ARKANSAS STATISTICS · UNIT 1 · 10 QUESTIONS

Data and Distributions — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A test score is 62, the mean is 70, and the standard deviation is 4 The z score of the test score is**

- A 2
- B 8
- C -2
- D -8

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2 **For a normal distribution, about 99.7 percent of values lie within**

- A 1 standard deviation of the mean
- B 2 standard deviations of the mean
- C 4 standard deviations of the mean
- D 3 standard deviations of the mean

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3

A value is at the 25th percentile This means about 25 percent of values are

A At or below it

B Above it

C Equal to the mean

D Unrelated to it

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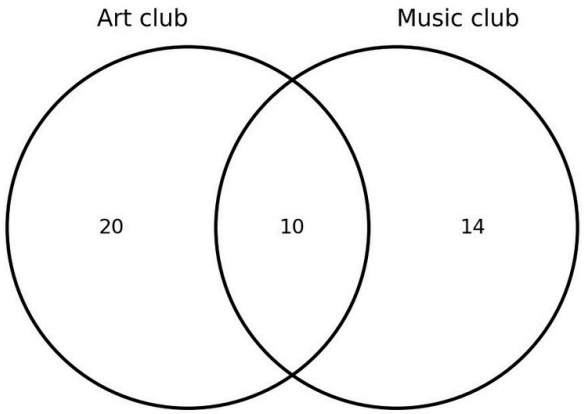
4 **The diagram shows two groups of students 20 students are in the art club only, 10 are in both clubs, and 14 are in the music club only The total number of students in the music club is**



Question 4

The diagram shows two groups of students 20 students are in the art club only, 10 are in both clubs, and 14 are in the music club only The total number of students in the music club is

A) 20

B) 24

C) 30

D) 44

A 20

B 24

C 30

D 44

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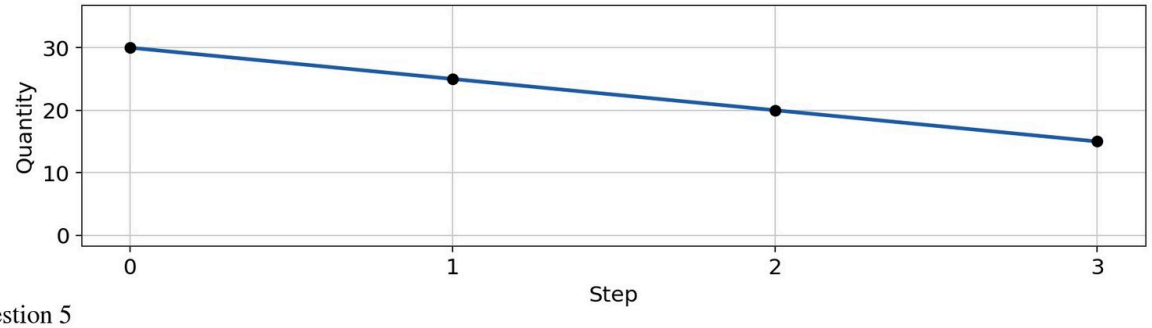
5 **The graph shows a quantity falling from 30 to $\frac{15}{3}$ steps The total decrease from the first value to the last value is**



Question 5

The graph shows *a* quantity falling from 30 *to* 15 / 3 steps *The* total decrease from *the* first value *to the* last value *is*

A) 10

B) 30

C) 15

D) 45

A 10

B 30

C 15

D 45

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6 **In a left skewed distribution the mean is usually**

A Greater than the median

B Equal to the mode exactly

C Greater than the maximum

D Less than the median

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7 **The range is sensitive to outliers because it uses only the**

A Minimum and maximum

B Mean and median

C Quartiles

D Standard deviation

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8

A dotplot shows each value as a dot above a number line A cluster of dots shows

A A gap in the data

B Many values near that number

C An outlier only

D The mean exactly

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9

A bar chart is best for displaying

Question 9

A bar chart is best for displaying

A) A normal distribution only

B) A z score

C) A categorical variable

D) A correlation

A A normal distribution only

B A z score

C A categorical variable

D A correlation

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10 **The data values are 8, 12, 16, 20, and 24 What is the median**

ANSWER

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ANSWER KEY

1.	C	**5.**	C	**9.**	C
2.	D	**6.**	D	**10.**	16
3.	A	**7.**	A		
4.	B	**8.**	B		

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