Given a dataset with the following properties:

mean = 50

median = 40

standard deviation = 5

What is the shape of the distribution?

- ○ Normal
- ◉ Left skewed
- ○ Right skewed
- ○ Inconclusive

NEXT

If you have the following measures for two samples:

Sample 1: mean = 15, variance = 7

Sample 2: mean = 7, variance = 15

Which sample has a larger range?

- ○ Sample 1
- ◉ Sample 2
- ○ Both samples have the same range
- ○ Inconclusive

NEXT

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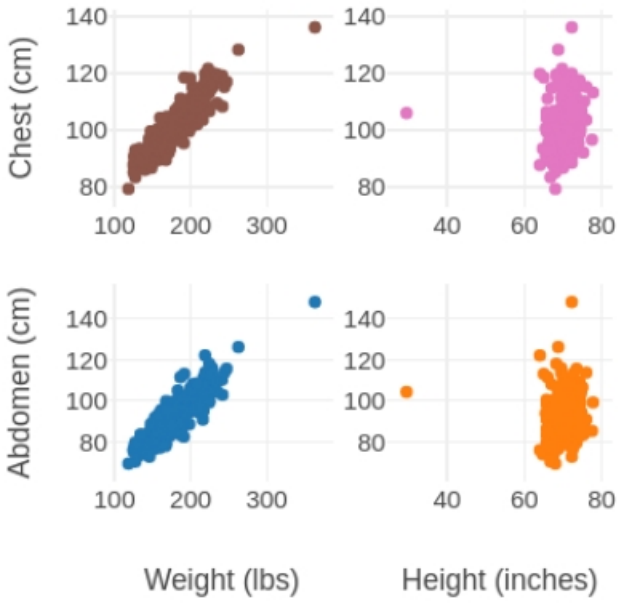
Which of the following observations is correct based on the scatter plots shown below?




- ○ There is no correlation between chest size and weight.
- ○ Chest size is inversely correlated to height.
- ○ Abdomen size and height are negatively correlated.
- ◉ Abdomen size and weight have a nearly perfect positive correlation.

NEXT

*4 of 20*

Please choose the best response to this question: Who should you reach out to for help?

- ○ Help is on the way.
- ◉ The support team can help you.
- ○ Thank you for helping.
- ○ I am able to reach it.

NEXT

UDACITY

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Given a set of real numbers 'x' with a mean of 81 and std of 130, a data point with a value of 250 can be reliably considered

- ○ outlier
- ◉ not outlier
- ○ Inconclusive

NEXT

If we have the data:

0, 1, 1, 2, 3, 5, 8

What is the mode?

- (●) 1
- ( ) 0
- ( ) 5
- ( ) No mode

NEXT

*7 of 20*

In a symmetric distribution, Interquartile Range (IQR) = 10 and median = 10. Calculate the First Quartile (Q1)

- (●) 5
- ( ) 10
- ( ) 15
- ( ) 20

NEXT

The mean of a sequence of n numbers is m. If we split the sequence into two sequences of lengths n1 and n2 and compute their means m1 and m2, which of the following is TRUE?

- ○ m = (m1 + m2) / 2
- ○ m = (m1 + m2) / (n1 + n2)
- ○ m = (n2 * m1 + n1 * m2) / (n1 + n2)
- ◉ m = (n1 * m1+ n2 * m2) / (n1 + n2)

NEXT

If the variance of a dataset is 50 and all data points are increased by 100% then what will be the variance?

- (●) 50
- ( ) 100
- ( ) 200
- ( ) 25

NEXT

If the 25th, 50th and 75th percentiles of a dataset are x, y and z, which of the following is always TRUE?

- ○ y−x=z−y
- ○ y−x>z−y
- ○ y−x<z−y
- ◉ (y−x)(y−z)<=0

NEXT