & 6 \\
12 to under 15 & 2
\end{tabular}
56. Award: 10.00 points

How many employees were absent between 3 to under 6 days?
\(\rightarrow\) 31
○ 29
○ 14
○ 2
○ 17

References

Multiple Choice Difficulty: Easy
Learning Objective: 02-04 Create a frequency distribution for a data set.

\section*{57. Award: 10.00 points}

How many employees were absent fewer than six days?

60
31
\(\rightarrow\) 91
○ 46

\section*{References}
```

Multiple Choice Learning Objective:
02-04 Create a
frequency
distribution for a
data set.

```
\begin{tabular}{ll} 
Difficulty: & Learning Objective: \\
Medium & O2-07 Construct and \\
interpret a \\
& cumulative \\
& frequency \\
& distribution.
\end{tabular}
58. Awarc: 10.00 oponits

How many employees were absent six or more days?
84
\(\rightarrow\) ○ 22
31

\section*{References}

Multiple Choice Learning Objective: 02-04 Create a frequency
distribution for a data set.

Difficulty: Learning Objective:
Medium 02-07 Construct and interpret a
cumulative
frequency
distribution.
59. Award: 10.00 points

How many employees were absent from 6 to under 12 days?
\(\rightarrow\) 〇 20
○ 8
12
○ 17

References

Multiple Choice Learning Objective: 02-04 Create a frequency
distribution for a
data set.

Difficulty: Learning Objective:
Medium 02-07 Construct and interpret a
cumulative
frequency
distribution.
(i) Pie charts are useful for showing the percent that various components compose of the total.
(ii) Simple bar charts may be constructed either horizontally or vertically.
(iii) A Frequency Polygon is ideal for showing the trend or sales of income over time.
\(\rightarrow\) (i), (ii) and (iii) are all correct statements.
(i) and, (ii) are correct statements but not (iii).(i) and, (iii) are correct statements but not (ii).(ii) and, (iii) are correct statements but not (i).
(i), (ii) and (iii) are all false statements.

References
\begin{tabular}{lll} 
Multiple Choice & Learning Objective: & Learning Objective: 02-06 Present the \\
& \begin{tabular}{ll} 
O2-02 Organize data \\
into a bar chart. & \\
data from a frequency distribution in a
\end{tabular} \\
& histogram or frequency polygon.
\end{tabular}

Difficulty: Hard Learning Objective:
02-03 Present a set of data using a pie chart.
(i) In constructing a frequency distribution, you should try to have open-ended classes such as "Under \$100" and "\$1,000 and over".
(ii) To convert a frequency distribution to a relative frequency distribution, divide each class frequency by the sum of the class frequencies.
(iii) When constructing a frequency distribution, try to include overlapping stated class limits, such as 100 up to 201, 200 up to 301, and 300 up to 401.(i), (ii) and (iii) are all correct statements.(i) and, (ii) are correct statements but not (iii).(i) and, (iii) are correct statements but not (ii).
\(\rightarrow\) (ii) is a correct statement but not (i) or (iii).
(i), (ii) and (iii) are all false statements.

\section*{References}
```

Multiple Choice Learning Objective: Learning Objective: 02-05 Understand a 02-01 Create a relative frequency distribution. frequency table for a set of data.

```
\begin{tabular}{ll} 
Difficulty: Hard & Learning Objective: \\
& O2-04 Create a \\
& frequency \\
& distribution for a \\
& data set.
\end{tabular}
\begin{tabular}{|ccc|}
\hline Cost of Textbooks & & Number \\
up to \(\$ 35\) & 2 \\
35 up to 45 & 5 \\
45 up to 55 & 7 \\
55 up to 65 & 20 \\
65 up to 75 & 16 \\
\hline
\end{tabular}\(2 \%\)
\(\rightarrow\) - \(4 \%\)
(5\%
\(10 \%\)None of the choices are correct.

\section*{References}
Multiple Choice Difficulty: Easy \begin{tabular}{l} 
Learning Objective: 02-01 Create a \\
frequency table for a set of data.
\end{tabular}
63. Award: 10.00 ponins

The relative frequency for a class is computed asClass width divided by class interval.Class midpoint divided by the class frequency.Class frequency divided by the class interval.
\(\rightarrow\)
Class frequency divided by the total frequency.

