

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

$h = 92.03 - 0.001546v$

Estimate: $22 = 92.03 - 0.001546v$

$\Rightarrow v = 64.88$ Decimeters

(a) $H_0: \rho = 0$

$H_1: \rho < 0$

$n = 10$

$r = -0.4387 > -0.4428$ ← 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 $P(A \cap B) = 0.1$



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

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

So $P(B) = 0.35$

(b) $P(A/B) = \frac{P(A \cap B)}{P(B)}$
 $= \frac{0.35}{0.65}$
 $= \frac{7}{13}$

(c)



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

(a) $P(X=7) = 0.166$

(b) $P(X=7/X \geq 5) = \frac{P(X=7)}{P(X \geq 5)} = \frac{P(X=7)}{1 - P(X \leq 4)} = \frac{0.166}{1 - 0.2616} = 0.225$

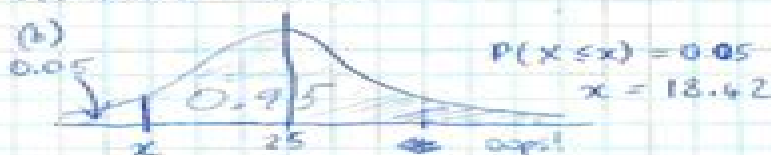
(c) $0.45^3 \times 0.55 = 0.05$

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

$P(X \geq 32) = 0.04$

(b)



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

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

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

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