How many questions did you complete (a completed question means that all the sub parts were done)? Write your answer as a fraction of the total number of questions **on the very top of your assignment: Example 10/17**

Please answer all questions. Remember this assignment is worth 15/4% and is your second assignment for the course. All statistical computing is to be done in **R** , please note that **MS**=Mendenhall and Sincich, *STATISTICS for science and engineering* 6th edition.

Use RMD and then knit into a HTML. Upload the latest addition of both files to CANVAS before the due date.

PLEASE NOTE: IF THERE IS NO REQUIREMENT TO USE R THEN DON'T USE IT.

Place the following files in the dropbox before 1.00pm

1. RMD document
2. HTML document

All mathematical notation should be done in Latex inside R markdown.

ALL WORKING MUST BE SHOWN IN ORDER TO GET THE FULL MARK VALUE!!

1. **[3 marks] MS 3.36 pg 105-106**

2. **[3 marks] MS 3.52 - pg 111**

3. **[1 marks] MS Theorem 3.1 - pg 113** Prove the theorem in your own words.

4. **[1 marks] MS Theorem 3.2 - pg 114** Prove the theorem in your own words.

5. [**1 marks**] **MS Theorem 3.3 - pg 116** Prove the theorem in your own words.

6. [**1 marks**] **MS Theorem 3.4 - pg 117** Prove the theorem in your own words.

7. [**3 marks**] **MS 4.2 - pg 138**

8. [**4 marks**] **MS 4.12 - pg 143**

9. [**4 marks**] **MS 4.34 - pg 154**

10. [**2 marks**] **MS 4.46 - pg 158**

11. [**2 marks**] **MS 4.54 - pg 162**

12. [**2 marks**] **MS 4.66 - pg 168**

13. [**3 marks**] **MS 4.78 - pg 173**

14. [**4 marks**] **MS 5.2 - pg 191**

15. [**3 marks**] **MS 5.10 - pg 196**

16. [**3 marks**] **MS 5.36 - pg 205**

17. [**5 marks**] **MS 5.38- pg 205**