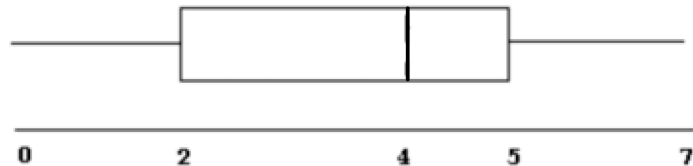


Elementary Statistics

*When finished submit your answers by following the appropriate link on **my Assignments page**.
If you feel the answer is none of the choices given, submit no answer to the question.*

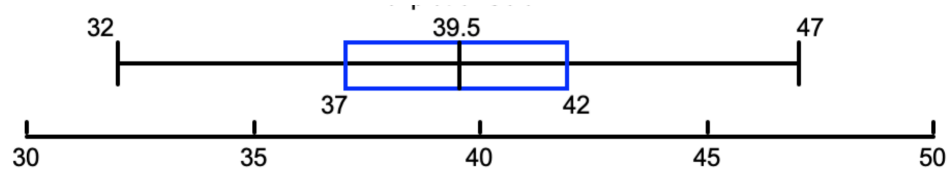
1. What is your test ID ? **T1231A**

2 Interpret the boxplot



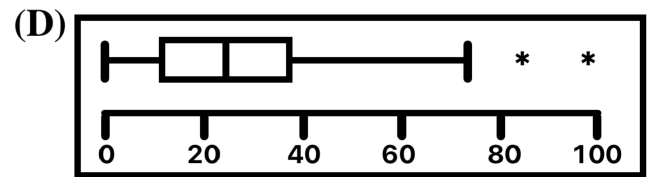
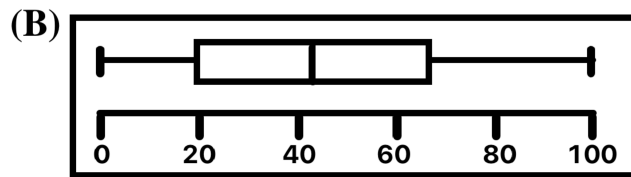
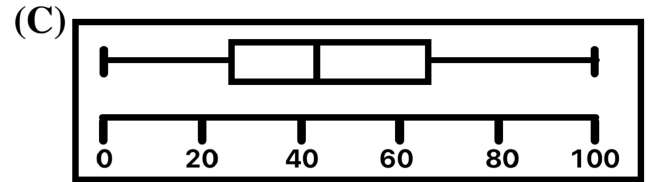
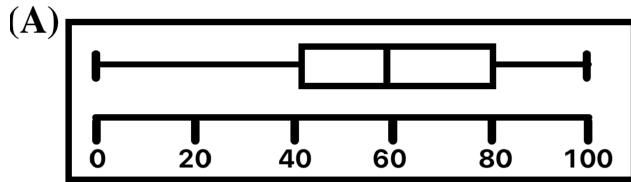
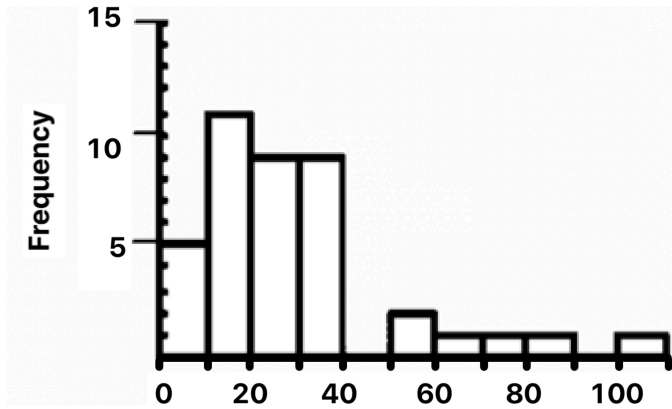
- (A) 75% of the data are at most 5.
 - (B) There is about the same amount of data from 2 - 5 as there is from 5 - 7.
 - (C) There are no data values of 3.
 - (D) 50% of the data are 4.
3. The data is {1, 6, 6, 11, 18, 18}. How many values are more than two (2) standard deviations from the mean?
- (A) 0
 - (B) 1
 - (C) 2
 - (D) 3
4. The data is {1, 6, 6, 11, 18, 18}. Find the inter-quartile range.
- (A) 15
 - (B) 8
 - (C) 12
 - (D) 11.5
5. The data is {1, 6, 6, 11, 18, 18}. If we constructed a stem and leaf plot , what would be the "leaf" for the "stem" **1** .
6. The data is {1, 6, 6, 11, 18, 18}. Can the data be considered normally distributed. Why?
7. Given National Counselor Examination (NCE) scores are approximately normally distributed with a mean of 50 and standard deviation of 21, the proportion of people with NCEs below 29 is:
- (A) 50%
 - (B) 84%
 - (C) 16%
 - (D) 34%

- 12 The box-and-whisker plot for the grouped data table in the previous problem is given below. Which of the following statements is true?



- (A) 32 is an outlier.
(B) The IQR is 25.
(C) One half of all the data are between 32 and 37 .
(D) About 25% of all the data are greater than 42 .
13. Data outliers can be easily identified by using which of the following?
- (A) relative frequency histogram (C) QQ plot
(B) modified box plot (D) frequency histogram
14. Green sea turtles have normally distributed weights, measured in kilograms, with a mean of 130 and a variance of 40.0. A particular green sea turtle's weight has a z -score of +2.1. What is the weight of this green sea turtle? Round to the nearest whole number.
- (A) 46 kg (B) 149 kg (C) 214 kg (D) 252 kg
15. We have still have not technically done any statistical analysis, only general data analysis. At what point could we say we have really done statistical analysis?
16. From 1984 to 1995, the winning scores for a golf tournament were 277, 280, 282, 284, and 270. Find the mean absolute deviation (MAD) for this data.
17. Which of the following is generally **not** affected by outliers?
- (A) mean (C) inter-quartile range
(B) standard deviation (D) range

18. Which box plot was made from the histogram below?



19. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2. Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean **and** the standard deviation of the new data set.
20. Three students take equivalent stress tests. Which is the highest relative score (meaning which has the largest z -score value)?
- (A) A score of 144 on a test with a mean of 128 and a standard deviation of 30.
- (B) A score of 90 on a test with a mean of 86 and a standard deviation of 20.
- (C) A score of 20 on a test with a mean of 15 and a standard deviation of 5.
21. Suppose that 10 measurements were taken and the mean was calculated to be 5. Assume next that one of the data items was 4. This was assumed to be an outlier as was discarded. What would be the mean of the remaining 9 numbers?

Elementary Statistics

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1. What is your test ID ? **T1349B**

2. The data is {1, 6, 6, 11, 18, 18}. Find the inter-quartile range.

(A) 15 (B) 8 (C) 12 (D) 11.5

3. Why must we square the deviations from the mean in calculating the standard deviation?

(A) to avoid a zero value in the sum (C) to adjust the senseless measurement labeling
(B) to compensate for outliers (D) to remove the degree of bias

4. The data is {1, 6, 6, 11, 18, 18}. How many values are more than two (2) standard deviations from the mean?

(A) 0 (C) 2
(B) 1 (D) 3

5. Three students take equivalent stress tests. Which is the highest relative score (meaning which has the largest z -score value)?

(A) A score of 144 on a test with a mean of 128 and a standard deviation of 30.
(B) A score of 90 on a test with a mean of 86 and a standard deviation of 20.
(C) A score of 20 on a test with a mean of 15 and a standard deviation of 5.

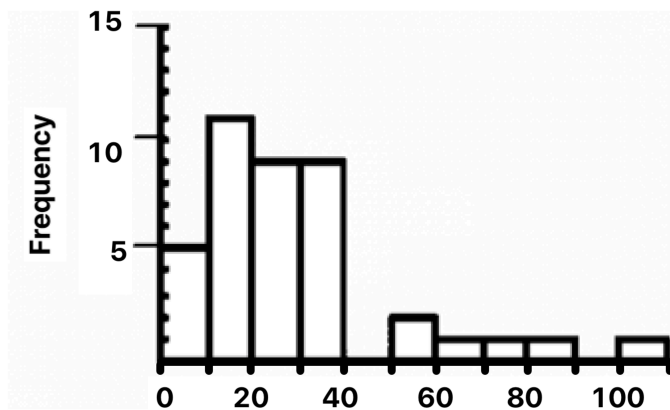
6. Which of the following is generally not affected by outliers?

(A) mean (C) inter-quartile range
(B) standard deviation (D) range

7. The *NLN* Test used by the National League of Nursing standardizes with a mean of 100 and a standard deviation of 20. What would someone's *NLN* score be if their raw score was 80 from a group with a raw score mean of 82 and standard deviation of 5?

(A) 77 (B) 84 (C) 106 (D) 92

8. The data is $\{1, 6, 6, 11, 18, 18\}$. Can the data be considered normally distributed. Why?
9. Suppose that 10 measurements were taken and the mean was calculated to be 5. Assume next that one of the data items was 4. This was assumed to be an outlier as was discarded. What would be the mean of the remaining 9 numbers?
10. From 1984 to 1995, the winning scores for a golf tournament were 277, 280, 282, 284, and 270. Find the mean absolute deviation (MAD) for this data.
11. Green sea turtles have normally distributed weights, measured in kilograms, with a mean of 130 and a variance of 40.0. A particular green sea turtle's weight has a z -score of +2.1. What is the weight of this green sea turtle? Round to the nearest whole number.
- (A) 46 kg (B) 149 kg (C) 214 kg (D) 252 kg
12. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2. Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean and the standard deviation of the new data set.
13. Which box plot was made from the histogram below?



- (A)
- (B)
- (C)
- (D)

- In comparing the hexokinase method with the glucose oxidase method for measuring glucose it was found that the mean and standard deviation for the hexokinase method were 120 mg/dl and 4.8 mg/dl respectively. The mean and standard deviation for the glucose oxidase method was 100 mg/dl and 4.0 mg/dl. Graphical analysis, however, seemed to indicate that there was not more variation present in the hexokinase method.

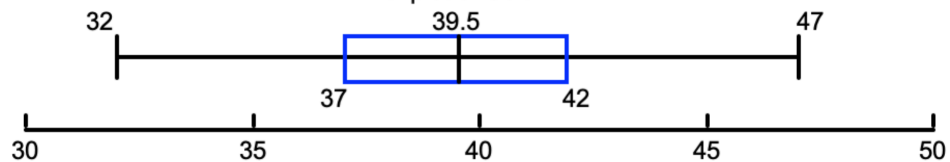
14. Which evaluation method really exhibited the greatest variability ?

- (A) Hexokinase method (C) Neither
 (B) Glucose oxidase method (D) Cannot be determined

15. We have been analyzing ungrouped data in our class. To analyze grouped data we must "ungroup" the data. Calculate the mean and standard deviation for the grouped data set below.

Start	End	Frequency
30	34	1
35	39	2
40	44	2
45	49	1

16. The box-and-whisker plot for the grouped data table in the previous problem is given below. Which of the following statements is true?



- (A) 32 is an outlier.
 (B) The IQR is 25.
 (C) One half of all the data are between 32 and 37 .
 (D) About 25% of all the data are greater than 42 .

17. Data outliers can be easily identified by using which of the following?

- (A) relative frequency histogram (C) QQ plot
 (B) modified box plot (D) frequency histogram

MTH 150 Test 1
Fall 2025

Elementary Statistics

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1. What is your test ID ? **T1316C**

2. Why must we square the deviations from the mean in calculating the standard deviation?
 - (A) to avoid a zero value in the sum
 - (B) to compensate for outliers
 - (C) to adjust the senseless measurement labeling
 - (D) to remove the degree of bias

3. Data outliers can be easily identified by using which of the following?
 - (A) relative frequency histogram
 - (B) modified box plot
 - (C) QQ plot
 - (D) frequency histogram

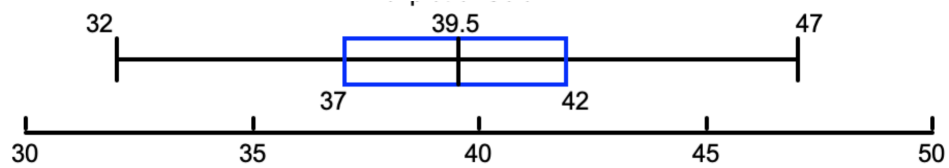
4. From 1984 to 1995, the winning scores for a golf tournament were 277, 280, 282, 284, and 270. Find the mean absolute deviation (MAD) for this data.

5. The data is {1, 6, 6, 11, 18, 18}. If we constructed a stem and leaf plot , what would be the "leaf" for the "stem" 1 .

6. The *NLN* Test used by the National League of Nursing standardizes with a mean of 100 and a standard deviation of 20. What would someone's *NLN* score be if their raw score was 80 from a group with a raw score mean of 82 and standard deviation of 5?
 - (A) 77
 - (B) 84
 - (C) 106
 - (D) 92

7. Three students take equivalent stress tests. Which is the highest relative score (meaning which has the largest z -score value)?
 - (A) A score of 144 on a test with a mean of 128 and a standard deviation of 30.
 - (B) A score of 90 on a test with a mean of 86 and a standard deviation of 20.
 - (C) A score of 20 on a test with a mean of 15 and a standard deviation of 5.

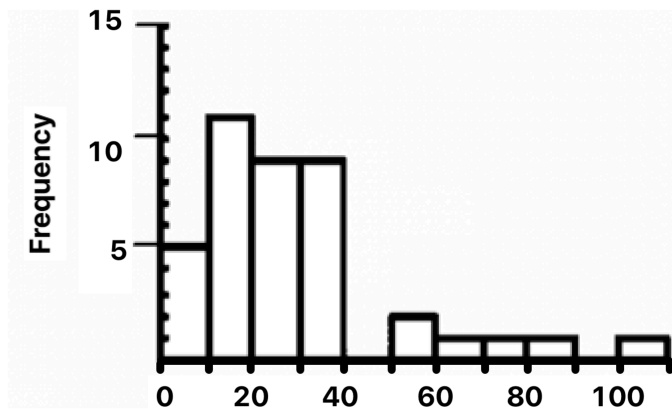
8. The box-and-whisker plot for the grouped data table in the previous problem is given below. Which of the following statements is true?