\section*{References}

When a class interval is expressed as: 100 to under 200
(i) Observations with values of 100 are included from the class frequency.
(ii) Observations with values of 200 are included in the class frequency.
(iii) Observations with values of 200 are excluded from the class frequency.(i), (ii) and (iii) are all correct statements.(i) and, (ii) are correct statements but not (iii).(i) and, (iii) are correct statements but not (ii).(ii) is a correct statement but not (i) or (iii).

\section*{References}

Multiple Choice
Difficulty: Medium
Learning Objective: 02-04 Create a frequency distribution for a data set.

The age distribution of a sample of the part-time employees at Lloyd's Fast Food Emporium is:
\begin{tabular}{cc} 
Ages & Cumulative Number \\
18 up to 23 & 6 \\
23 up to 28 & 19 \\
28 up to 33 & 52 \\
33 up to 38 & 61 \\
38 up to 43 & 65
\end{tabular}

What type of chart has the data been organized to draw?HistogramSimple Frequency PolygonCumulative frequency polygonPie chartFrequency polygon

\section*{References}
66. Award: 10.00 ponits

The chart below can be best described as


Frequency Polygon
Bar chartClustered bar chartStacked bar chart
\(\rightarrow\) Histogram

\section*{References}

The chart below can be best described as

\(\rightarrow\) Frequency Polygon
Bar chart
Clustered bar chartStacked bar chart
O Histogram

\section*{References}
Multiple Choice Difficulty: Easy \(\quad\)\begin{tabular}{l} 
Learning Objective: 02-06 Present the \\
data from a frequency distribution in a \\
histogram or frequency polygon.
\end{tabular}
68. Awart: 10.00 ponits

The chart below can be best described as


Frequency Polygon
\(\rightarrow\) Cumulative frequency polygon
Clustered bar chart
Stacked bar chart
O Histogram

\section*{References}

\author{
Multiple Choice Difficulty: Easy Learning Objective: 02-07 Construct and interpret a cumulative frequency distribution.
}

The Lake Ontario Credit Union selected a sample of 40 student chequing accounts. Below is a chart of their end-of-the-month balances. The bank considers any student with an ending balance of \(\$ 400\) or more a "preferred customer". Estimate the number of preferred customers in this sample.


\section*{Balances}

10
\(\rightarrow\) 15
30
○ 40

\section*{References}

Multiple Choice Difficulty: Hard
Learning Objective: 02-07 Construct and interpret a cumulative frequency
distribution.

The Lake Ontario Credit Union selected a sample of 40 student chequing accounts. Below is a chart of their end-of-the-month balances. The bank considers any student with an ending balance of \(\$ 400\) or more a "preferred customer". Estimate the percentage of preferred customers.


Balances
\(\rightarrow\) 〇 \(37.5 \%\)
○ \(60 \%\)
○ \(25 \%\)
○ \(75 \%\)

\section*{References}

What type of graph is this?
frequency polygon
\(\rightarrow\) multiple frequency polygonbar chartstacked bar chartcumulative frequency polygon

\section*{References}
\[
\begin{array}{ll}
\text { Multiple Choice Difficulty: Medium } \quad \begin{array}{l}
\text { Learning Objective: 02-06 Present the } \\
\\
\\
\\
\\
\text { histogram or frequency polygon. }
\end{array}
\end{array}
\]

In a simple Frequency Polygon, where is time plotted?
\(\rightarrow\) On the \(X\)-axis
On the \(Y\)-axis
On either axis.
Never plotted

References

Multiple Choice Difficulty: Easy

> Learning Objective: 02-06 Present the data from a frequency distribution in a histogram or frequency polygon.

