- 159. A
- 160. D
- 161. C
- 162. D
- 163. A
- 164. POPULATION SIZE
- A) As the height of a 18 to 29 year old male increases by 1 inch, we expect the true mean weight of the males to increase by 6 pounds. B) 182 pounds C) 178 182 = -4 D) .5041 E) 50.41 percent of the variation in weights of males aged 18 to 29 years can be explained by the least squares regression line of weight in pounds on height in inches.
- 166. C
- 167. C
- 168. A
- 169. TRUE
- 170. TRUE
- 171. D
- 172. C
- 173. N/A
- 174. B
- 175. A
- 176. A 177. D
- 177. D 178. FALSE
- 179. C
- 180. D
- 181. B
- 182. A) .7660 B) 17.059 inches C) (0.7967,1.1293) D) We are 95% confident that as shark jaw width increases by 1 inch, we expect the true mean shark length to increase by between 0.7967 and 1.1293 feet. E) H<sub>0</sub>:  $\beta_1 = 0$ ; H<sub>a</sub>:  $\beta_1 \neq 0$  F) reject H<sub>0</sub> G) The confidence interval (0.7967,1.1293) does not contain the value 0, therefore we reject.
- 183. A) Eruption = 47.396 + 0.1797 Duration B) 92.3210 minutes C) 92 92.3210 = -0.3210 minutes D) As the duration of the eruption time increases by 1 second, we expect the true mean time after the eruption to increase by 0.17967 minutes. E) H<sub>0</sub>:  $\beta_1 = 0$ ; H<sub>a</sub>:  $\beta_1 \neq 0$