- (A) 32 is an outlier.
 (B) The IQR is 25.
 (C) One half of all the data are between 32 and 37 .
 (D) About 25% of all the data are greater than 42 .
9. Given National Counselor Examination (NCE) scores are approximately normally distributed with a mean of 50 and standard deviation of 21, the proportion of people with NCEs below 29 is:

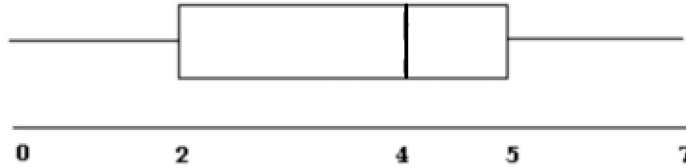
- (A) 50% (B) 84% (C) 16% (D) 34%

10. Which box plot was made from the histogram below?



- (A) (B) (C) (D)

11. Interpret the boxplot



- (A) 75% of the data are at most 5.
(B) There is about the same amount of data from 2 - 5 as there is from 5 - 7.
(C) There are no data values of 3.
(D) 50% of the data are 4.

12. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2. Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean and the standard deviation of the new data set.

13. Green sea turtles have normally distributed weights, measured in kilograms, with a mean of 130 and a variance of 40.0. A particular green sea turtle's weight has a z-score of +2.1. What is the weight of this green sea turtle? Round to the nearest whole number.

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14. We have been analyzing ungrouped data in our class. To analyze grouped data we must "ungroup" the data. Calculate the mean and standard deviation for the grouped data set below.

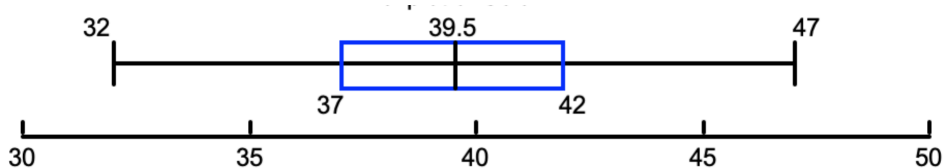
Start	End	Frequency
30	34	1
35	39	2
40	44	2
45	49	1

15. The data is {1, 6, 6, 11, 18, 18}. Find the inter-quartile range.

- (A) 15 (B) 8 (C) 12 (D) 11.5

16. The data is {1, 6, 6, 11, 18, 18}. Can the data be considered normally distributed. Why?

15. The box-and-whisker plot for the grouped data table in the previous problem is given below. Which of the following statements is true?



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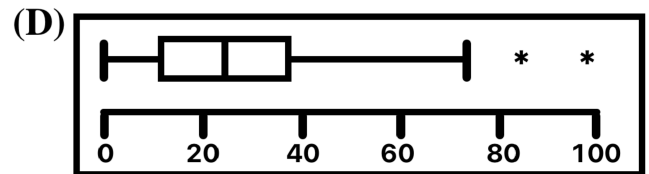
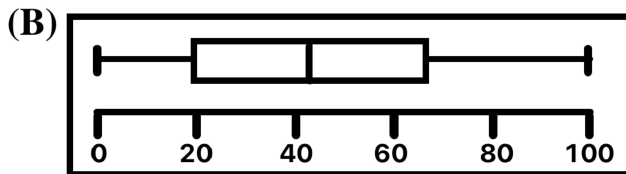
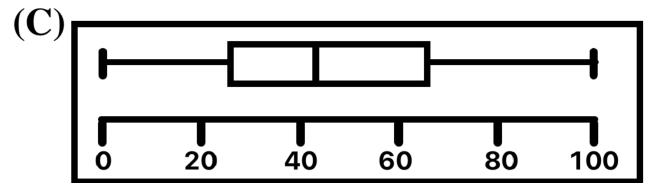
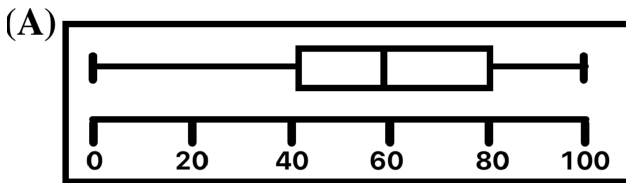
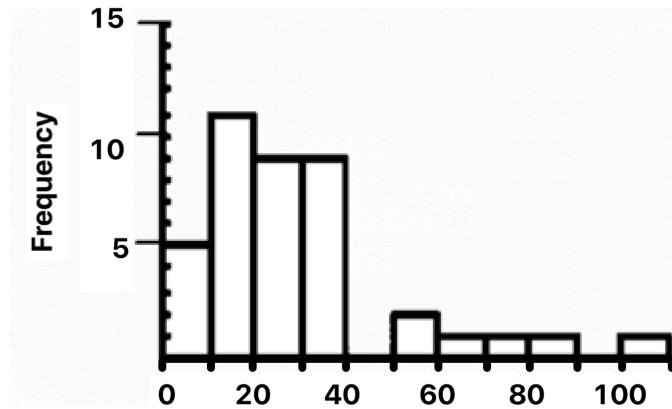
- (A) 77 (B) 84 (C) 106 (D) 92

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17. Which evaluation method really exhibited the greatest variability ?

- (A) Hexokinase method (C) Neither
(B) Glucose oxidase method (D) Cannot be determined

18. Which box plot was made from the histogram below?



19. From 1984 to 1995, the winning scores for a golf tournament were 277, 280, 282, 284, and 270. Find the mean absolute deviation (MAD) for this data.

20. The data is $\{1, 6, 6, 11, 18, 18\}$. If we constructed a stem and leaf plot, what would be the "leaf" for the "stem" 1.

21. Why must we square the deviations from the mean in calculating the standard deviation?

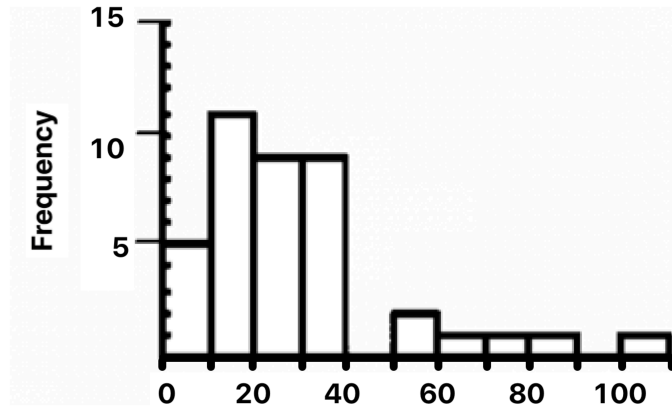
(A) to avoid a zero value in the sum

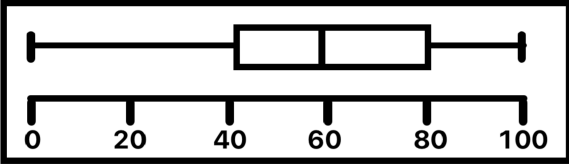
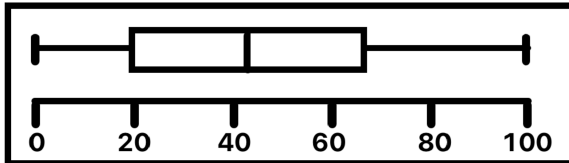
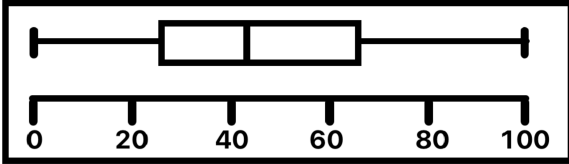
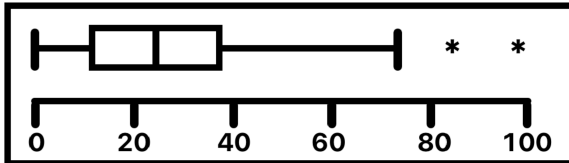
(C) to adjust the senseless measurement labeling

(B) to compensate for outliers

(D) to remove the degree of bias

8. Which box plot was made from the histogram below?



- (A) 
- (B) 
- (C) 
- (D) 

9. We have still have not technically done any statistical analysis, only general data analysis. At what point could we say we have really done statistical analysis?

10. Green sea turtles have normally distributed weights, measured in kilograms, with a mean of 130 and a variance of 40.0. A particular green sea turtle's weight has a z-score of +2.1. What is the weight of this green sea turtle? Round to the nearest whole number.

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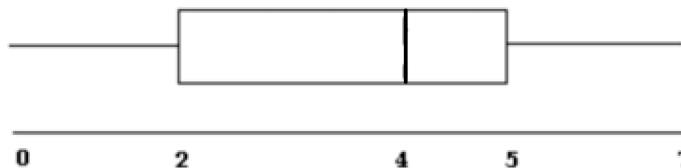
1. What is your test ID ? **T1350F**
2. Given National Counselor Examination (NCE) scores are approximately normally distributed with a mean of 50 and standard deviation of 21, the proportion of people with NCEs below 29 is:

(A) 50% (B) 84% (C) 16% (D) 34%
3. Which of the following is generally not affected by outliers?

(A) mean (C) inter-quartile range
(B) standard deviation (D) range
4. Suppose that 10 measurements were taken and the mean was calculated to be 5. Assume next that one of the data items was 4. This was assumed to be an outlier as was discarded. What would be the mean of the remaining 9 numbers?
5. We have been analyzing ungrouped data in our class. To analyze grouped data we must "ungroup" the data. Calculate the mean and standard deviation for the grouped data set below.

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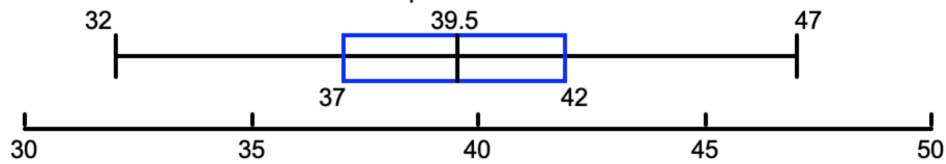
6. Interpret the boxplot



- (A) 75% of the data are at most 5.
- (B) There is about the same amount of data from 2 - 5 as there is from 5 - 7.
- (C) There are no data values of 3.
- (D) 50% of the data are 4.

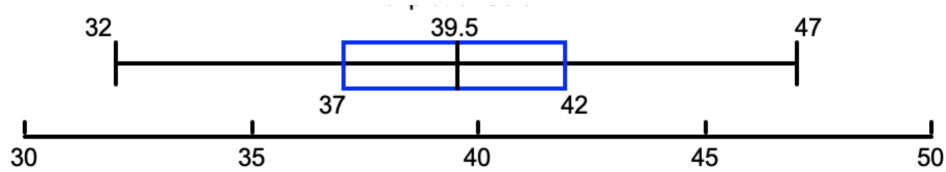
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10. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2. Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean and the standard deviation of the new data set.
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- (C) A score of 20 on a test with a mean of 15 and a standard deviation of 5.
- 12 Data outliers can be easily identified by using which of the following?
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18. The box-and-whisker plot for the grouped data table in the previous problem is given below. Which of the following statements is true?



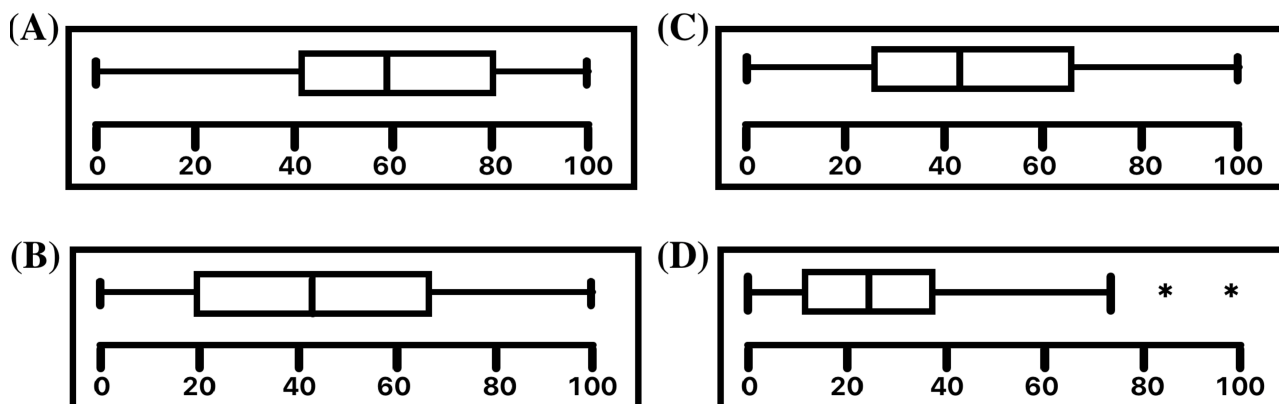
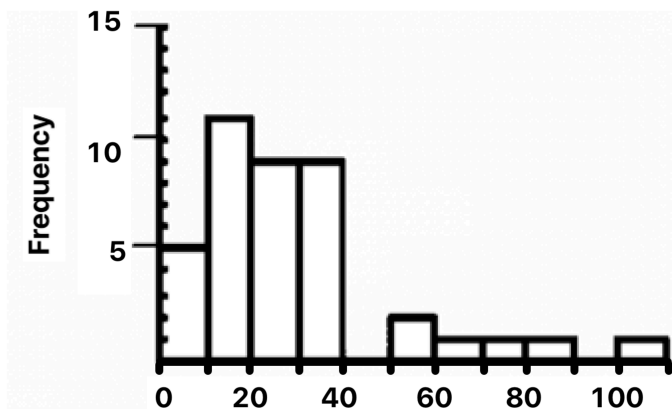
- (A) 32 is an outlier between 32 and 37 .
- (B) About 25% of all the data are greater than 42
- (C) The IQR is 25.
- (D) One half of all the data are
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18. Which box plot was made from the histogram below?



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(C) A score of 20 on a test with a mean of 15 and a standard deviation of 5.

21. Suppose that 10 measurements were taken and the mean was calculated to be 5. Assume next that one of the data items was 4. This was assumed to be an outlier as was discarded. What would be the mean of the remaining 9 numbers?

Elementary Statistics

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1. What is your test ID ? **T1250H**

2. The data is {1, 6, 6, 11, 18, 18}. Find the inter-quartile range.

(A) 15 (B) 8 (C) 12 (D) 11.5

3. Why must we square the deviations from the mean in calculating the standard deviation?

(A) to avoid a zero value in the sum (C) to adjust the senseless measurement labeling
(B) to compensate for outliers (D) to remove the degree of bias

4. The data is {1, 6, 6, 11, 18, 18}. How many values are more than two (2) standard deviations from the mean?

(A) 0 (C) 2
(B) 1 (D) 3

5. Three students take equivalent stress tests. Which is the highest relative score (meaning which has the largest z -score value)?

