

A Second Course in Statistics: Regression Analysis 7th (seventh) edition

Solutions Manual for A Second Course in Statistics Regression Analysis 6th Edition by Mendenhall Sincich

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3.6 Summary calculations yield:

$$\begin{aligned} \sum x &= 21 & \sum x^2 &= 91 & \bar{x} &= \frac{21}{6} = 3.5 \\ \sum y &= 18 & \sum y^2 &= 68 & \bar{y} &= \frac{18}{6} = 3 & \sum xy &= 78 \end{aligned}$$

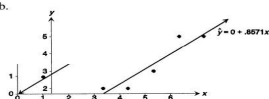
a. $SS_{xx} = 1 - n(\bar{x})^2 = 91 - 6(3.5)^2 = 91 - 73.5 = 17.5$

$SS_{yy} = 2 - n\bar{y} = 78 - 6(3.5)(3) = 78 - 63 = 15$

$\hat{\beta}_1 = \frac{SS_{xy}}{SS_{xx}} = \frac{15}{17.5} = .8571$

$\hat{\beta}_0 = \bar{y} - \hat{\beta}_1\bar{x} = 3 - (.8571)(3.5) = 0$

b.



3.8 a. The straight-line model is $y = \beta_0 + \beta_1 x + \varepsilon$.

b. Yes. The data form a rather straight line from the lower left of the plot to the upper right.

c. The fitted model is $\hat{y} = 20.9 + 1.07x$.

d. $\hat{\beta}_0 = 20.9$. The mean sale price when the appraised value is 0 is estimated to be 20.9 or \$20,900. Since $x = 0$ (appraised value = 0) is not in the observed range, this value has no meaning.

e. $\hat{\beta}_1 = 1.07$. For each unit (\$1,000) increase in appraised value, the mean sale price is estimated to increase by 1.07 (\$1,070).

f. $\$300,000 \Rightarrow x = 300$
 $\hat{y} = 20.9 + 1.07(300) = 341.9$. The estimated mean sale price for a house appraised at \$300,000 is \$341,900.

3.10 a. Yes. For the men, as the year increases, the winning time tends to decrease. The straight-line model is $y = \beta_0 + \beta_1 x + \varepsilon$. We would expect the slope to be negative.

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