\section*{Award: 10.00 points}

The grades on a statistics exam for a sample of students are as follows:
\begin{tabular}{ll} 
Stem & Leaf \\
3 & 68 \\
4 & 1278 \\
5 & 156789 \\
6 & 122457888 \\
7 & 1156799 \\
8 & 1246 \\
9 & 14
\end{tabular}

If \(A+=90 \%-100 \%\)
A \(=80 \%-89 \%\)
B+ = 75\%-79\%
B = 70\%-74\%
C+ = 65\%-69\%
C = 60\%-64\%
D+ = 55\%-59\%
D=50\%-54\%
\(\mathrm{F}=0-49 \%\)
What is the most common letter grade earned?A (80\%-89\%)B (70\%-74\%)C (60\%-64\%)D (50\%-54\%)
\(\rightarrow\) ○ \(\mathrm{F}(0-49 \%)\)

\section*{References}

The grades on a statistics exam for a sample of students are as follows:
Stem
3
4
5
6
7
8
9
If \(A=80 \%-100 \%\)
\(B=70 \%-79 \%\)
\(C=60 \%-69 \%\)
\(D=50 \%-59 \%\)
\(\mathrm{~F}=0-49 \%\)

What is the most common letter grade earned?

A (80\%-100\%)
B(70\%-79\%)
\(\rightarrow\) C (60\%-69\%)
D (50\%-59\%)
F (0-49\%)

References

Multiple Choice Difficulty: Medium Learning Objective: 02-08 Create and interpret a stem-and-leaf display.

The grades on a statistics exam for a sample of students are as follows:
\begin{tabular}{ll} 
Stem & Leaf \\
4 & 014 \\
5 & 08 \\
6 & 88999 \\
7 & 68 \\
8 & 0011136 \\
9 & 2
\end{tabular}
```

If A + = 90%-100%
A = 80%-89%
B+=75%-79%
B=70%-74%
C+ = 65%-69%
C = 60%-64%
D+ = 55%-59%
D= 50%-54%
F=0-49%

```

What is the most common letter grade earned?
\(\rightarrow \bigcirc \mathrm{A}(80 \%-89 \%)\)
- \(\mathrm{B}(70 \%-74 \%)\)

○ (60\%-64\%)
○ ( \(50 \%-54 \%)\)
○ \(\mathrm{F}(0-49 \%)\)

\section*{References}
76. Award: 10.00 points

Which is the best (most informative and useful) graphical display of the Average Weekly Earnings Health Care in Canada over the years 2008 to 2012?
\(\bigcirc\)


O


O



\section*{References}
```

Multiple Choice Learning Objective:
02-03 Present a set
of data using a pie
chart.

```
Difficulty: Learning Objective:
Medium 02-06 Present the
    data from a
    frequency
    distribution in a
    histogram or
    frequency polygon.

Which is the best (most informative and useful) graphical display of the Average Weekly Earnings Health Care in Canada over the years 2008 to 2012?

\(\bigcirc\)
Canada:
Average Weekly Earnings Health Care

\begin{tabular}{|l|l|l|l|}
\hline 2008 & 2009 & 2010 & 2011 \\
\hline
\end{tabular}
\(\bigcirc\)


Canada:
Average Weekly Earnings Health Care


\section*{References}
\[
\begin{array}{ll}
\text { Multiple Choice } & \text { Learning Objective: } \\
& \text { 02-03 Present a set } \\
& \text { of data using a pie } \\
\text { chart. }
\end{array}
\]
\begin{tabular}{ll} 
Difficulty: & Learning Objective: \\
Medium & O2-06 Present the \\
& data from a \\
frequency \\
& \begin{tabular}{l} 
distribution in a \\
histogram or \\
frequency polygon.
\end{tabular}
\end{tabular}
(i) For a stem-and-leaf display, the leaf for the value 98 is 9.
(ii) There is some loss of information when raw data is tallied into a stem-and-leaf display.
(iii) A cumulative frequency distribution is used when we want to determine how many observations lie above or below certain values.

0
(i), (ii) and (iii) are all correct statements.(i) and, (ii) are correct statements but not (iii).(i) and, (iii) are correct statements but not (ii).(iii) is a correct statement but not (i) or (ii)(i), (ii) and (iii) are all false statements.

\section*{References}
```

Multiple Choice Learning Objective:
02-07 Construct and
interpret a
cumulative
frequency
distribution.