(A) A score of 144 on a test with a mean of 128 and a standard deviation of 30.
(B) A score of 90 on a test with a mean of 86 and a standard deviation of 20.
(C) A score of 20 on a test with a mean of 15 and a standard deviation of 5.

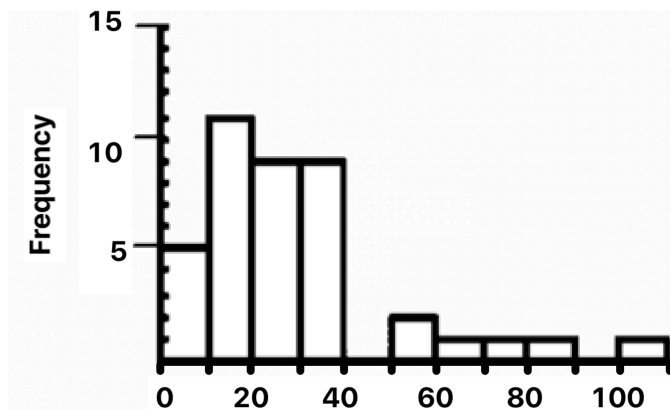
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(A) mean (C) inter-quartile range
(B) standard deviation (D) range

7. The *NLN* Test used by the National League of Nursing standardizes with a mean of 100 and a standard deviation of 20. What would someone's *NLN* score be if their raw score was 80 from a group with a raw score mean of 82 and standard deviation of 5?

(A) 77 (B) 84 (C) 106 (D) 92

8. The data is $\{1, 6, 6, 11, 18, 18\}$. Can the data be considered normally distributed. Why?
9. Suppose that 10 measurements were taken and the mean was calculated to be 5. Assume next that one of the data items was 4. This was assumed to be an outlier as was discarded. What would be the mean of the remaining 9 numbers?
10. From 1984 to 1995, the winning scores for a golf tournament were 277, 280, 282, 284, and 270. Find the mean absolute deviation (MAD) for this data.
11. Green sea turtles have normally distributed weights, measured in kilograms, with a mean of 130 and a variance of 40.0. A particular green sea turtle's weight has a z -score of +2.1. What is the weight of this green sea turtle? Round to the nearest whole number.
- (A) 46 kg (B) 149 kg (C) 214 kg (D) 252 kg
12. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2. Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean and the standard deviation of the new data set.
13. Which box plot was made from the histogram below?



- (A)
- (B)
- (C)
- (D)

Elementary Statistics

*When finished submit your answers by following the appropriate link on **my Assignments page**.
If you feel the answer is none of the choices given, submit no answer to the question.*

1. What is your test ID ? **T1303I**

2. Why must we square the deviations from the mean in calculating the standard deviation?
 - (A) to avoid a zero value in the sum
 - (B) to compensate for outliers
 - (C) to adjust the senseless measurement labeling
 - (D) to remove the degree of bias

3. Data outliers can be easily identified by using which of the following?
 - (A) relative frequency histogram
 - (B) modified box plot
 - (C) QQ plot
 - (D) frequency histogram

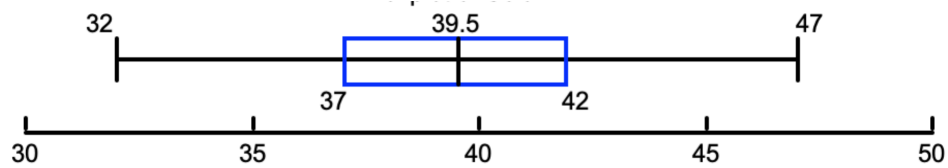
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5. The data is {1, 6, 6, 11, 18, 18}. If we constructed a stem and leaf plot , what would be the "leaf" for the "stem" 1 .

6. The *NLN* Test used by the National League of Nursing standardizes with a mean of 100 and a standard deviation of 20. What would someone's *NLN* score be if their raw score was 80 from a group with a raw score mean of 82 and standard deviation of 5?
 - (A) 77
 - (B) 84
 - (C) 106
 - (D) 92

7. Three students take equivalent stress tests. Which is the highest relative score (meaning which has the largest z -score value)?
 - (A) A score of 144 on a test with a mean of 128 and a standard deviation of 30.
 - (B) A score of 90 on a test with a mean of 86 and a standard deviation of 20.
 - (C) A score of 20 on a test with a mean of 15 and a standard deviation of 5.

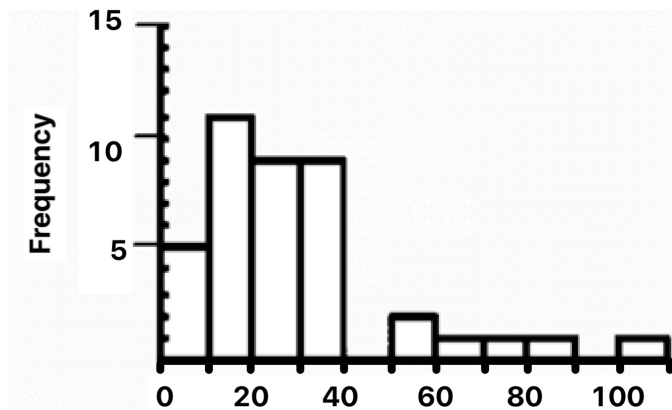
8. The box-and-whisker plot for the grouped data table in the previous problem is given below. Which of the following statements is true?



- (A) 32 is an outlier.
 (B) The IQR is 25.
 (C) One half of all the data are between 32 and 37 .
 (D) About 25% of all the data are greater than 42 .
9. Given National Counselor Examination (NCE) scores are approximately normally distributed with a mean of 50 and standard deviation of 21, the proportion of people with NCEs below 29 is:

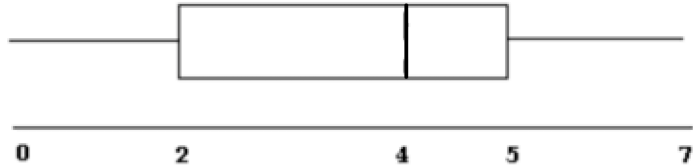
- (A) 50% (B) 84% (C) 16% (D) 34%

10. Which box plot was made from the histogram below?



- (A) (C)
- (B) (D)

11. Interpret the boxplot



- (A) 75% of the data are at most 5.
- (B) There is about the same amount of data from 2 - 5 as there is from 5 - 7.
- (C) There are no data values of 3.
- (D) 50% of the data are 4.

12. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2. Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean and the standard deviation of the new data set.

13. Green sea turtles have normally distributed weights, measured in kilograms, with a mean of 130 and a variance of 40.0. A particular green sea turtle's weight has a z-score of +2.1. What is the weight of this green sea turtle? Round to the nearest whole number.

- (A) 46 kg
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- (C) 214 kg
- (D) 252 kg

14. We have been analyzing ungrouped data in our class. To analyze grouped data we must "ungroup" the data. Calculate the mean and standard deviation for the grouped data set below.

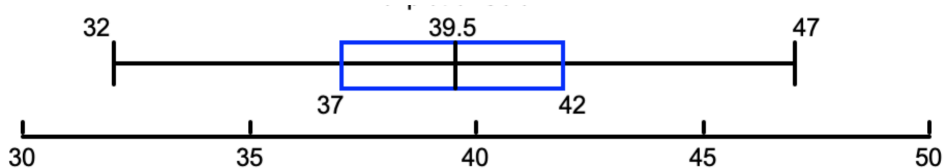
Start	End	Frequency
30	34	1
35	39	2
40	44	2
45	49	1

15. The data is {1, 6, 6, 11, 18, 18}. Find the inter-quartile range.

- (A) 15
- (B) 8
- (C) 12
- (D) 11.5

16. The data is {1, 6, 6, 11, 18, 18}. Can the data be considered normally distributed. Why?

15. The box-and-whisker plot for the grouped data table in the previous problem is given below. Which of the following statements is true?



- (A) 32 is an outlier.
(B) The IQR is 25.
(C) One half of all the data are between 32 and 37 .
(D) About 25% of all the data are greater than 42 .
16. The *NLN* Test used by the National League of Nursing standardizes with a mean of 100 and a standard deviation of 20. What would someone's *NLN* score be if their raw score was 80 from a group with a raw score mean of 82 and standard deviation of 5?

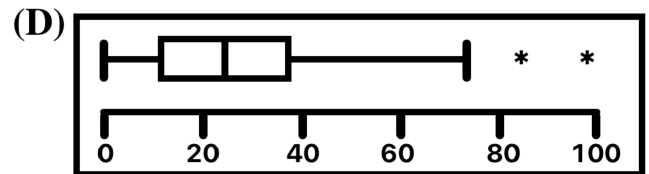
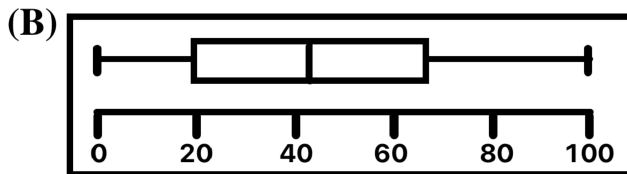
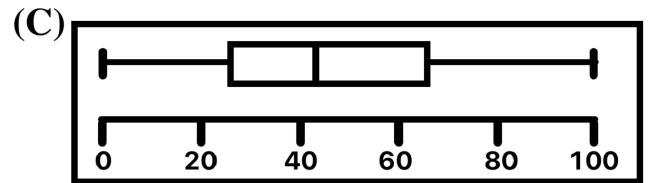
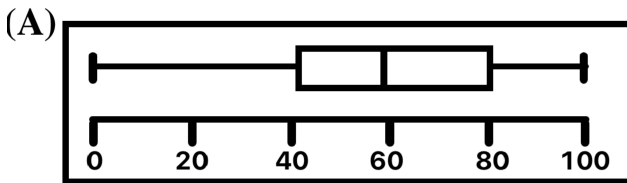
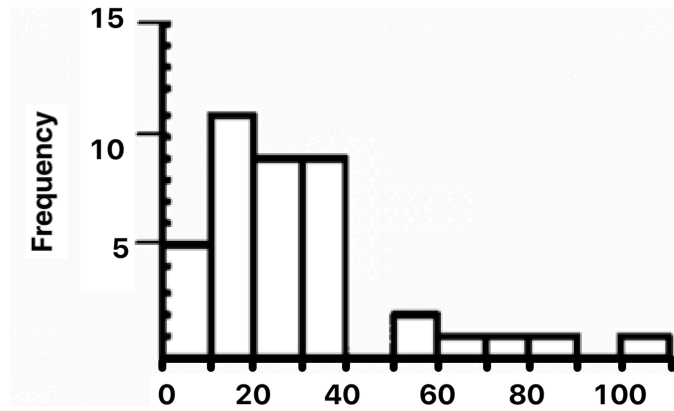
- (A) 77 (B) 84 (C) 106 (D) 92

- In comparing the hexokinase method with the glucose oxidase method for measuring glucose it was found that the mean and standard deviation for the hexokinase method were 120 mg/dl and 4.8 mg/dl respectively. The mean and standard deviation for the glucose oxidase method was 100 mg/dl and 4.0 mg/dl. Graphical analysis, however, seemed to indicate that there was not more variation present in the hexokinase method.

17. Which evaluation method really exhibited the greatest variability ?

- (A) Hexokinase method (C) Neither
(B) Glucose oxidase method (D) Cannot be determined

18. Which box plot was made from the histogram below?



19. From 1984 to 1995, the winning scores for a golf tournament were 277, 280, 282, 284, and 270. Find the mean absolute deviation (MAD) for this data.

20. The data is $\{1, 6, 6, 11, 18, 18\}$. If we constructed a stem and leaf plot, what would be the "leaf" for the "stem" 1.

21. Why must we square the deviations from the mean in calculating the standard deviation?

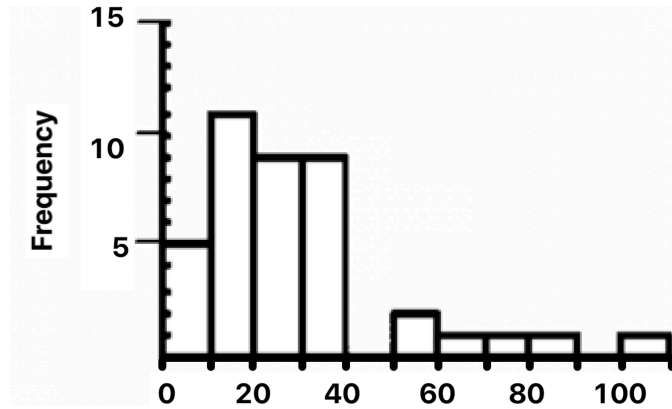
(A) to avoid a zero value in the sum

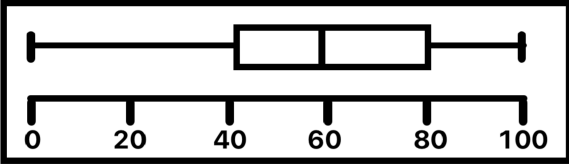
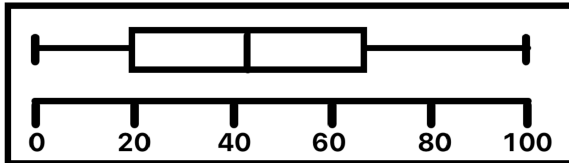
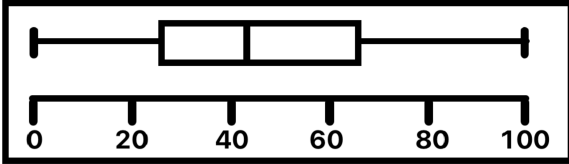
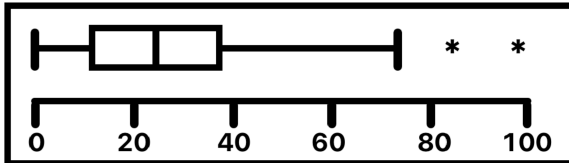
(C) to adjust the senseless measurement labeling

(B) to compensate for outliers

(D) to remove the degree of bias

8. Which box plot was made from the histogram below?



- (A) 
- (B) 
- (C) 
- (D) 

9. We have still have not technically done any statistical analysis, only general data analysis. At what point could we say we have really done statistical analysis?

10. Green sea turtles have normally distributed weights, measured in kilograms, with a mean of 130 and a variance of 40.0. A particular green sea turtle's weight has a z-score of +2.1. What is the weight of this green sea turtle? Round to the nearest whole number.

