

CNSC 634 fall 2009

Homework 3 Grading Notes

Total possible: 46 points

Stem and Leaf Plot of scores

4		4 1
3		9 8 5 3 3 2 2 1 0 0 0
2		9 6 5 4

For each answer, I look for the presence of certain key concepts in the answer.

Some students think an answer with no factual errors should get full credit. I am looking for a specific answer described at the appropriate level of depth.

A random assortment of facts will not get you any points. I always prefer "I don't know" or "I didn't have time to think about this question" than a list of shallow facts.

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Question 1: 3 points

performance itself is never wrong +1  
measurements can be wrong

- computed incorrectly +1
- wrong metric chosen +1

Question 2: 3 points

1 point each for accuracy, precision, and resolution.

Question 3: 14 points

10 points for correct setup and  
of confidence interval  
2 points for correct solution  
2 points for conversion to time

If you knew to setup the problem as a confidence interval equation, but your equation was wrong, you got 5 points. Yes, there were 14/14 given out for this question.

Question 4: 8 points

For each type of benchmark, I wanted 2 correct advantages and 2 correct disadvantages.

Question 5: 4 points

2 points for a good description of each version of Andahl's Law

Question 6: 4 points

2 pts for 5.5, 2 points for 91%

Question 7 : 10 points total.

$\chi^2$ -statistic computed when  
 $c=10$  +1  
 $c=100$  +1

$\chi^2$  critical value for  $df = 9$  +1  
 $df = 99$  +1

$\rightarrow$  50 samples for  $c=10$  +2  
 $\rightarrow$  500 samples for  $c=100$  +2

disprove / cannot disprove  $H_0$  +2