

Due: Wednesday, February 1st (at the start of class)

## Reading

For Monday, January 23rd, Sections 3.1 through 3.4.

For Wednesday, January 25th, Sections 3.5 and 3.6.

For Monday, January 30th, Sections 4.1 and 4.2.

For Wednesday, February 2nd, Sections 4.3 and 4.4.

## Assignment exercises to hand in

Questions 1 and 2 must be solved in a spreadsheet. Please submit your answers directly to the teaching assistant by e-mail (tyusun at sfu dot ca). All file names should begin: math\_208W\_1171\_hw2\_q1\_ (or q2\_) followed immediately by your family name. Submit at most one .pdf and one Excel file per question in a single e-mail.

1. Exercise 2.22. Note this is among the supplementary exercises and has available a data file so that you don't have to enter the data by hand.

2. Exercise 3.16.

Question 3 requires detailed written answers, typeset in  $\LaTeX$ . You should also provide details of how you solved the problems, by spreadsheet or other means.

Please submit your answers directly to the teaching assistant. As in the previous questions, file names should begin: math\_208W\_1171\_hw2\_q3\_ followed immediately by your family name. Submit at most one .pdf and one Excel file in the same e-mail as used for the previous questions.

3. Case 4.3 from Hillier and Lieberman's "Additional Cases".

## Essay topic

Each student will choose a research article that describes an application of Operations Research. Students are required to consult with the instructor about the selection. Each student should select a different article, and articles will be assigned on a first-come, first-served basis. Please contact the instructor when you have a suitable candidate article.

The suggested source of the article is the journal Interfaces. This journal publishes papers that focus on the practice of Operations Research. Quoting from the journal's Website, "The most appropriate papers are descriptions of the practice and implementation of OR/MS in commerce, industry, government, or education." Note that if you are off-campus, you will need to access Interfaces through the SFU library using student Internet credentials. Unfortunately issues since 2011 are not available at present. Scientific articles from other sources may also be considered on a case-by-case basis.

You are required to select your article by the deadline for this assignment.

## Some other exercises you should try

Additional exercises from Chapters 3 and 4.