- (A) 46 kg (B) 149 kg (C) 214 kg (D) 252 kg

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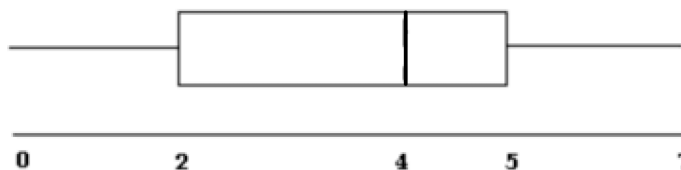
1. What is your test ID ? **T1293L**
2. Given National Counselor Examination (NCE) scores are approximately normally distributed with a mean of 50 and standard deviation of 21, the proportion of people with NCEs below 29 is:

(A) 50% (B) 84% (C) 16% (D) 34%
3. Which of the following is generally not affected by outliers?

(A) mean (C) inter-quartile range
(B) standard deviation (D) range
4. Suppose that 10 measurements were taken and the mean was calculated to be 5. Assume next that one of the data items was 4. This was assumed to be an outlier as was discarded. What would be the mean of the remaining 9 numbers?
5. We have been analyzing ungrouped data in our class. To analyze grouped data we must "ungroup" the data. Calculate the mean and standard deviation for the grouped data set below.

Start	End	Frequency
30	34	1
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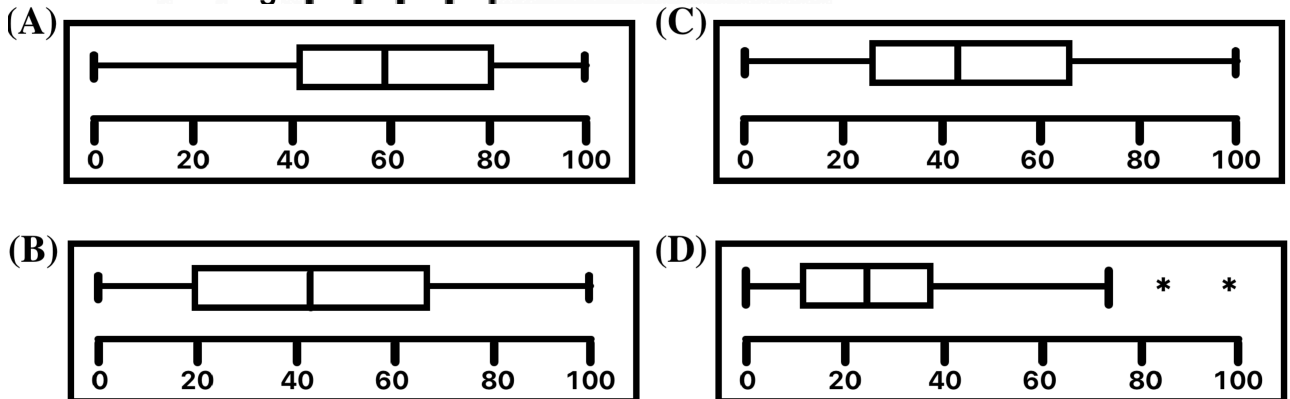
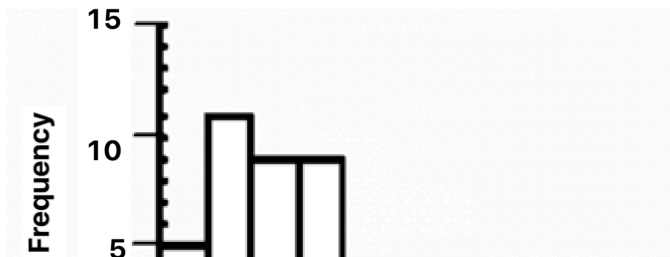
6. Interpret the boxplot



- (A) 75% of the data are at most 5.
- (B) There is about the same amount of data from 2 - 5 as there is from 5 - 7.
- (C) There are no data values of 3.
- (D) 50% of the data are 4.

7. We have still have not technically done any statistical analysis, only general data analysis. At what point could we say we have really done statistical analysis?
8. The data is $\{1, 6, 6, 11, 18, 18\}$. If we constructed a stem and leaf plot , what would be the "leaf" for the "stem" **1** .
9. Why must we square the deviations from the mean in calculating the standard deviation?
- (A) to avoid a zero value in the sum (C) to adjust the senseless measurement labeling
- (B) to compensate for outliers (D) to remove the degree of bias
10. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2. Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean and the standard deviation of the new data set.
11. Three students take equivalent stress tests. Which is the highest relative score (meaning which has the largest z -score value)?
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- (B) A score of 90 on a test with a mean of 86 and a standard deviation of 20.
- (C) A score of 20 on a test with a mean of 15 and a standard deviation of 5.
- 12 Data outliers can be easily identified by using which of the following?
- (A) relative frequency histogram (C) QQ plot
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13. The data is $\{1, 6, 6, 11, 18, 18\}$. Can the data be considered normally distributed. Why?

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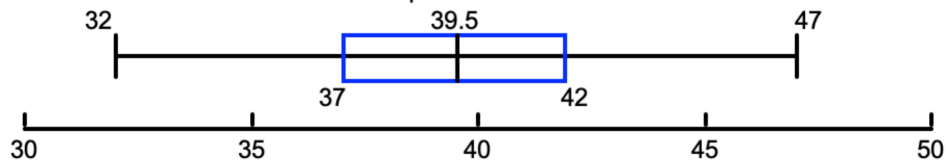
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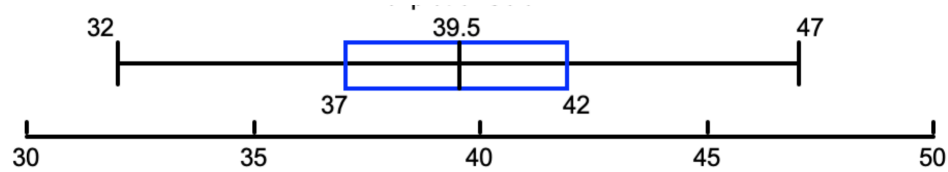
- (A) 0 (C) 2
 (B) 1 (D) 3

18. The box-and-whisker plot for the grouped data table in the previous problem is given below. Which of the following statements is true?



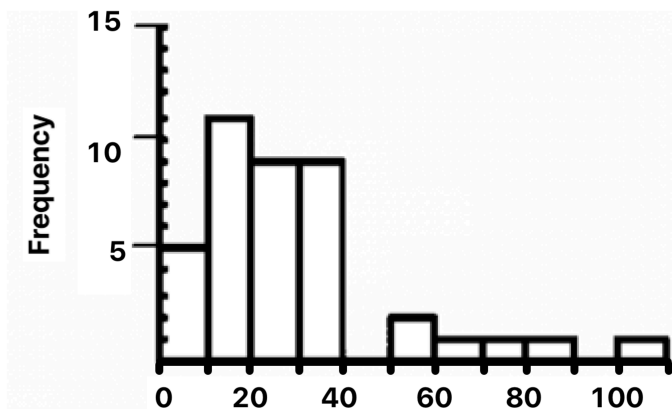
- (A) 32 is an outlier between 32 and 37 .
(B) About 25% of all the data are greater than 42
(C) The IQR is 25.
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21. From 1984 to 1995, the winning scores for a golf tournament were 277, 280, 282, 284, and 270. Find the mean absolute deviation (MAD) for this data.

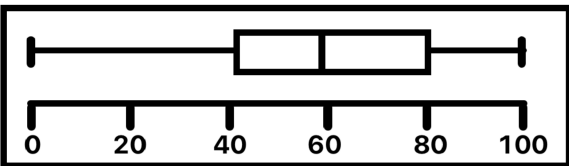
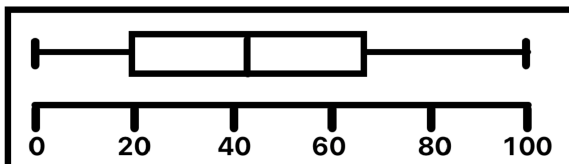
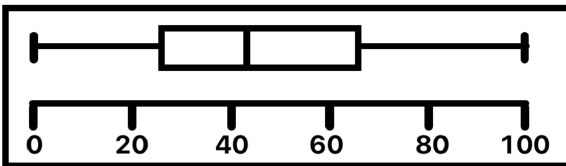
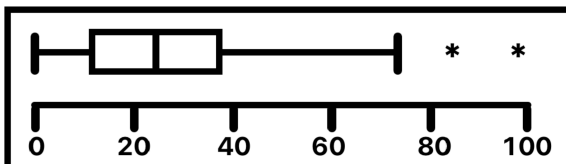
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17. Which of the following is generally **not** affected by outliers?
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18. Which box plot was made from the histogram below?



- (A) 
- (B) 
- (C) 
- (D) 

19. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2. Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean **and** the standard deviation of the new data set.

20. Three students take equivalent stress tests. Which is the highest relative score (meaning which has the largest z -score value)?

(A) A score of 144 on a test with a mean of 128 and a standard deviation of 30.

(B) A score of 90 on a test with a mean of 86 and a standard deviation of 20.

(C) A score of 20 on a test with a mean of 15 and a standard deviation of 5.

21. Suppose that 10 measurements were taken and the mean was calculated to be 5.

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Elementary Statistics

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1. What is your test ID ? **T1460N**

2. The data is {1, 6, 6, 11, 18, 18}. Find the inter-quartile range.

(A) 15 (B) 8 (C) 12 (D) 11.5

3. Why must we square the deviations from the mean in calculating the standard deviation?

(A) to avoid a zero value in the sum (C) to adjust the senseless measurement labeling
(B) to compensate for outliers (D) to remove the degree of bias

4. The data is {1, 6, 6, 11, 18, 18}. How many values are more than two (2) standard deviations from the mean?

(A) 0 (C) 2
(B) 1 (D) 3

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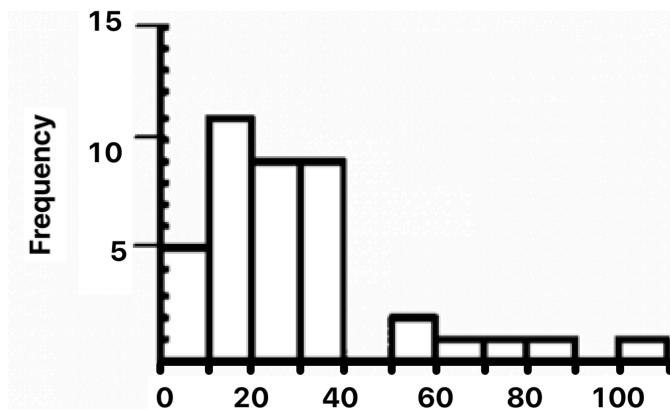
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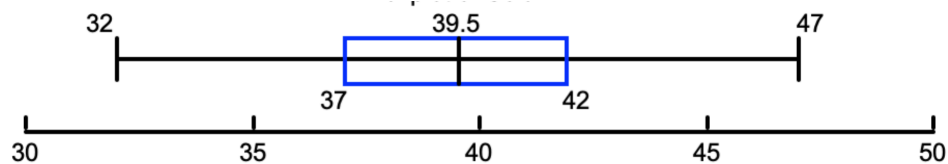
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Start	End	Frequency
30	34	1
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16. The box-and-whisker plot for the grouped data table in the previous problem is given below. Which of the following statements is true?



- (A) 32 is an outlier.
 (B) The IQR is 25.
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Elementary Statistics

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1. What is your test ID ? **T13740**

2. Why must we square the deviations from the mean in calculating the standard deviation?
 - (A) to avoid a zero value in the sum
 - (B) to compensate for outliers
 - (C) to adjust the senseless measurement labeling
 - (D) to remove the degree of bias

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 - (B) modified box plot
 - (C) QQ plot
 - (D) frequency histogram

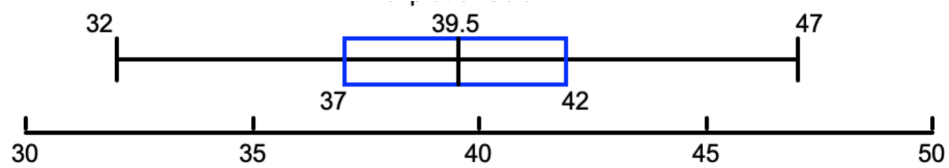
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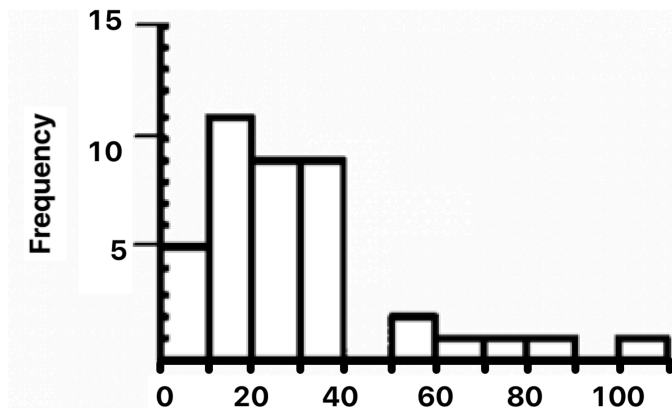
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9. Given National Counselor Examination (NCE) scores are approximately normally distributed with a mean of 50 and standard deviation of 21, the proportion of people with NCEs below 29 is:

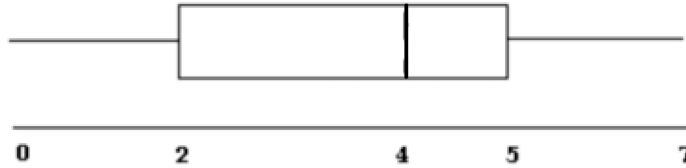
- (A) 50% (B) 84% (C) 16% (D) 34%

10. Which box plot was made from the histogram below?



- (A) (C)
- (B) (D)

11. Interpret the boxplot



- (A) 75% of the data are at most 5.
- (B) There is about the same amount of data from 2 - 5 as there is from 5 - 7.
- (C) There are no data values of 3.
- (D) 50% of the data are 4.

12. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2. Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean and the standard deviation of the new data set.

13. Green sea turtles have normally distributed weights, measured in kilograms, with a mean of 130 and a variance of 40.0. A particular green sea turtle's weight has a z-score of +2.1. What is the weight of this green sea turtle? Round to the nearest whole number.

