

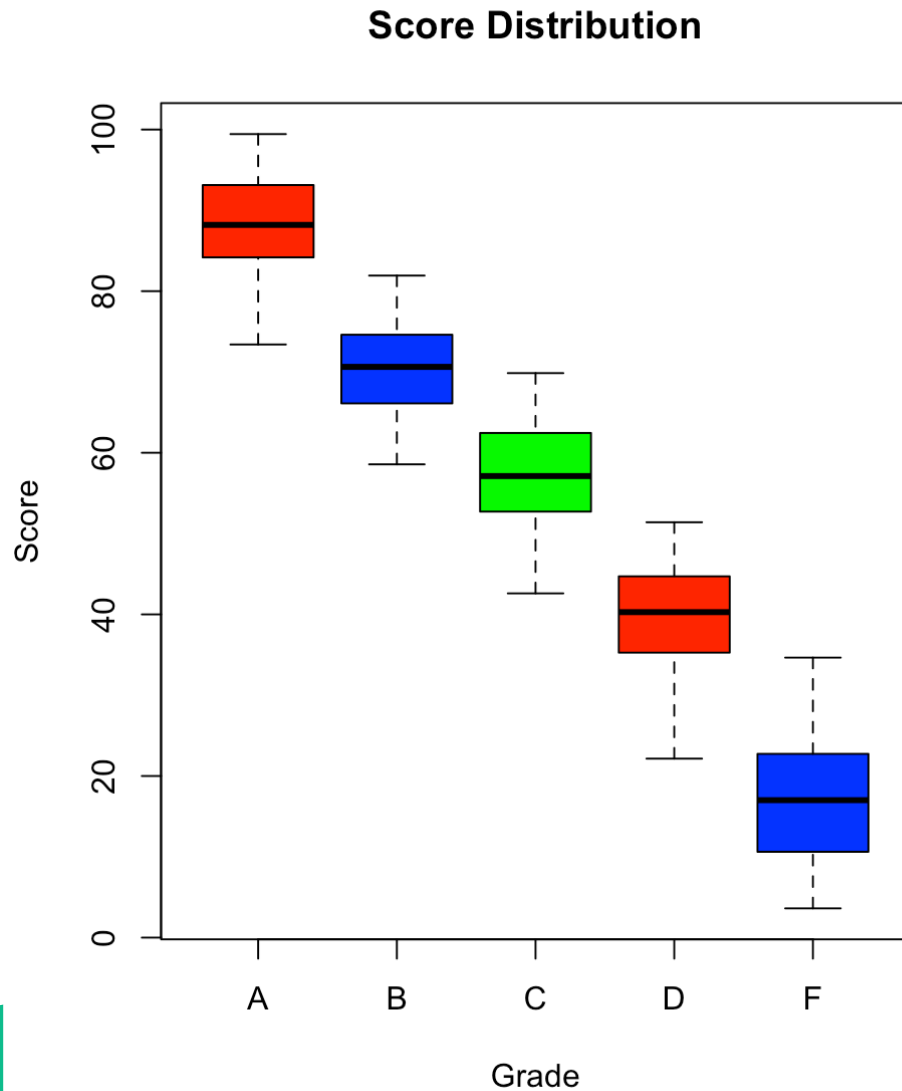
Debugging Professor Moody's Class

By Fauzan A.



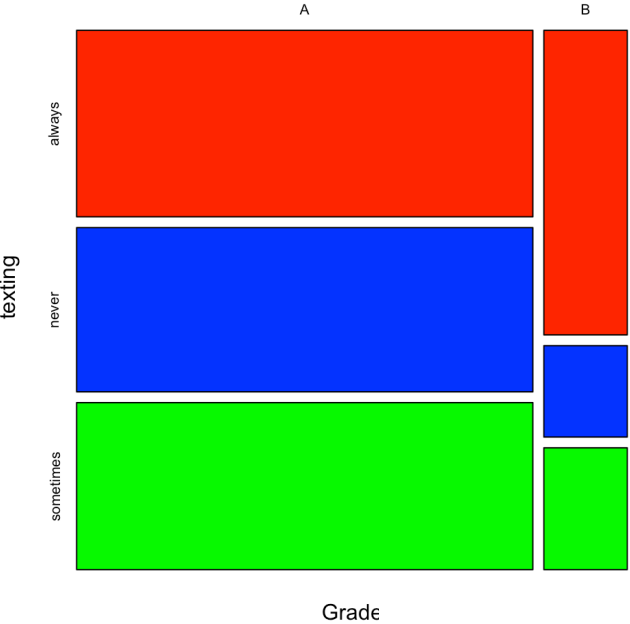
Score Distribution for Each Letter Grade

- The problem with Professor's Moody's class is that numerical grade is not the sole indicator of letter grade.
 - However, we can reason that numeric grade does, at the very least, play a role.
- In order to analyze this further, I made 5 subsets based on each letter grades' respective range.

