

B. Latex Paint

The quality of latex paint is monitored by measuring different characteristics of the paint. One characteristic of interest is the particle size. Two different types of disc centrifuges (JLDC, Joyce LoebI Disc Centrifuge, and the DPJ, Dwight P. Joyce Disc) are used to measure the particle size. It is thought that these two methods yield different measurements. Thirteen readings were taken from the same batch of latex paint using both the JLDC and the DPJ discs.

Test at the 0.05 level for any statistically significant differences.

Data found here:

<http://dcs.adnu.edu.ph/~neithan/xiphias/inputfiles/latex.csv>

Provide the values / answers in the following format:

```
n(JLDC) =  
n(DPJ) =  
df(JLDC) =  
df(DPJ) =  
mean(JLDC) =  
mean(DPJ) =  
var(JLDC) =  
var(DPJ) =  
tails =  
significance level =  
confidence level =  
cv =  
t-value =  
  
Decision / Conclusion:
```