- (A) 46 kg
- (B) 149 kg
- (C) 214 kg
- (D) 252 kg

14. We have been analyzing ungrouped data in our class. To analyze grouped data we must "ungroup" the data. Calculate the mean and standard deviation for the grouped data set below.

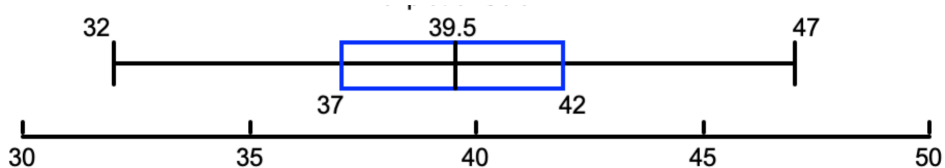
Start	End	Frequency
30	34	1
35	39	2
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45	49	1

15. The data is {1, 6, 6, 11, 18, 18}. Find the inter-quartile range.

- (A) 15
- (B) 8
- (C) 12
- (D) 11.5

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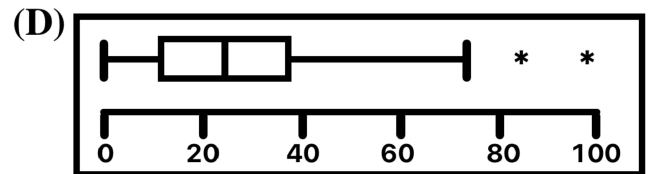
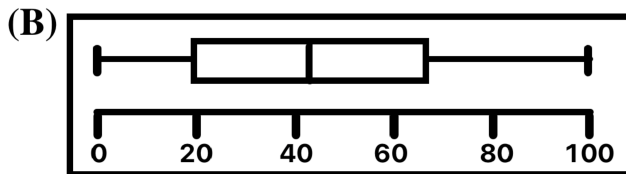
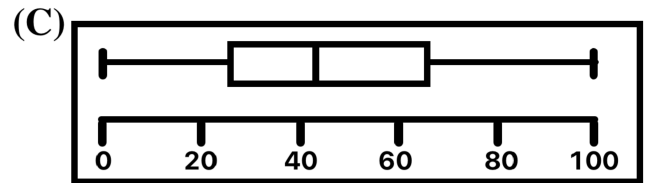
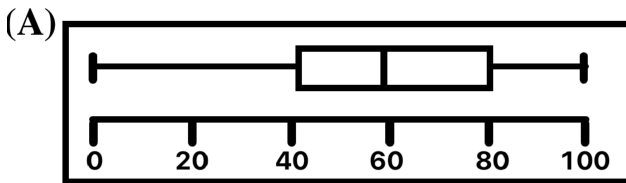
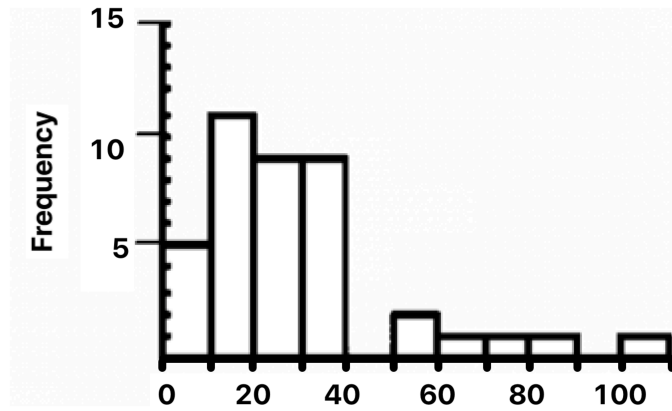
15. The box-and-whisker plot for the grouped data table in the previous problem is given below. Which of the following statements is true?



- (A) 32 is an outlier.
(B) The IQR is 25.
(C) One half of all the data are between 32 and 37 .
(D) About 25% of all the data are greater than 42 .
16. The *NLN* Test used by the National League of Nursing standardizes with a mean of 100 and a standard deviation of 20. What would someone's *NLN* score be if their raw score was 80 from a group with a raw score mean of 82 and standard deviation of 5?
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- In comparing the hexokinase method with the glucose oxidase method for measuring glucose it was found that the mean and standard deviation for the hexokinase method were 120 mg/dl and 4.8 mg/dl respectively. The mean and standard deviation for the glucose oxidase method was 100 mg/dl and 4.0 mg/dl. Graphical analysis, however, seemed to indicate that there was not more variation present in the hexokinase method.
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- (A) Hexokinase method (C) Neither
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18. Which box plot was made from the histogram below?



19. From 1984 to 1995, the winning scores for a golf tournament were 277, 280, 282, 284, and 270. Find the mean absolute deviation (MAD) for this data.

20. The data is $\{1, 6, 6, 11, 18, 18\}$. If we constructed a stem and leaf plot, what would be the "leaf" for the "stem" 1.

21. Why must we square the deviations from the mean in calculating the standard deviation?

(A) to avoid a zero value in the sum

(C) to adjust the senseless measurement labeling

(B) to compensate for outliers

(D) to remove the degree of bias

Elementary Statistics

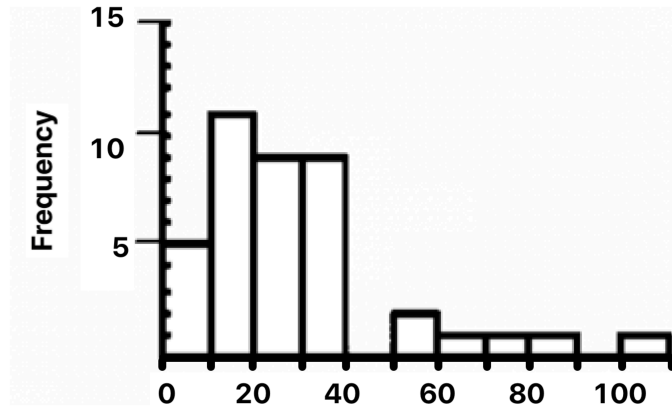
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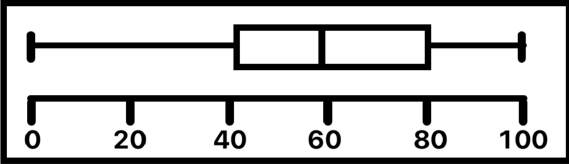
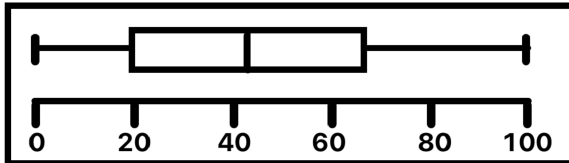
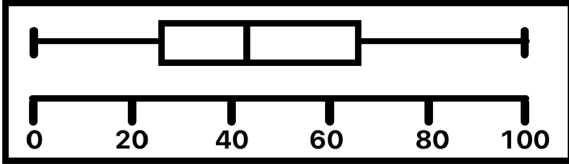
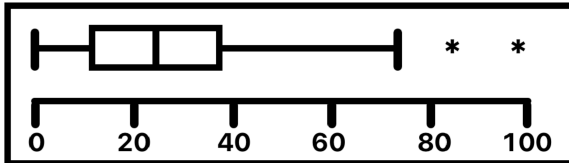
1. What is your test ID ? **T1300Q**
2. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2.
Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean and the standard deviation of the new data set.
3. Suppose that 10 measurements were taken and the mean was calculated to be 5.
Assume next that one of the data items was 4. This was assumed to be an outlier as was discarded. What would be the mean of the remaining 9 numbers?
4. From 1984 to 1995, the winning scores for a golf tournament were 277, 280, 282, 284, and 270. Find the mean absolute deviation (MAD) for this data.
5. We have been analyzing ungrouped data in our class. To analyze grouped data we must "ungroup" the data. Calculate the mean and standard deviation for the grouped data set below.

Start	End	Frequency
30	34	1
35	39	2
40	44	2
45	49	1

6. The data is {1, 6, 6, 11, 18, 18}. Can the data be considered normally distributed. Why?
7. The data is {1, 6, 6, 11, 18, 18}. How many values are more than two (2) standard deviations from the mean?
(A) 0 (C) 2
(B) 1 (D) 3

8. Which box plot was made from the histogram below?



- (A) 
- (B) 
- (C) 
- (D) 

9. We have still have not technically done any statistical analysis, only general data analysis. At what point could we say we have really done statistical analysis?

10. Green sea turtles have normally distributed weights, measured in kilograms, with a mean of 130 and a variance of 40.0. A particular green sea turtle's weight has a z-score of +2.1. What is the weight of this green sea turtle? Round to the nearest whole number.

- (A) 46 kg (B) 149 kg (C) 214 kg (D) 252 kg

*When finished submit your answers by following the appropriate link on **my Assignments page**.
If you feel the answer is none of the choices given, submit no answer to the question*

1. What is your test ID ? **T1472R**

2. Given National Counselor Examination (NCE) scores are approximately normally distributed with a mean of 50 and standard deviation of 21, the proportion of people with NCEs below 29 is:

(A) 50% (B) 84% (C) 16% (D) 34%

3. Which of the following is generally not affected by outliers?

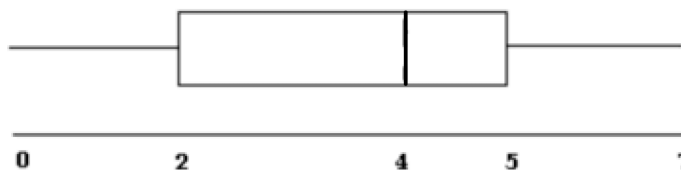
(A) mean (C) inter-quartile range
(B) standard deviation (D) range

4. Suppose that 10 measurements were taken and the mean was calculated to be 5. Assume next that one of the data items was 4. This was assumed to be an outlier as was discarded. What would be the mean of the remaining 9 numbers?

5. We have been analyzing ungrouped data in our class. To analyze grouped data we must "ungroup" the data. Calculate the mean and standard deviation for the grouped data set below.

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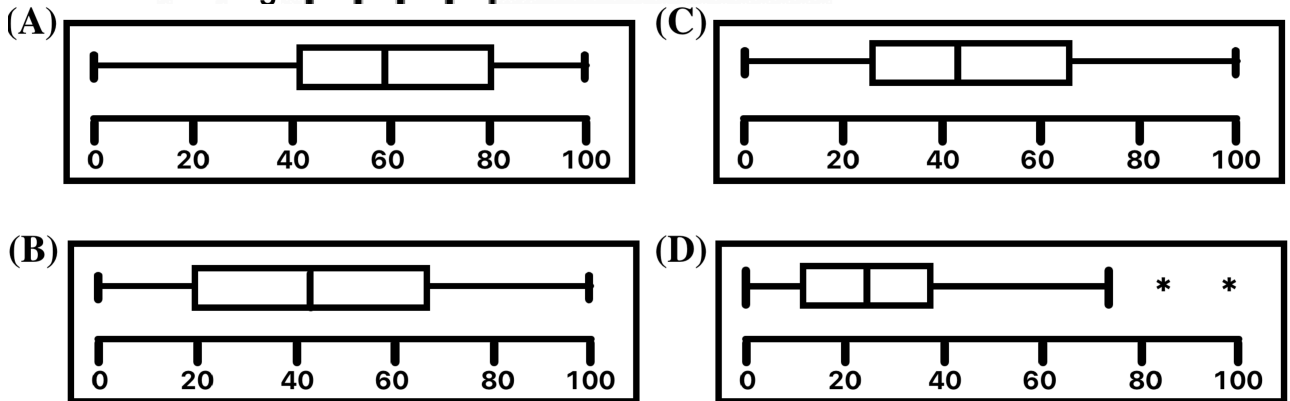
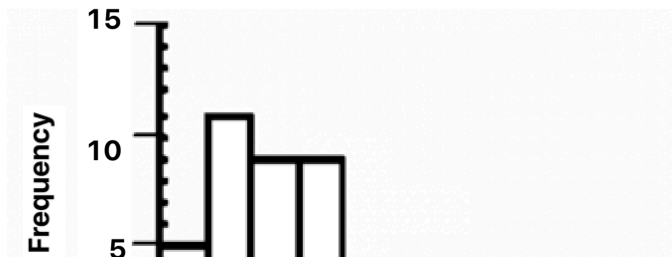
6. Interpret the boxplot



- (A) 75% of the data are at most 5.
- (B) There is about the same amount of data from 2 - 5 as there is from 5 - 7.
- (C) There are no data values of 3.
- (D) 50% of the data are 4.

7. We have still have not technically done any statistical analysis, only general data analysis. At what point could we say we have really done statistical analysis?
8. The data is $\{1, 6, 6, 11, 18, 18\}$. If we constructed a stem and leaf plot , what would be the "leaf" for the "stem" **1** .
9. Why must we square the deviations from the mean in calculating the standard deviation?
- (A) to avoid a zero value in the sum (C) to adjust the senseless measurement labeling
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10. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2. Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean and the standard deviation of the new data set.
11. Three students take equivalent stress tests. Which is the highest relative score (meaning which has the largest z -score value)?
- (A) A score of 144 on a test with a mean of 128 and a standard deviation of 30.
- (B) A score of 90 on a test with a mean of 86 and a standard deviation of 20.
- (C) A score of 20 on a test with a mean of 15 and a standard deviation of 5.
- 12 Data outliers can be easily identified by using which of the following?
- (A) relative frequency histogram (C) QQ plot
- (B) modified box plot (D) frequency histogram
13. The data is $\{1, 6, 6, 11, 18, 18\}$. Can the data be considered normally distributed. Why?

14. Which box plot was made from the histogram below?



- In comparing the hexokinase method with the glucose oxidase method for measuring glucose it was found that the mean and standard deviation for the hexokinase method were 120 mg/dl and 4.8 mg/dl respectively. The mean and standard deviation for the glucose oxidase method was 100 mg/dl and 4.0 mg/dl. Graphical analysis, however, seemed to indicate that there was not more variation present in the hexokinase method.

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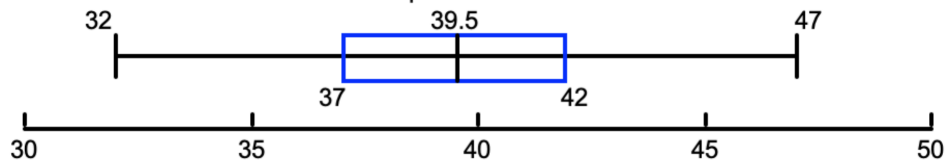
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17. The data is {1, 6, 6, 11, 18, 18}. How many values are more than two (2) standard deviations from the mean?