```
Difficulty: Learning Objective:
Medium 02-08 Create and
    interpret a stem-and-
    leaf display.
79. Award: 10.00 points

The grades on a statistics exam for a sample of students are as follows:
\begin{tabular}{ll} 
Stem & Leaf \\
3 & 68 \\
4 & 1278 \\
5 & 156789 \\
6 & 1224578889 \\
7 & 1156799 \\
8 & 1246 \\
9 & 14
\end{tabular}

How many students wrote this test?

36
\(\rightarrow\) 〇 35
38
7
O 43

References

The grades on a statistics exam for a sample of students are as follows:
\begin{tabular}{|ll|}
\hline Stem & Leaf \\
3 & 68 \\
4 & 1278 \\
5 & 156789 \\
6 & 1224578889 \\
7 & 1156799 \\
8 & 1246 \\
9 & 14 \\
\hline
\end{tabular}

If A + = 90\%-100\%
A = 80\%-89\%
B+ = 75\%-79\%
B \(=70 \%-74 \%\)
C+ = 65\%-69\%
C \(=60 \%-64 \%\)
D = 55\%-59\%
F = 0\%-54\%
How many student earned a letter grade of C?

○ 1
3
\(\rightarrow\) 〇 4
O
10

References
Multiple Choice Difficulty: Medium Learning Objective: 02-08 Create and interpret a stem-and-leaf display.

A row of a stem-and-leaf chart appears as follows: 31013579 . Assume that the data is rounded to the nearest unit.

The frequency of the class is seven.
The minimum value in the class is 0 .
\(\rightarrow\) The maximum value in the class could be 39.
The class interval is 5 .

\section*{References}

Multiple Choice Difficulty: Easy Learning Objective: 02-08 Create and interpret a stem-and-leaf display.

\section*{82. Award: 10.00 points}
(i). The stem in a stem-and-leaf display is the leading digit
(ii) There is no loss of information when raw data is tallied into a stem-and-leaf display.
(iii). For a stem-and-leaf display, the leaf for the value 98 is 9
(i), (ii) and (iii) are all correct statements.(i) and, (ii) are correct statements but not (iii).(i) and, (iii) are correct statements but not (ii).(ii) and (iii) are correct statements but not (i).(i), (ii) and (iii) are all false statements.

\section*{References}

Multiple Choice Difficulty: Medium Learning Objective: 02-08 Create and interpret a stem-and-leaf display.
83. Award: 10.00 points

Given the following stem and leaf plot, determine the smallest value in the data set.

Frequency
2
Stem Leaf
199

3
2677

9

7
12
9
0
\(\begin{array}{lll}2 & 8 & 17\end{array}\)
45
○
\(\rightarrow\) 〇 19
○ 199
○ 45
\(\bigcirc 2\)

References
84. Award: 10.00 points

Given the following stem and leaf plot, determine the largest value in the data set.
\begin{tabular}{|c|c|c|}
\hline Frequency & Stem & Leaf \\
\hline 2 & 1 & 99 \\
\hline 3 & 2 & 677 \\
\hline 9 & 3 & 0222257899 \\
\hline 7 & 4 & 0667788 \\
\hline 12 & 5 & 223444556788 \\
\hline 9 & 6 & 000011357 \\
\hline 0 & 7 & \\
\hline \(\underline{2}\) & 8 & 17 \\
\hline 45 & & \\
\hline \(\rightarrow\) 〇 87 & & \\
\hline \(\bigcirc 819\) & & \\
\hline \(\bigcirc 28\) & & \\
\hline \(\bigcirc 17\) & & \\
\hline \(\bigcirc 817\) & & \\
\hline
\end{tabular}

References

The following represent the ages of students in a class:
19, 23, 21, 19, 19, 20, 22, 31, 21, 20
If a stem and leaf plot were to be developed from this, how many stems would there be?

○ 1
○ 2
\(\rightarrow\) 〇 3
○ 4
○ 10

\section*{References}

Multiple Choice Difficulty: Easy Learning Objective: 02-08 Create and interpret a stem-and-leaf display.
86. Awarc: 10.00 ponits

The following represent the ages of students in a class:
19, 23, 21, 19, 19, 20, 22, 31, 21, 20
If a stem and leaf plot were to be developed from this, how many leaves would there be off the second stem?

