

| Hypothesis testing Based on different statements | | | | | | | | | |
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| Matter of Concern: Attrition of employees | | | | | | | | | |
| 1st statement | Attrition takes place whose work in the company is less than equal to 6 years | | | | | | | | |
| Solution: | | | | | | | | | |
| Step 1: | As you can see the null hypothesis is $H_0 \leq 7$ so it is a left aligned one tail hypothesis, alternate hypothesis $H' > 7$ | | | | | | | | |
| Step 2: | As the Alpha value is not provided lets take it is correct about 95% so $\alpha = 0.05$ and degree of freedom $= (24-1) = 23$ | | | | | | | | |
| Step 3: | Calculation $ X' - u = 7.008163 - 6 = 1.008163$ s.d. value= 6.125135 s.d / root(n)=1.28 test value=0.787 Table -value=1.71 (rejection region in the left side) | | | | | | | | |
| Conclusion: | As the test value is under the rejection region then the assumption we take is wrong. | | | | | | | | |