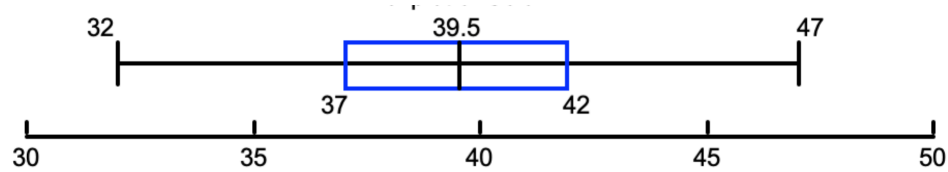
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18. The box-and-whisker plot for the grouped data table in the previous problem is given below. Which of the following statements is true?



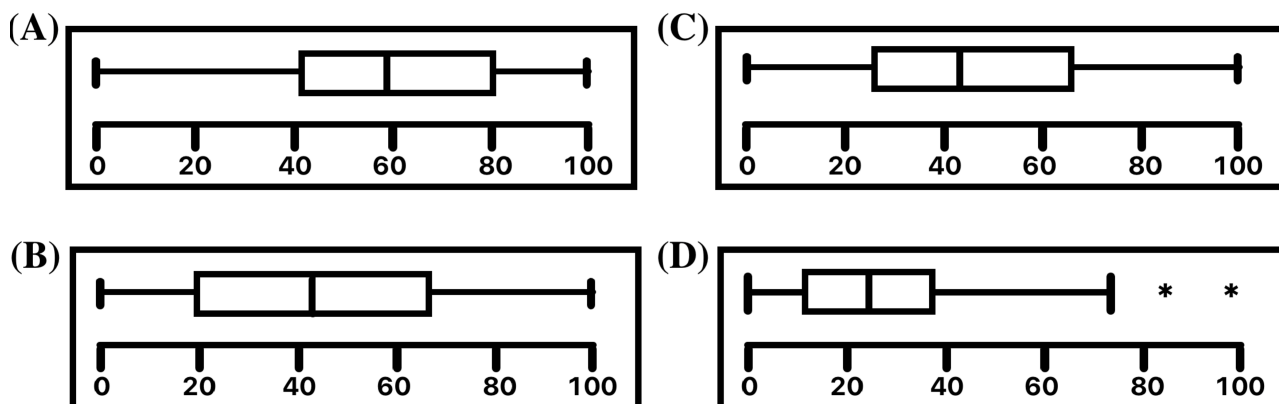
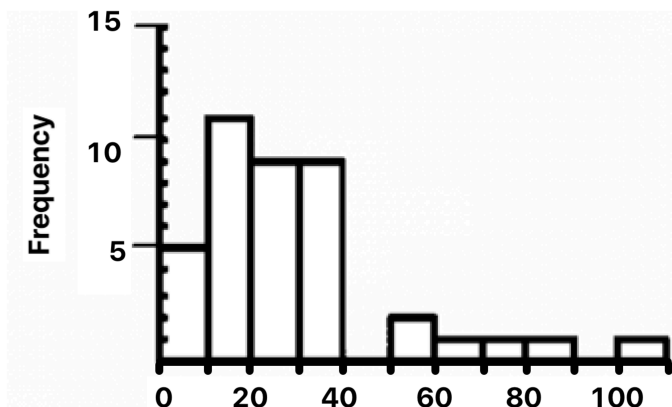
- (A) 32 is an outlier between 32 and 37 .
- (B) About 25% of all the data are greater than 42
- (C) The IQR is 25.
- (D) One half of all the data are
19. The *NLN* Test used by the National League of Nursing standardizes with a mean of 100 and a standard deviation of 20. What would someone's *NLN* score be if their raw score was 80 from a group with a raw score mean of 82 and standard deviation of 5?
- (A) 77 (B) 84 (C) 106 (D) 92
20. The data is $\{1, 6, 6, 11, 18, 18\}$. Find the inter-quartile range.
- (A) 15 (B) 8 (C) 12 (D) 11.5
21. From 1984 to 1995, the winning scores for a golf tournament were 277, 280, 282, 284, and 270. Find the mean absolute deviation (MAD) for this data.

- 12 The box-and-whisker plot for the grouped data table in the previous problem is given below. Which of the following statements is true?



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16. From 1984 to 1995, the winning scores for a golf tournament were 277, 280, 282, 284, and 270. Find the mean absolute deviation (MAD) for this data.
17. Which of the following is generally **not** affected by outliers?
- (A) mean (C) inter-quartile range
(B) standard deviation (D) range

18. Which box plot was made from the histogram below?



19. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2. Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean **and** the standard deviation of the new data set.

20. Three students take equivalent stress tests. Which is the highest relative score (meaning which has the largest z -score value)?

(A) A score of 144 on a test with a mean of 128 and a standard deviation of 30.

(B) A score of 90 on a test with a mean of 86 and a standard deviation of 20.

(C) A score of 20 on a test with a mean of 15 and a standard deviation of 5.

21. Suppose that 10 measurements were taken and the mean was calculated to be 5. Assume next that one of the data items was 4. This was assumed to be an outlier as was discarded. What would be the mean of the remaining 9 numbers?

Elementary Statistics

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1. What is your test ID ? **T1329T**

2. The data is {1, 6, 6, 11, 18, 18}. Find the inter-quartile range.

(A) 15 (B) 8 (C) 12 (D) 11.5

3. Why must we square the deviations from the mean in calculating the standard deviation?

(A) to avoid a zero value in the sum (C) to adjust the senseless measurement labeling
(B) to compensate for outliers (D) to remove the degree of bias

4. The data is {1, 6, 6, 11, 18, 18}. How many values are more than two (2) standard deviations from the mean?

(A) 0 (C) 2
(B) 1 (D) 3

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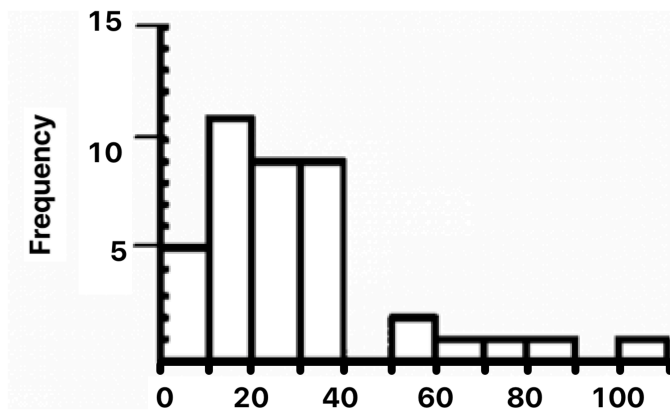
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(A) mean (C) inter-quartile range
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7. The *NLN* Test used by the National League of Nursing standardizes with a mean of 100 and a standard deviation of 20. What would someone's *NLN* score be if their raw score was 80 from a group with a raw score mean of 82 and standard deviation of 5?

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13. Which box plot was made from the histogram below?



- (A)
- (B)
- (C)
- (D)

MTH 150 Test 1
Fall 2025

Elementary Statistics

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1. What is your test ID ? **T1500U**

2. Why must we square the deviations from the mean in calculating the standard deviation?
 - (A) to avoid a zero value in the sum
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 - (A) relative frequency histogram
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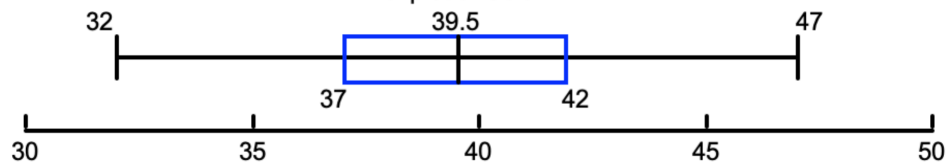
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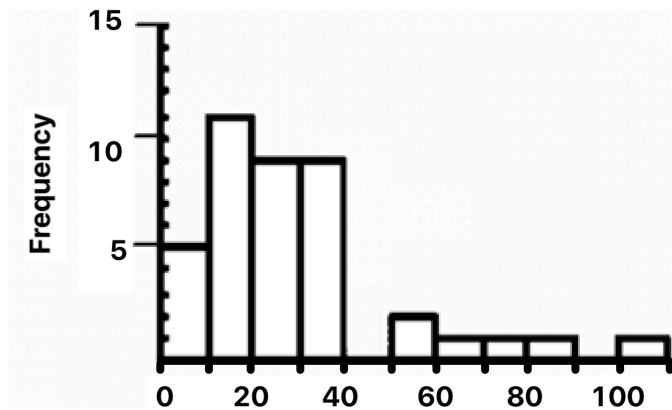
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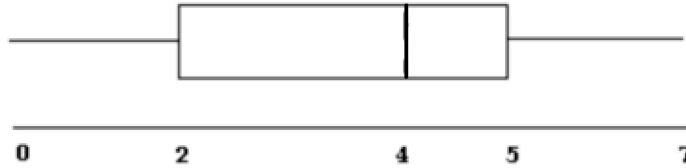
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- (A) (C)
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11. Interpret the boxplot



- (A) 75% of the data are at most 5.
- (B) There is about the same amount of data from 2 - 5 as there is from 5 - 7.
- (C) There are no data values of 3.
- (D) 50% of the data are 4.

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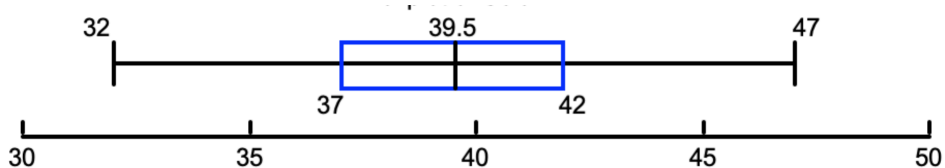
Start	End	Frequency
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- (A) 15
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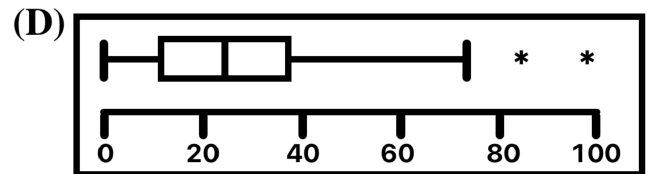
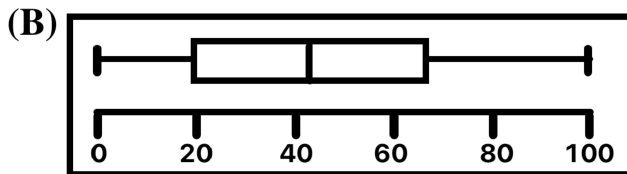
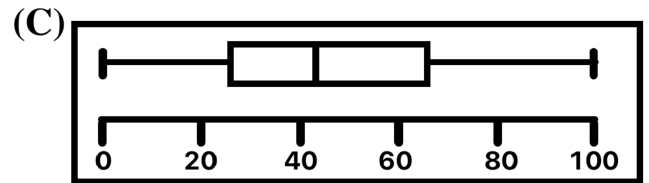
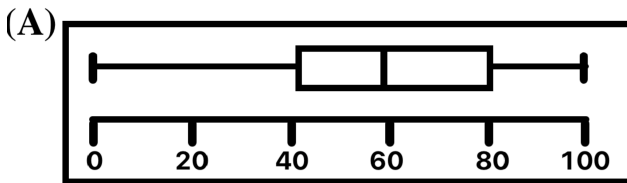
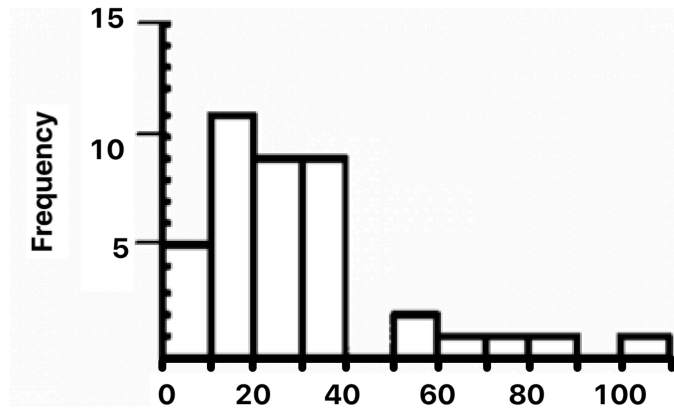
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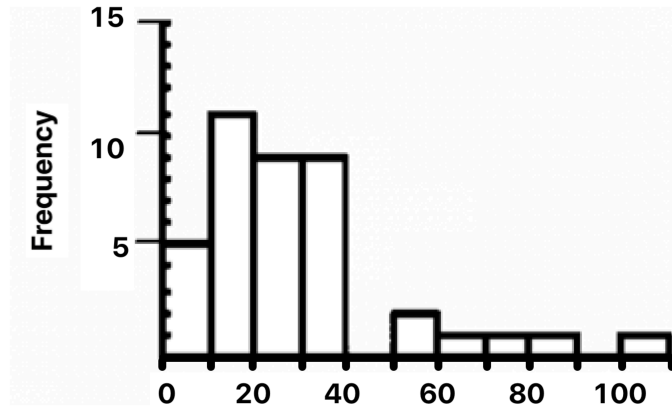
(A) to avoid a zero value in the sum

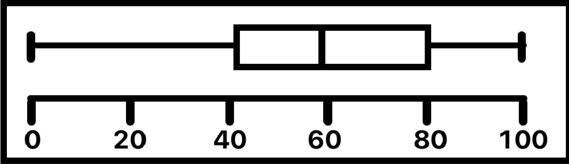
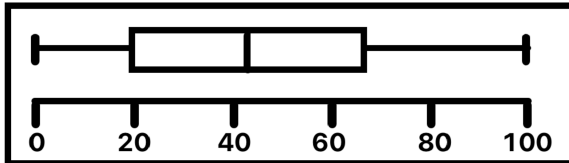
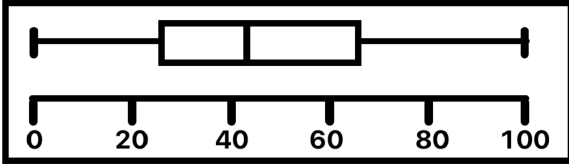
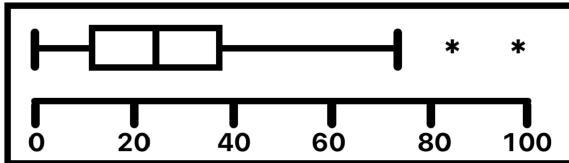
(C) to adjust the senseless measurement labeling

(B) to compensate for outliers

(D) to remove the degree of bias

8. Which box plot was made from the histogram below?



- (A) 
- (B) 
- (C) 
- (D) 

9. We have still have not technically done any statistical analysis, only general data analysis. At what point could we say we have really done statistical analysis?