○ 11
\(\bigcirc 2\)
○ 3
○ 4
\(\rightarrow \bigcirc 6\)

\section*{References}

Multiple Choice Difficulty: Medium Learning Objective: 02-08 Create and interpret a stem-and-leaf display.

Consider the following stem and leaf plot:
\(0 \quad 033578\)
1146
2222
389
40

Suppose that you decided to develop a frequency distribution from this plot. What would be the lower limit of the first class?
\(\rightarrow \bigcirc 0\)
○ 10
○ 11
\(\bigcirc 1\)
○

\section*{References}

Multiple Choice Difficulty: Easy
Learning Objective: 02-08 Create and interpret a stem-and-leaf display.

\section*{88. Award: 10.00 points}

In constructing a frequency polygon, the class frequencies are scaled on the \(\qquad\) axis.X-axis\(Y\)-axis
Z-axis

\section*{References}

A useful chart or graph to use for illustrating relative frequencies is the \(\qquad\) ?
bar chart
\(\rightarrow\) pie chart
clustered bar chart
multiple line polygon

\section*{References}

Multiple Choice Difficulty: Easy Learning Objective: 02-02 Organize data into a bar chart.

\section*{90. \\ Award: 10.00 points}
(i) A table showing the number of observations that have been grouped into each of several classes is called a frequency distribution.
(ii) When classes in a frequency table are constructed so that data will fit into only one category, it is called a relative class frequency.
(iii) The suggested class interval based on number of observations given the data ranges from 100 to 200 with 50 observations is 50 .(i), (ii) and (iii) are all correct statements.(i), (ii) and (iii) are all false statements.(i) and (iii) are correct statements but not (ii).
\(\rightarrow 0\)
(i) is a correct statement but not (ii) or (iii).

\section*{References}

Multiple Choice Difficulty: Hard
(i) A table showing the number of observations that have been grouped into each of several classes is called a frequency distribution.
(ii) When classes in a frequency table are constructed so that data will fit into only one category, it is called mutually exclusive.
(iii) The suggested class interval based on number of observations given the data ranges from 100 to 200 with 50 observations is 20(i), (ii) and (iii) are all correct statements.(i), (ii) and (iii) are all false statements.(i) and, (iii) are correct statements but not (ii).(ii) and (iii) are correct statements but not (i).

\section*{References}
Multiple Choice Difficulty: Hard \begin{tabular}{l} 
Learning Objective: 02-04 Create a \\
frequency distribution for a data set.
\end{tabular}

\section*{92. Award: 10.00 points}
(i) A table showing the number of observations that have been grouped into each of several classes is called a frequency distribution.
(ii) When classes in a frequency table are constructed so that data will fit into only one category, it is called mutually exclusive.
(iii) The best means to display data that is based on a trend over a period of time is the polygon.(i), (ii) and (iii) are all correct statements.(i), (ii) and (iii) are all false statements.(i) and, (iii) are correct statements but not (ii).(ii) and (iii) are correct statements but not (i).

\section*{References}
(i) If you are constructing a stem-and-leaf display, the " 20 " in 20.5 would be the stem.
(ii) An advantage of a stem-and-leaf chart over a histogram is that the identity of each observation is not lost, and that it presents a picture of the distribution.
(iii) An advantage of a stem-and-leaf chart over a histogram is that it presents a picture of the distribution.
\(\rightarrow\) (i), (ii) and (iii) are all correct statements.
(i), (ii) and (iii) are all false statements.(i) and, (iii) are correct statements but not (ii).(ii) and (iii) are correct statements but not (i).

\section*{References}

\section*{Multiple Choice Difficulty: Hard Learning Objective: 02-08 Create and interpret a stem-and-leaf display.}

\section*{94. Award: 10.00 points}
(i) If you are constructing a stem-and-leaf display, the " 20 " in 20.5 would be the stem.
(ii) An advantage of a stem-and-leaf chart over a histogram is that the identity of each observation is not lost, and that it presents a picture of the distribution.
(iii) If you are constructing a stem-and-leaf display, the " 20 " in 20.5 would be the leaf.(i), (ii) and (iii) are all correct statements.(i), (ii) and (iii) are all false statements.(i) and, (ii) are correct statements but not (iii).(ii) and (iii) are correct statements but not (i).

