

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

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

$P(X \geq 32) = 0.04$

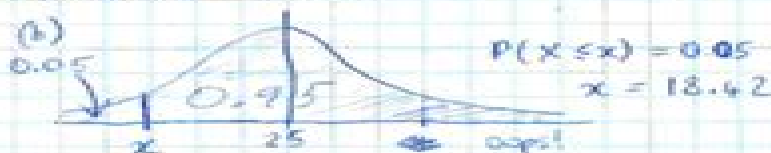
(c)  $H_0: \mu = 25$

$H_1: \mu < 25$

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

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

(b)



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