10. Green sea turtles have normally distributed weights, measured in kilograms, with a mean of 130 and a variance of 40.0. A particular green sea turtle's weight has a z-score of +2.1. What is the weight of this green sea turtle? Round to the nearest whole number.

- (A) 46 kg (B) 149 kg (C) 214 kg (D) 252 kg

*When finished submit your answers by following the appropriate link on **my Assignments page**.
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1. What is your test ID ? **T1395X**

2. Given National Counselor Examination (NCE) scores are approximately normally distributed with a mean of 50 and standard deviation of 21, the proportion of people with NCEs below 29 is:

(A) 50% (B) 84% (C) 16% (D) 34%

3. Which of the following is generally not affected by outliers?

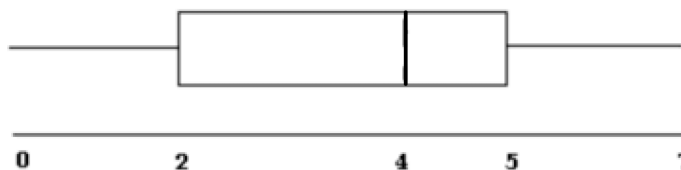
(A) mean (C) inter-quartile range
(B) standard deviation (D) range

4. Suppose that 10 measurements were taken and the mean was calculated to be 5. Assume next that one of the data items was 4. This was assumed to be an outlier as was discarded. What would be the mean of the remaining 9 numbers?

5. We have been analyzing ungrouped data in our class. To analyze grouped data we must "ungroup" the data. Calculate the mean and standard deviation for the grouped data set below.

Start	End	Frequency
30	34	1
35	39	2
40	44	2
45	49	1

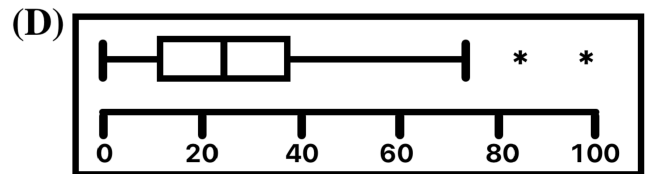
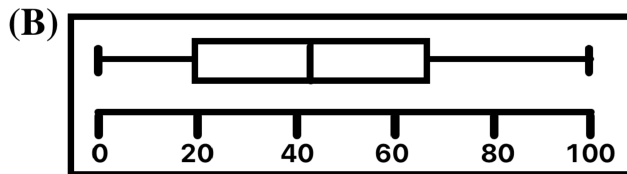
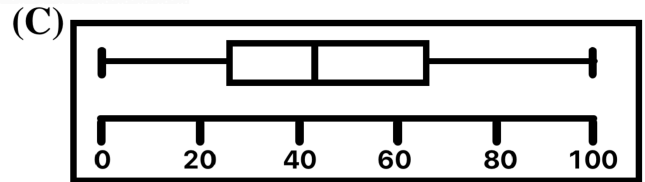
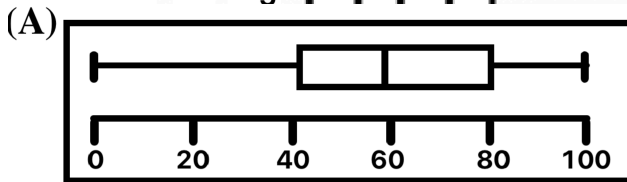
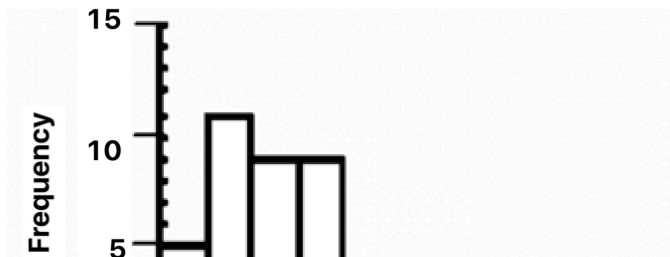
6. Interpret the boxplot



- (A) 75% of the data are at most 5.
- (B) There is about the same amount of data from 2 - 5 as there is from 5 - 7.
- (C) There are no data values of 3.
- (D) 50% of the data are 4.

7. We have still have not technically done any statistical analysis, only general data analysis. At what point could we say we have really done statistical analysis?
8. The data is $\{1, 6, 6, 11, 18, 18\}$. If we constructed a stem and leaf plot , what would be the "leaf" for the "stem" **1** .
9. Why must we square the deviations from the mean in calculating the standard deviation?
- (A) to avoid a zero value in the sum (C) to adjust the senseless measurement labeling
- (B) to compensate for outliers (D) to remove the degree of bias
10. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2. Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean and the standard deviation of the new data set.
11. Three students take equivalent stress tests. Which is the highest relative score (meaning which has the largest z -score value)?
- (A) A score of 144 on a test with a mean of 128 and a standard deviation of 30.
- (B) A score of 90 on a test with a mean of 86 and a standard deviation of 20.
- (C) A score of 20 on a test with a mean of 15 and a standard deviation of 5.
- 12 Data outliers can be easily identified by using which of the following?
- (A) relative frequency histogram (C) QQ plot
- (B) modified box plot (D) frequency histogram
13. The data is $\{1, 6, 6, 11, 18, 18\}$. Can the data be considered normally distributed. Why?

14. Which box plot was made from the histogram below?



- In comparing the hexokinase method with the glucose oxidase method for measuring glucose it was found that the mean and standard deviation for the hexokinase method were 120 mg/dl and 4.8 mg/dl respectively. The mean and standard deviation for the glucose oxidase method was 100 mg/dl and 4.0 mg/dl. Graphical analysis, however, seemed to indicate that there was not more variation present in the hexokinase method.

15. Which evaluation method really exhibited the greatest variability ?

- (A) Hexokinase method (C) Neither
 (B) Glucose oxidase method (D) Cannot be determined

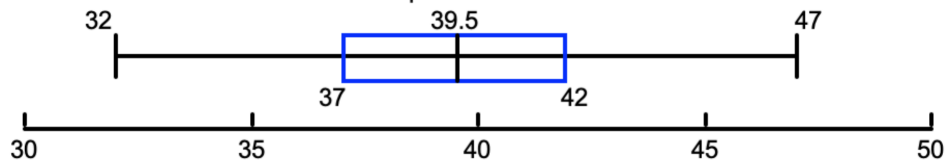
16 Green sea turtles have normally distributed weights, measured in kilograms, with a mean of 130 and a variance of 40.0. A particular green sea turtle's weight has a z-score of +2.1. What is the weight of this green sea turtle? Round to the nearest whole number.

- (A) 46 kg (B) 149 kg (C) 214 kg (D) 252 kg

17. The data is {1, 6, 6, 11, 18, 18}. How many values are more than two (2) standard deviations from the mean?

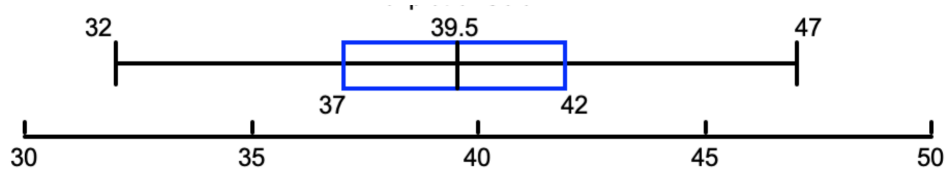
- (A) 0 (C) 2
 (B) 1 (D) 3

18. The box-and-whisker plot for the grouped data table in the previous problem is given below. Which of the following statements is true?



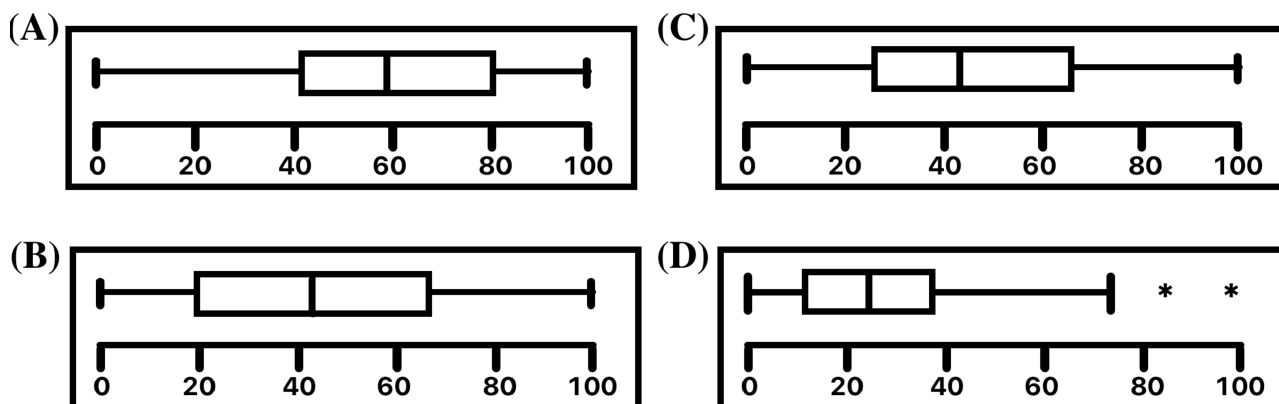
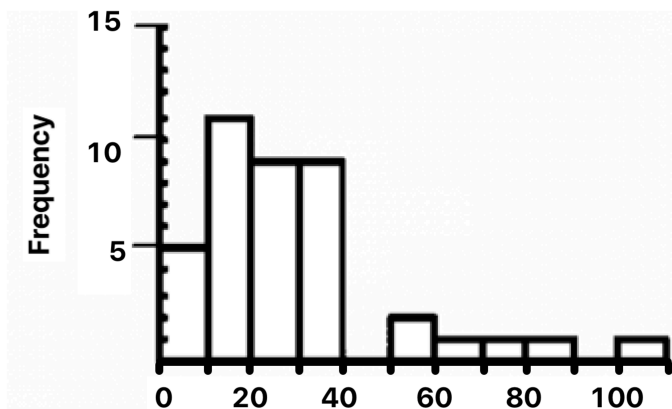
- (A) 32 is an outlier between 32 and 37 .
- (B) About 25% of all the data are greater than 42
- (C) The IQR is 25.
- (D) One half of all the data are
19. The *NLN* Test used by the National League of Nursing standardizes with a mean of 100 and a standard deviation of 20. What would someone's *NLN* score be if their raw score was 80 from a group with a raw score mean of 82 and standard deviation of 5?
- (A) 77 (B) 84 (C) 106 (D) 92
20. The data is $\{1, 6, 6, 11, 18, 18\}$. Find the inter-quartile range.
- (A) 15 (B) 8 (C) 12 (D) 11.5
21. From 1984 to 1995, the winning scores for a golf tournament were 277, 280, 282, 284, and 270. Find the mean absolute deviation (MAD) for this data.

- 12 The box-and-whisker plot for the grouped data table in the previous problem is given below. Which of the following statements is true?



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17. Which of the following is generally **not** affected by outliers?
- (A) mean (C) inter-quartile range
(B) standard deviation (D) range

18. Which box plot was made from the histogram below?



19. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2. Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean **and** the standard deviation of the new data set.

20. Three students take equivalent stress tests. Which is the highest relative score (meaning which has the largest z -score value)?

(A) A score of 144 on a test with a mean of 128 and a standard deviation of 30.

(B) A score of 90 on a test with a mean of 86 and a standard deviation of 20.

(C) A score of 20 on a test with a mean of 15 and a standard deviation of 5.

21. Suppose that 10 measurements were taken and the mean was calculated to be 5. Assume next that one of the data items was 4. This was assumed to be an outlier as was discarded. What would be the mean of the remaining 9 numbers?

Elementary Statistics

*When finished submit your answers by following the appropriate link on **my Assignments page**.
If you feel the answer is none of the choices given, submit no answer to the question.*

1. What is your test ID ? **T1338Z**

2. The data is {1, 6, 6, 11, 18, 18}. Find the inter-quartile range.

(A) 15 (B) 8 (C) 12 (D) 11.5

3. Why must we square the deviations from the mean in calculating the standard deviation?

(A) to avoid a zero value in the sum (C) to adjust the senseless measurement labeling
(B) to compensate for outliers (D) to remove the degree of bias

4. The data is {1, 6, 6, 11, 18, 18}. How many values are more than two (2) standard deviations from the mean?

(A) 0 (C) 2
(B) 1 (D) 3

5. Three students take equivalent stress tests. Which is the highest relative score (meaning which has the largest z -score value)?

(A) A score of 144 on a test with a mean of 128 and a standard deviation of 30.
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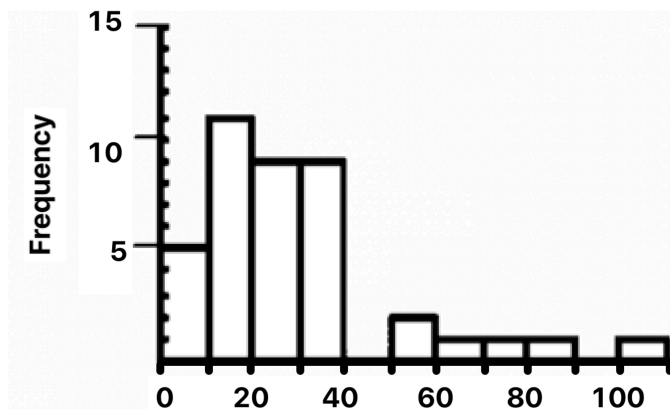
6. Which of the following is generally not affected by outliers?

(A) mean (C) inter-quartile range
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7. The *NLN* Test used by the National League of Nursing standardizes with a mean of 100 and a standard deviation of 20. What would someone's *NLN* score be if their raw score was 80 from a group with a raw score mean of 82 and standard deviation of 5?

(A) 77 (B) 84 (C) 106 (D) 92

8. The data is $\{1, 6, 6, 11, 18, 18\}$. Can the data be considered normally distributed. Why?
9. Suppose that 10 measurements were taken and the mean was calculated to be 5. Assume next that one of the data items was 4. This was assumed to be an outlier as was discarded. What would be the mean of the remaining 9 numbers?
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12. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2. Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean and the standard deviation of the new data set.
13. Which box plot was made from the histogram below?