\section*{References}

Multiple Choice
Difficulty: Hard
Learning Objective: 02-08 Create and interpret a stem-and-leaf display.
(i) If you are constructing a stem-and-leaf display, the " 20 " in 20.5 would be the stem.
(ii) An advantage of a stem-and-leaf chart over a histogram is that the identity of each observation is not lost, and that it presents a picture of the distribution.
(iii) If you are constructing a stem-and-leaf display, the " 2 " in 20.5 would be the leaf.
(i), (ii) and (iii) are all correct statements.
(i), (ii) and (iii) are all false statements.

(i) and (ii) are correct statements but not (iii).(ii) and (iii) are correct statements but not (i).

\section*{References}

\section*{Multiple Choice Difficulty: Hard Learning Objective: 02-08 Create and interpret a stem-and-leaf display.}

\section*{96. Award: 10.00 points}

The following ages (rounded to the nearest whole year) of employees at a large company that were grouped into a distribution with class limits:

20 up to 30
30 up to 40
40 up to 50
50 up to 60
60 up to 70
(i) The class limits for the class 50 up to 60 class are 50 and 58 .
(ii) The midpoint for the class 40 up to 50 is 45 .
(iii) The class interval is 9 .(i), (ii) and (iii) are all correct statements.(i), (ii) and (iii) are all false statements.(ii) is correct but not not (i) and (iii).(ii) and (iii) are correct statements but not (i).

\section*{References}

The following ages (rounded to the nearest whole year) of employees at a large company that were grouped into a distribution with class limits:

20 up to 30
30 up to 40
40 up to 50
50 up to 60
60 up to 70
(i) The class limits for the class 50 up to 60 class are 50 and 58 .
(ii) The midpoint for the class 40 up to 50 is 45 .
(iii) The class interval is 10 .(i), (ii) and (iii) are all correct statements.(i), (ii) and (iii) are all false statements.(i) and (ii) are correct statements but not (iii).
\(\rightarrow\) (ii) and (iii) are correct statements but not (i).

\section*{References}

Multiple Choice Difficulty: Hard
Learning Objective: 02-04 Create a
frequency distribution for a data set.

The following ages (rounded to the nearest whole year) of employees at a large company that were grouped into a distribution with class limits:

20 up to 30
30 up to 40
40 up to 50
50 up to 60
60 up to 70
(i) The class limits for the class 50 up to 60 class are 50 and60.
(ii) The midpoint for the class 40 up to 50 is 45 .
(iii) The class interval is 10.(i), (ii) and (iii) are all correct statements.
(i), (ii) and (iii) are all false statements.(i) and (ii) are correct statements but not (iii).(ii) and (iii) are correct statements but not (i).

\section*{References}

Multiple Choice Difficulty: Hard
Learning Objective: 02-04 Create a
frequency distribution for a data set.
99. Award: 10.00 points

The following ages (rounded to the nearest whole year) of employees at a large company that were grouped into a distribution with class limits:

20 up to 30
30 up to 40
40 up to 50
50 up to 60
60 up to 70
(i) The class limits for the class 50 up to 60 class are 50 and 58 .
(ii) The midpoint for the class 40 up to 50 is 40 .
(iii) The class interval is 9 .(i), (ii) and (iii) are all correct statements.
\(\rightarrow 0\)
(i), (ii) and (iii) are all false statements.(i) and (iii) are correct statements but not (ii).(ii) and (iii) are correct statements but not (i).

\section*{References}
Multiple Choice Difficulty: Hard \begin{tabular}{l} 
Learning Objective: 02-04 Create a \\
frequency distribution for a data set.
\end{tabular}
100. Award: 10.00 points

A student was studying the political party preferences of a university's student population. The survey instrument asked students to identify themselves as a Conservative or NDP. This question is flawed because:Students generally don't know their political preferences.The categories are generally mutually exclusive.The categories are not exhaustive.Political preference is a continuous variable.

\section*{References}
```

Multiple Choice
Difficulty: Medium
Learning Objective: 02-01 Create a frequency table for a set of data.

```
```

