

7. Find the residual for the 80 inch tall player. In the most recent game he actually played for 35 minutes. (2 points)

Residual = actual - predicted  
 $y - \hat{y}$

$y - \hat{y}$   
 $35 - 27.858 = 7.142$

"We underestimated minutes played for an 80 inch tall player by 7.142 minutes."

8. Interpret the meaning of the slope in complete sentences, in context (3 points)

Based on the LSRL, for each additional inch of height, the predicted number of minutes played decreases by about 2.0375 minutes.

OR Based on the model, for every additional inch taller a player is, their predicted playing time decreases by about 2.0375 minutes.

9. Interpret the meaning of the y-intercept in complete sentences, in context (3 points)

According to the model, if a player is 0 inches tall, then their predicted playing time is 190.858 minutes. This is unrealistic, as a player cannot be 0 inches tall.

10. Interpret the meaning of the coefficient of determination,  $R^2$ , in complete sentences, in context (3 points)

According to this data, 88.31% of variation in minutes played can be explained by variation in height. Other factors may include skill level or how what position a player plays.

OR 88.31% of the variation in minutes played can be explained by the linear model (with height).

Part II: A philosophy professor has found a correlation of 0.80 between the number of hours students study for his exams and their exam performance. During the time he collected the data, students studied on average of 10 hours with a standard deviation of 2.5 hours, and scored an average of 80 points with a standard deviation of 7.5 points.

Write the equation of the line of best fit that can predict score based on hours studied. Be sure to define any variables. (4 points)

$b = r \frac{S_y}{S_x} = .80 \left( \frac{7.5}{2.5} \right)$   
 $= .80 (3) = 2.4$

exam	
hrs study	
X	Y
$\bar{x} = 10$	$\bar{y} = 80$
$S_x = 2.5$	$S_y = 7.5$

$\hat{y} = a + bX$   
 $80 = a + 2.4(10)$   
 $80 = a + 24$   
 $-24 \quad -24$   
 $56 = a$

$\hat{y} = 56 + 2.4x$   
 $x = \text{hrs studied}$   
 $\hat{y} = \text{exam score}$   
 OR  
 $\hat{\text{exam score}} = 56 + 2.4(\text{hrs studied})$

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