- (A)
- (B)
- (C)
- (D)

Elementary Statistics

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1. What is your test ID ? **T1450G**

2. Why must we square the deviations from the mean in calculating the standard deviation?
 - (A) to avoid a zero value in the sum
 - (B) to compensate for outliers
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3. Data outliers can be easily identified by using which of the following?
 - (A) relative frequency histogram
 - (B) modified box plot
 - (C) QQ plot
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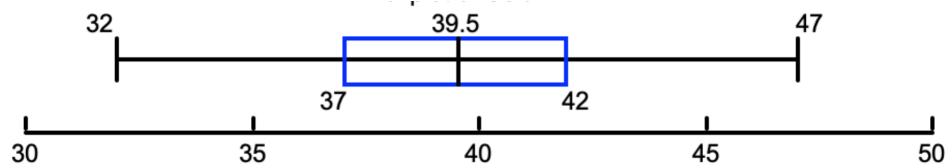
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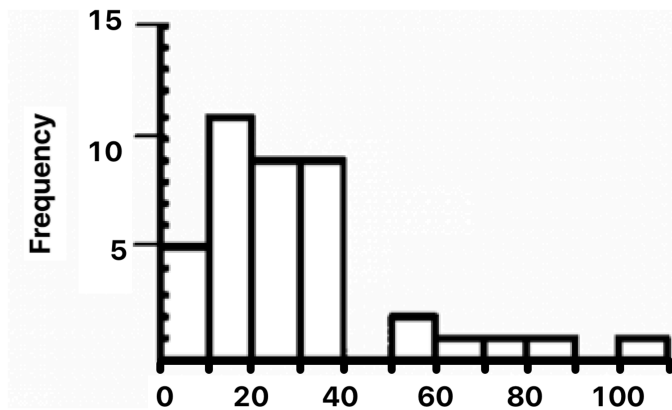
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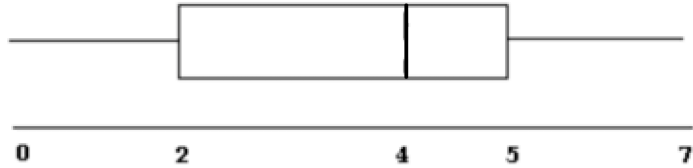
- (A) 50% (B) 84% (C) 16% (D) 34%

10. Which box plot was made from the histogram below?



- (A) (C)
- (B) (D)

11. Interpret the boxplot



- (A) 75% of the data are at most 5.
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- (C) There are no data values of 3.
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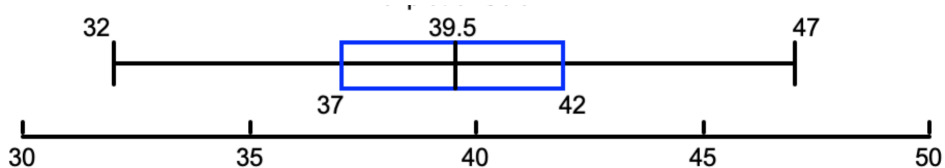
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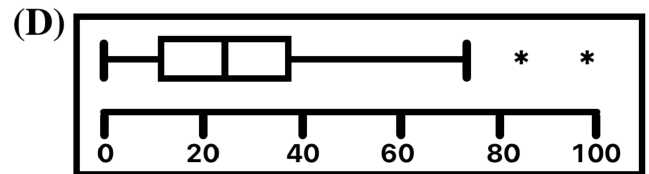
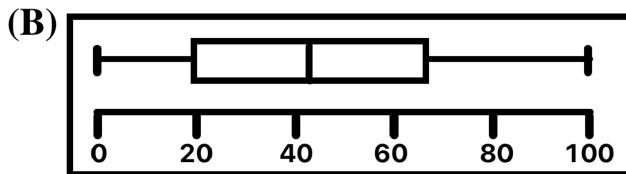
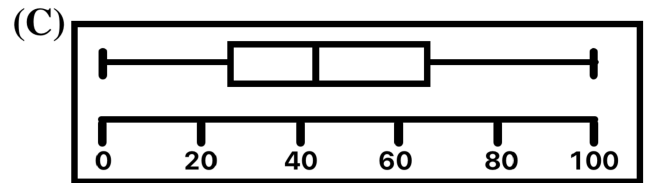
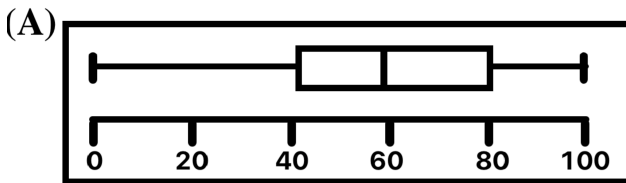
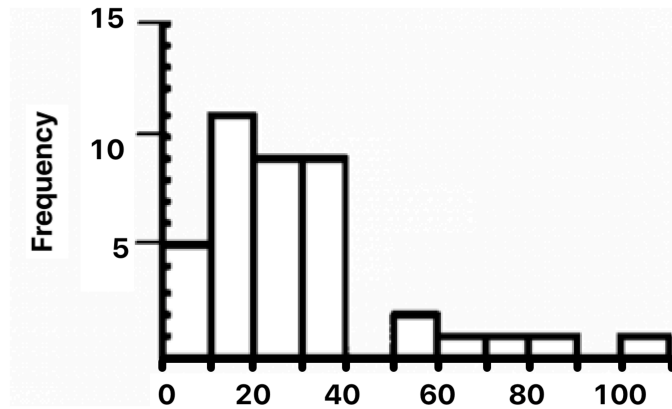
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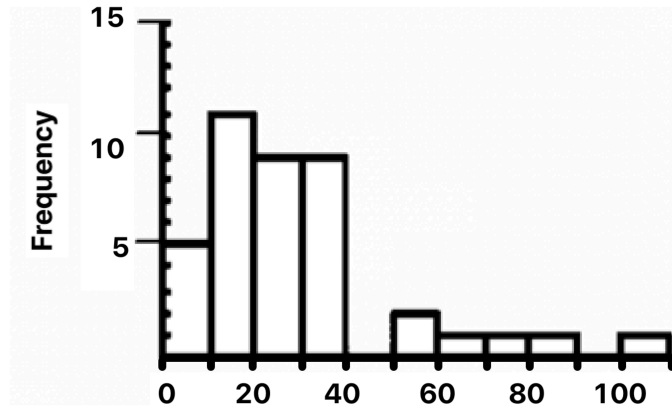
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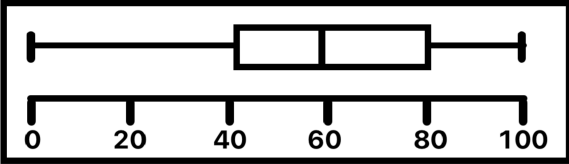
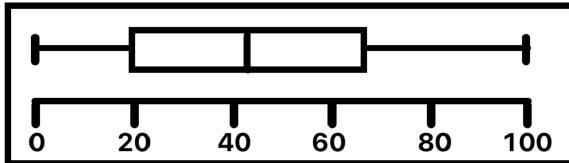
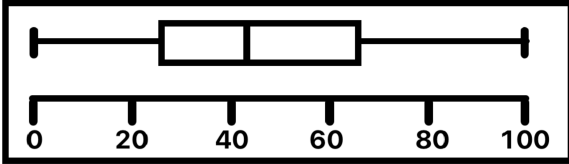
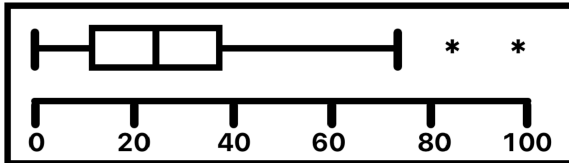
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1. What is your test ID ? **T1300M**

2. Given National Counselor Examination (NCE) scores are approximately normally distributed with a mean of 50 and standard deviation of 21, the proportion of people with NCEs below 29 is:

(A) 50% (B) 84% (C) 16% (D) 34%

3. Which of the following is generally not affected by outliers?

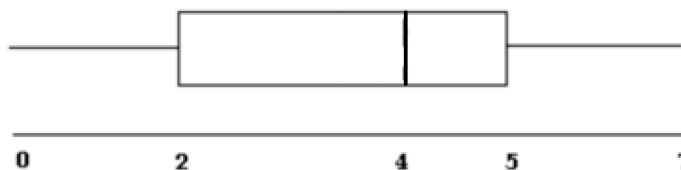
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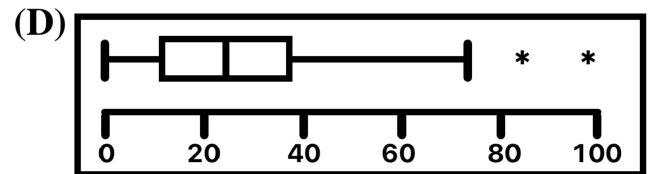
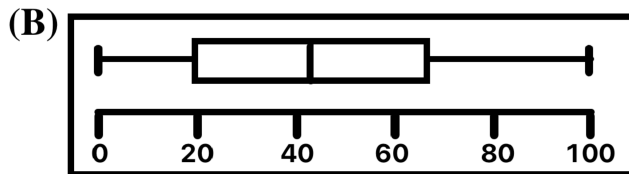
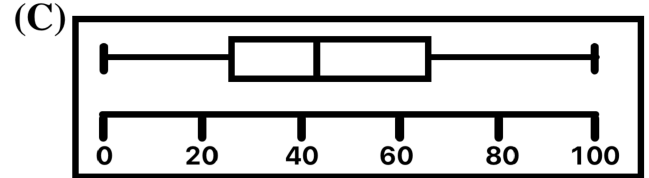
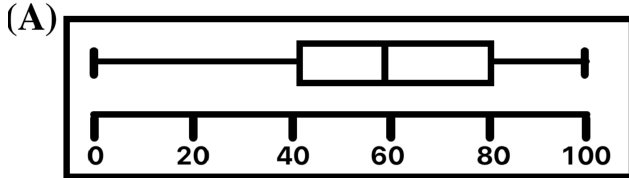
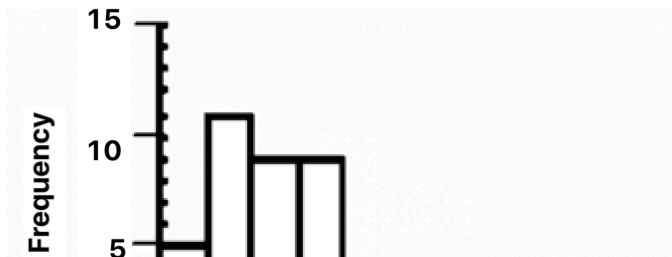
6. Interpret the boxplot



- (A) 75% of the data are at most 5.
- (B) There is about the same amount of data from 2 - 5 as there is from 5 - 7.
- (C) There are no data values of 3.
- (D) 50% of the data are 4.

7. We have still have not technically done any statistical analysis, only general data analysis. At what point could we say we have really done statistical analysis?
8. The data is $\{1, 6, 6, 11, 18, 18\}$. If we constructed a stem and leaf plot , what would be the "leaf" for the "stem" **1** .
9. Why must we square the deviations from the mean in calculating the standard deviation?
- (A) to avoid a zero value in the sum (C) to adjust the senseless measurement labeling
- (B) to compensate for outliers (D) to remove the degree of bias
10. Suppose that the mean of a set of data is 30 and the standard deviation is 4.2. Assume that the data needed to be rescaled by subtracting 5.1 from each data item. Compute the mean and the standard deviation of the new data set.
11. Three students take equivalent stress tests. Which is the highest relative score (meaning which has the largest z -score value)?
- (A) A score of 144 on a test with a mean of 128 and a standard deviation of 30.
- (B) A score of 90 on a test with a mean of 86 and a standard deviation of 20.
- (C) A score of 20 on a test with a mean of 15 and a standard deviation of 5.
- 12 Data outliers can be easily identified by using which of the following?
- (A) relative frequency histogram (C) QQ plot
- (B) modified box plot (D) frequency histogram
13. The data is $\{1, 6, 6, 11, 18, 18\}$. Can the data be considered normally distributed. Why?

14. Which box plot was made from the histogram below?



- In comparing the hexokinase method with the glucose oxidase method for measuring glucose it was found that the mean and standard deviation for the hexokinase method were 120 mg/dl and 4.8 mg/dl respectively. The mean and standard deviation for the glucose oxidase method was 100 mg/dl and 4.0 mg/dl. Graphical analysis, however, seemed to indicate that there was not more variation present in the hexokinase method.

15. Which evaluation method really exhibited the greatest variability ?

- (A) Hexokinase method (C) Neither
 (B) Glucose oxidase method (D) Cannot be determined

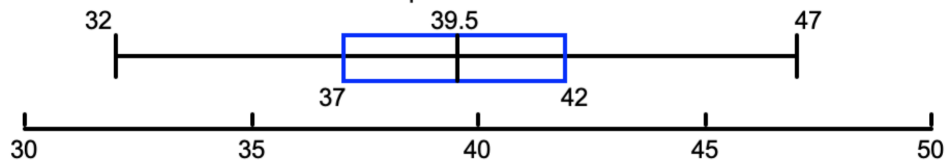
16 Green sea turtles have normally distributed weights, measured in kilograms, with a mean of 130 and a variance of 40.0. A particular green sea turtle's weight has a z-score of +2.1. What is the weight of this green sea turtle? Round to the nearest whole number.

- (A) 46 kg (B) 149 kg (C) 214 kg (D) 252 kg

17. The data is {1, 6, 6, 11, 18, 18}. How many values are more than two (2) standard deviations from the mean?

- (A) 0 (C) 2
 (B) 1 (D) 3

18. The box-and-whisker plot for the grouped data table in the previous problem is given below. Which of the following statements is true?



- (A) 32 is an outlier between 32 and 37 .
(B) About 25% of all the data are greater than 42
(C) The IQR is 25.
(D) One half of all the data are
19. The *NLN* Test used by the National League of Nursing standardizes with a mean of 100 and a standard deviation of 20. What would someone's *NLN* score be if their raw score was 80 from a group with a raw score mean of 82 and standard deviation of 5?
- (A) 77 (B) 84 (C) 106 (D) 92
20. The data is $\{1, 6, 6, 11, 18, 18\}$. Find the inter-quartile range.
- (A) 15 (B) 8 (C) 12 (D) 11.5
21. From 1984 to 1995, the winning scores for a golf tournament were 277, 280, 282, 284, and 270. Find the mean absolute deviation (MAD) for this data.