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QUESTION 1

= 0.05 The average weight of castings produced at the Nebraska foundry is 3.7 lbs. A new supplier from Kansas has submitted a batch of castings known to have normally distributed weights. A random sample of 10 has an average weight of 3.6 lbs. and standard deviation 0.06 lbs. Do these data indicate that the Kansas foundry produce lighter castings on average?
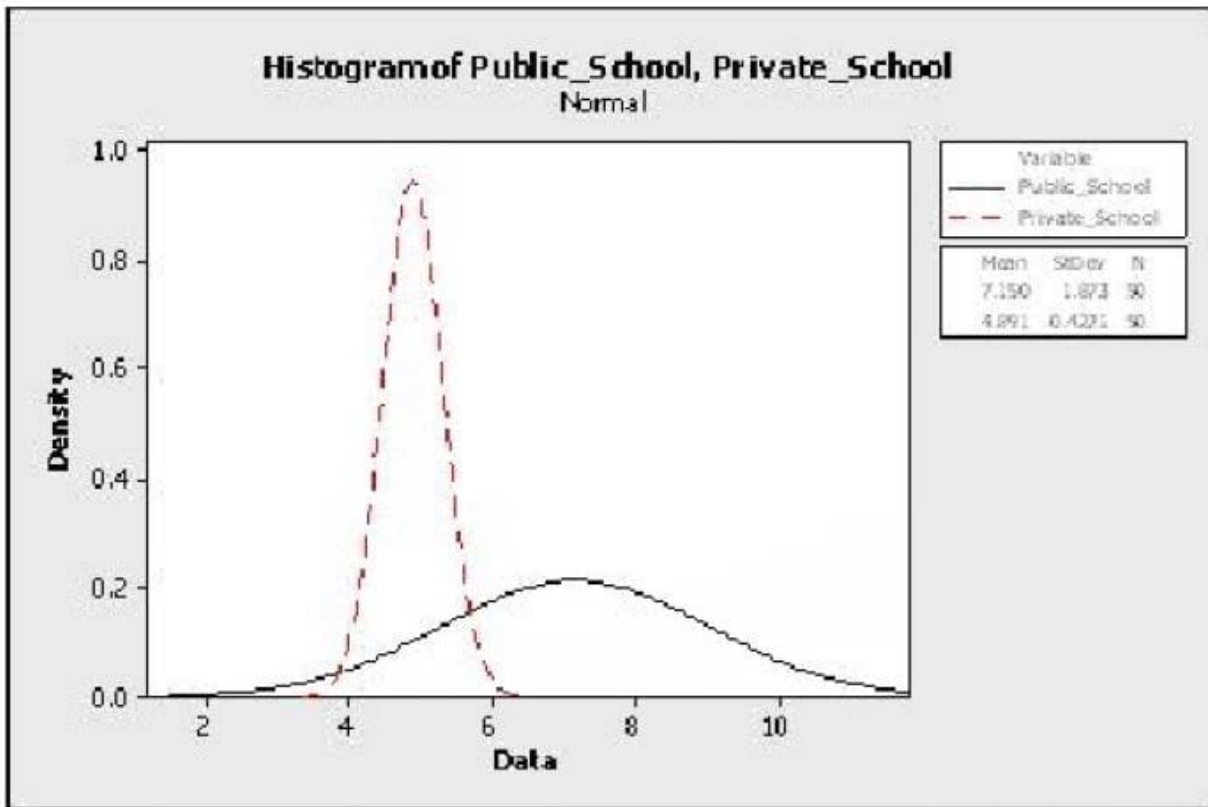
A. yes

B. no

Correct Answer: A

QUESTION 2

Control Charts were developed by Dr. Shewhart to track data over time. To detect Special Cause variation the Control Charts use which of these?

A. Data shift analysis

B. Outlier analysis methods

C. Center Line and Control Limits

D. None of the above

Correct Answer: C

QUESTION 3

The class score distribution of schools in a metropolitan area is shown here along with an analysis output. Comment on the statistical significance between the Means of the two distributions. Select the most appropriate statement.

Histogram of Public_School, Private_School
Normal

Two-sample **t** for Private_School vs Public_School

	N	Mean	StDev	SE Mean
Private_School	50	4.891	0.422	0.060
Public_School	50	7.15	1.87	0.26

Difference = mu (Private_School) - mu (Public_School)
Estimate for difference: -2.259
99% CI for difference: (-2.985, -1.534)
T-Test of difference = 0 (vs not =): T-Value = -8.32 p-Value = 0.000 DF = 53

A. The two class Means are statistically different from each other

B. The two class Means statistically not different from each other

C. Inadequate information on class Means to make any statistical conclusions

D. A visual comparison shows that class Means are not statistically different

Correct Answer: A

QUESTION 4

A project whose definition does not include performance metrics:

A. will typically be short term

B. use statistical inference

C. have a high risk of failure

D. should not be approved

E. none of the above

Correct Answer: D

QUESTION 5

A valid mathematical Regression represents all of the characteristics shown except _____.

A. All of the standardized residuals will be within ? Standard Deviations

B. The sum of the residuals is zero

C. The residuals when plotted follow a Normal Distribution

D. Most standardized residuals are within ? Standard Deviations

E. The Residual is equal to the difference between the observed and predicted values

Correct Answer: A