

Chuwakemi Omatondo

Chapter 5 Work

9.20. High School and Beyond:

e) $\bar{x}_{\text{read}} - \bar{x}_{\text{write}} = -.545$

SD = 8887 pts

$n = 200$

$SE = \frac{s}{\sqrt{n}} = \frac{8887}{\sqrt{200}} = .6284$

$T = \frac{\bar{x}_{\text{diff}} - 0}{SE_{\bar{x}_{\text{diff}}}} = \frac{-.545 - 0}{.6284} = -.8673$

$df = n - 1 = 200 - 1 = 199$

5.48 Work hours & education

df. degree = $K - 1 = 5 - 1 = 4$

df. residuals = $n - K = 1172 - 5 = 1167$

$MSG = \frac{1}{df_g} SSG = \frac{1}{4} (2004.11)$

$MSG = 501.03$

$MSE = \frac{1}{df_E} SSE$

$= \frac{1}{1167} (267373.647)$

=

$MSE = 229.1119$

$F = \frac{MSG}{MSE} = 2.19$

$4MS = (121.38.67 - 40.45)^2$
 $= 383.38$

$HS = 546(39.6 - 40.45)^2$
 $= 394.49$

$JC = 97(41.39 - 40.45)^2$
 $= 85.71$

$B = 253(42.55 - 40.45)^2$
 $= 1115.73$

$G = 155(40.85 - 40.45)^2$
 $= 24.8$

$SSG = 24.8 + 1115.73 + 85.71 + 394.49$
 383.38

$SSG = 2004.11$