Homework 2: SAS and Typesetting

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Abstract

Your homework is to learn to run SAS, and copy portions of printout into a professional-looking manuscript. Learn the proper use of sections and headers to organize information, and display important results in tables and figures.

1 Instructions

Using the data from Homework 1, run Proc Means and Proc Reg by modifying the SAS code in your handout. Cut-and-paste or import portions of output into your favorite document typesetting environment. This document was created in Latex.

2 Summary Statistics

Table 1 contains the result of Proc Means for the two variables Lot Size and Cost.

Table 1: Summary Statistics from SAS

The MEANS Procedure

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>Std Dev</th>
</tr>
</thead>
<tbody>
<tr>
<td>size</td>
<td>25</td>
<td>70.0000000</td>
<td>28.7228132</td>
</tr>
<tr>
<td>hours</td>
<td>25</td>
<td>312.2800000</td>
<td>113.1376448</td>
</tr>
</tbody>
</table>

3 Regression

Table 2 contains the slope and intercept estimates for predicting cost of correction given the number of galleys.
Table 2: Summary Statistics from SAS

The REG Procedure
Dependent Variable: hours

Number of Observations Read  25
Number of Observations Used   25

| Variable | DF | Estimate | Error | t Value | Pr > |t| |
|----------|----|----------|-------|---------|------|---|
| Intercept| 1  | 62.36586 | 26.17743 | 2.38  | 0.0259 |
| size     | 1  | 3.57020  | 0.34697 | 10.29 | <.0001 |

4 Additional Comments

A lot of issues in typesetting (centering, font size and type, etc.) are necessarily a matter of taste rather than correctness. The homework is intended to prepare us early for the data analysis reports.