





Find solutions for your homework

Search

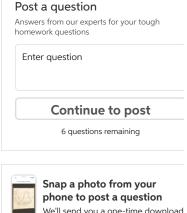
home / study / math / statistics and probability / statistics and probability questions and answers / 5) blood samples of 5 people were sent to each ...

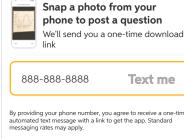
Question: 5) Blood samples of 5 people were sent to each of two labora...

5) Blood samples of 5 people were sent to each of two laboratories (Lab 1 and Lab 2) for cholesterol determinations. The resulting data are summarized here:

Lab 1	Lab 2
276	318
270	287
265	285
300	262
280	296

The (population) mean cholesterol levels reported by Lab 1 is less than the (population) mean cholesterol levels reported by Lab 2? Test this at 10% level of significance.







Show transcribed image text

Expert Answer ①



Anonymous answered this 122 answers

Was this answer helpful?





 \equiv

Chegg Study Textbook Solutions Expert Q&A Practice

Study Pack

Blood Compres + specy Required information is given by, Label > 276 270 265 300 280
Label > 318 287 285 262 296 I we have to obtained Mean and Landord deviations for Lable and Labe ils, y Lab 1: 2) Mean is, N = IN ·)|
= (276+270+265+300+280)
5 $=\frac{1391}{5}$ $\overline{X}_{1}=348.2$ => istandard deviation is (S1 = (D+1) $(S_{1} = \frac{(S_{1} - 2+8 \cdot 2)^{2} + (2+6 - 2+8 \cdot 2)^{2} + (2+6 - 2+8 \cdot 2)^{2}}{(S_{1} - 2+8 \cdot 2)^{2} + (2+6 - 2+8 \cdot 2)^{2}} + (2+6 - 2+8 \cdot 2)^{2}}$ =[181.2 =[13.4610]

ب لعلى ز-=) Mean is, $\overline{\chi} = \frac{\Sigma \chi}{\Omega}$ $= \frac{\Sigma (318+087+262+296)}{5}$) Glandord deviation is $S_{2} = \left[\frac{\sum [x_{1}^{2} - \overline{x}_{2}]^{2}}{(2+1)^{2}}\right]$ [(318-289.6]+[281-289.6]2+[285-289.6]2+[262=289.6] +[296-289-6]-(5-1)

≡ Chegg Study Textbook Solutions Expert Q&A Practice

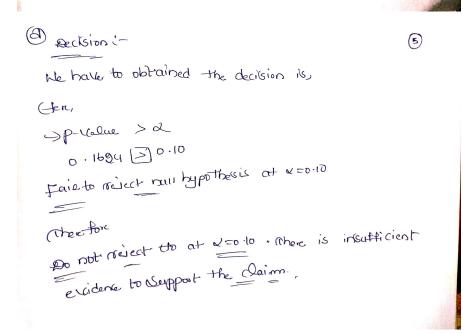
Study Pack 🛑 🗸

=
$$\sqrt{49}$$

= $\sqrt{409}$ $\sqrt{3}$
 $\sqrt{52}$ = 20.201
 $\sqrt{1}$ = 248.2 $\sqrt{2}$ = 289.6
 $\sqrt{1}$ = 248.2 $\sqrt{2}$ = 20.201
 $\sqrt{1}$ = 5 $\sqrt{2}$ = 20.201
 $\sqrt{2}$ = $\sqrt{2}$ $\sqrt{2}$ = $\sqrt{2}$ $\sqrt{2}$

≡ Chegg Study Textbook Solutions Expert Q&A Practice

Study Pack 🛑 🗸





Chegg Study Textbook Solutions Expert Q&A Practice





Practice with similar questions

Q: 5) Blood samples of 5 people were sent to each of two laboratories (Lab 1 and Lab 2) for cholesterol determinations. The resulting data are summarized here: Lab 1 276 270 265 300 280 Lab 2 318 287 285 262 296 The (population) mean cholesterol levels reported by Lab 1 is greater than the (population) mean cholesterol levels reported by Lab 2? Test this at 10% level of significance...

A: See answer

Up next for you in Statistics and Probability

Q1. Industrial engineers periodically conduct "work

measurement" analyses

See answer

Use Excel to calculate different statistical measures. You must include excel

c. An economist is interested in the relationship between the disposable in a family and the amount of money spent annually nodo. For a prelim dy, the economist takes a random sample of TEN middle-income families of me size father, mother, two children). The results are as follows, where x de sposable income. In thousands of dollars, and y denotes food expenditundreds of take.

- x 30 36 27 20 16 24 19 25 20 34 y 35 30 42 40 37 26 39 43 40 51

See answer

See more questions for subjects you study

COMPANY~

LEGAL & POLICIES

CHEGG PRODUCTS AND SERVICES

CHEGG NETWORK

CUSTOMER SERVICE~





© 2003-2021 Chegg Inc. All rights reserved.