

Stats Predicted Paper 1 Solutions

Q1 (a) Better to take a random selection not first 10. Measured in Decimeters.

(b) By calc $y = 12.03 - 0.1546x$

(c) $h = 20 = 12.03 - 0.1546(\frac{x}{100})$

$$h = 92.03 - 0.001546v$$

$$\text{Estimate: } 22 = 92.03 - 0.001546v$$

$$\Rightarrow v = 64.88 \text{ Decimeters}$$

(a)

$$H_0: \rho = 0$$

$$H_1: \rho < 0$$

$$n = 10$$

$$r = -0.4387 > -0.4428 \leftarrow \text{from table}$$

Hence value is not critical

Accept H_0 , reject H_1 , insufficient evidence to suggest correlation coefficient is less than zero. This implies that my estimate from (c) is unlikely to be accurate as the points do not lie close to a straight line, so our regression line is unlikely to be that useful for modelling.

Q2 (a) $\frac{10}{22} \times (64.5 - 59.5) + 59.5 = 61.77$ (b) $[(5 \times 49.5) + (10 \times 57) + (22 \times 62) + (13 \times 69.5)] \div 50$

$$= 61.7$$

(c) by calc $\sigma_x = 5.93$

(d) Standard Deviation is likely to increase as the sample is much larger and so will likely have a wider variety of weights.

Q3 (a) If $P(A \cup B) = 0.9$ then $P(A \cap B) = 0.1$



$$\text{As } P(A/B) = \frac{2}{7}$$

$$\text{So } P(B) = 0.35$$

$$\frac{2}{7} = \frac{0.1}{0.1+x} \Rightarrow x = 0.25$$

$$\begin{aligned} \text{(b) } P(A/B) &= \frac{P(A \cap B)}{P(B)} \\ &= \frac{0.35}{0.65} \\ &= \frac{7}{13} \end{aligned}$$

(c)



Q4 $X \sim B(10, 0.55)$

$$\text{(a) } P(X=7) = 0.166$$

$$\text{(b) } P(X=7/X \geq 5) = \frac{P(X=7)}{P(X \geq 5)} = \frac{P(X=7)}{1 - P(X \leq 4)} = \frac{0.166}{1 - 0.266} = 0.225$$

$$\text{(c) } 0.45^3 \times 0.55 = 0.05$$

(d) $X \sim B(100, 0.55)$ Approx to $Y \sim N(55, 2)$ $\mu = 55, \sigma^2 = 2$

$$P(X \geq 51) \approx P(Y \geq 50.5) = 0.817$$

Q5 (a) $X \sim N(25, 4^2)$

$$P(X \geq 32) = 0.04$$

(c) $H_0: \mu = 25$
 $H_1: \mu < 25$

$$\bar{X} \sim N(25, \frac{4^2}{20}) \quad \sigma = \frac{4}{\sqrt{20}}$$

$$P(\bar{X} \leq 23.5) = 0.0468$$

(b)



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S Nieto



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