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STAT1221

Homework #1

MINITAB Results

16)

Two-Sample T-Test and CI: C1, C2

Method

|  |
| --- |
| μ₁: mean of C1 |
| µ₂: mean of C2 |
| Difference: μ₁ - µ₂ |

*Equal variances are assumed for this analysis.*

Descriptive Statistics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sample | N | Mean | StDev | SE Mean |
| C1 | 7 | 140.4 | 15.4 | 5.8 |
| C2 | 6 | 143.0 | 16.6 | 6.8 |

Estimation for Difference

|  |  |  |
| --- | --- | --- |
| Difference | Pooled StDev | 95% CI for Difference |
| -2.57 | 15.98 | (-22.13, 16.99) |

Test

|  |  |
| --- | --- |
| Null hypothesis | H₀: μ₁ - µ₂ = 0 |
| Alternative hypothesis | H₁: μ₁ - µ₂ ≠ 0 |

|  |  |  |
| --- | --- | --- |
| T-Value | DF | P-Value |
| -0.29 | 11 | 0.778 |