

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) $h = 20 = 12.03 - 0.1546(\%)$

$h = 92.03 - 0.001546v$

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

So $P(B) = 0.35$

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

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

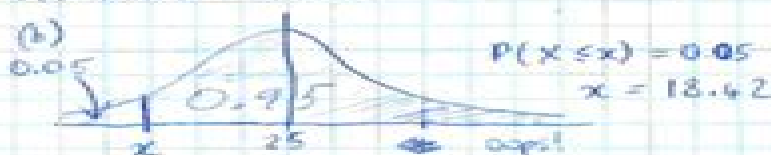
(d) $X \sim B(100, 0.55)$ Approx to $Y \sim N(55, 2)$ $\mu = 55, \sigma^2 = 2$

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

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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concentration differences across all living cells they are the engines that run cells in this text dr lunger develops the principles of physical chemistry required to understand the functions of these macromolecules