ARKANSAS STATISTICS · UNIT 4 · 5 QUESTIONS

Regression and Experiments — 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 long line of men in 1930s coats and hats queuing outside a city building for food. In a regression line, a slope of -1.5 means that for each increase of 1 in x The predicted y decreases by



A 1

B 0.5

C 15

D 1.5

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2 **A regression equation is predicted y = 20 - 2x For x = 3 , the predicted y is**

A 14

B 26

C 60

D 6

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3 **An observed value is 18 and the predicted value is 22 The residual is**

A 4

B -4

C 40

D 0.8

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4 **A correlation coefficient of 0.3 indicates a**

A Strong positive association

B Strong negative association

C Weak positive association

D Perfect association

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5 **A coefficient of determination of 0.49 means about 49 percent of the variation in y is**

A Unexplained

B Due to chance only

C Equal to the correlation

D Explained by the linear relationship with x

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ANSWER KEY

1. D
2. A
3. B
4. C
5. D

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