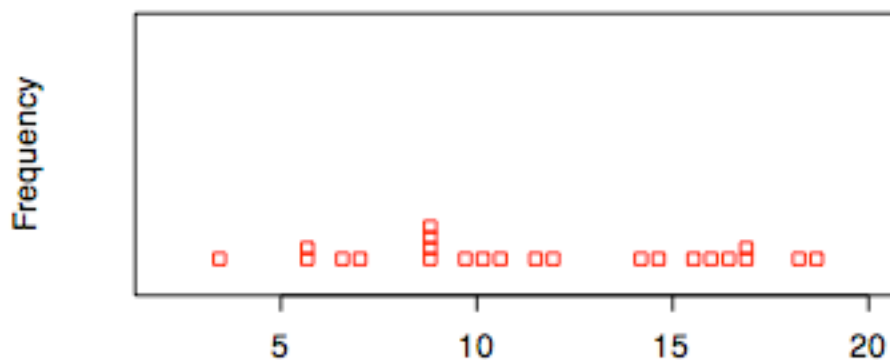
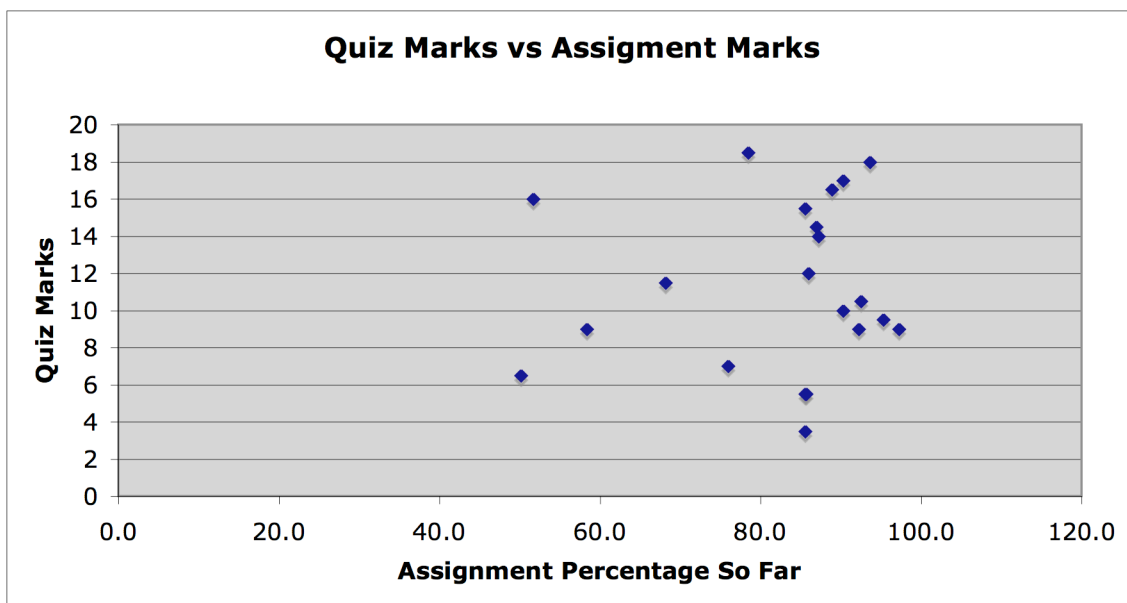


quiz marks out of 24



Quiz Marks vs Assignment Marks



Where were answers to Quiz?

Re Q#1

Jan 10

Note time series (order matters) See Example 1.7 - histogram not useful in this case.

Jan 12

7. What feature of a data set makes a histogram a suitable summary? If **the order of observations has no relevant information** – most time series certainly should not be summarized this way.

Re Q#2 Part i) we **discussed in class more than once**. Part ii) is in Notes Feb 2 and in class.

Re Q#3

Jan 26

Every sequence of length 5 with 3 Hs and 2 Ts can be specified by specifying the order numbers of the 3 Hs. There are five possibilities $\{1,2,3,4,5\}$ and we need to choose 3 of them (without regard to order – just which subset are we choosing). If we had chosen the subset $\{2,3,5\}$ we would have selected THHTH. But there are $C_{3,5}$ ways to select this subset, and so there are $C_{3,5}$ ways to create the length 5 sequence with 3 Hs and 2 Ts. So $P(\text{number of Hs in 5 tosses} = 3) = C_{3,5} \text{ times } p^3(1-p)^2$. The general case is the formula

$$P(X=x) = C_{n,x} p^x (1-p)^{(n-x)} \quad x=0,1,2,\dots,n$$

for the binomial probabilities.

So if $p = .5$ (to make the calculation easy) and $n=5$ then $P(\text{no of Hs} = 3) = C_{5,3} (.5)^3 (1-.5)^2 = 10/32$. Clearly the formula simplifies the calculation. However, the formula is not too difficult to derive or explain, and so **you should know how to do this**.

Re Q#4

Assignment 3 should have prepared you for parts i) and ii). part iii) came out of the discussion on the normal distribution in class.

Re Q#5

Just like Ex 78 of assignment #2.

How to study this course?

Assignments – necessary as coercion to read the text.

Reading more important than answers.

Think of text as an authority with definitions

Lectures – contain explanations that you need to know

Spend time with the notes – marginal notes.

Use the Stat Workshop

Use my Office Hours

Use e-mail to me

Quiz and Midterm – review, understand why mistakes were made, and what you did right