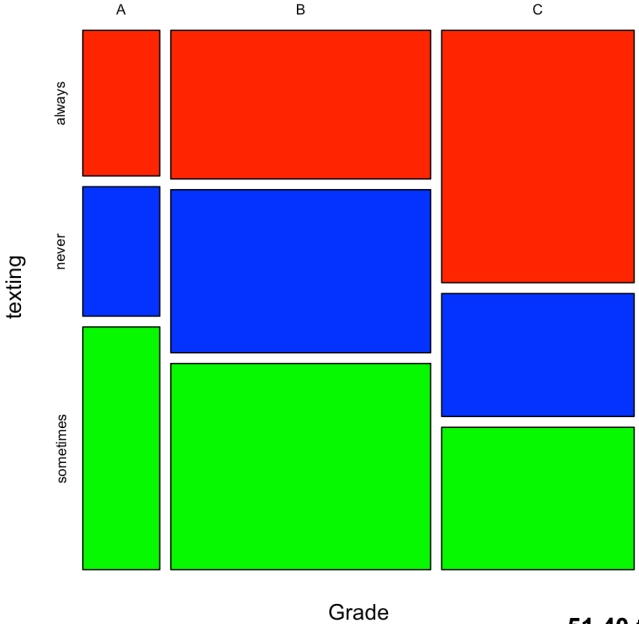


Letter	A	B	C	D	F
Min.	73.40	58.57	42.60	22.14	3.62
Max	99.44	81.93	69.86	51.40	34.65

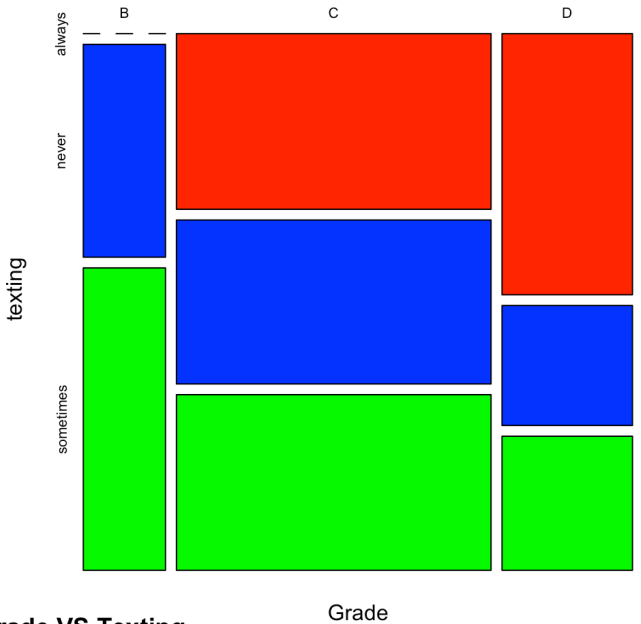
99.4 to 73.40 Range Grade VS Texting



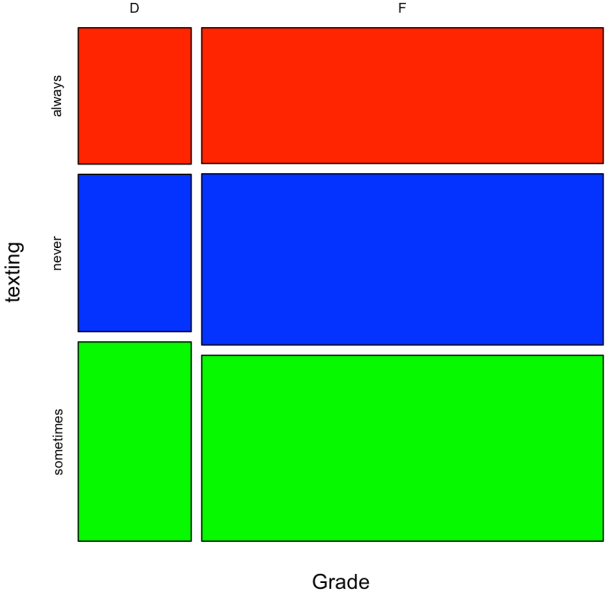
81.93 to 58.57 Range Grade VS Texting



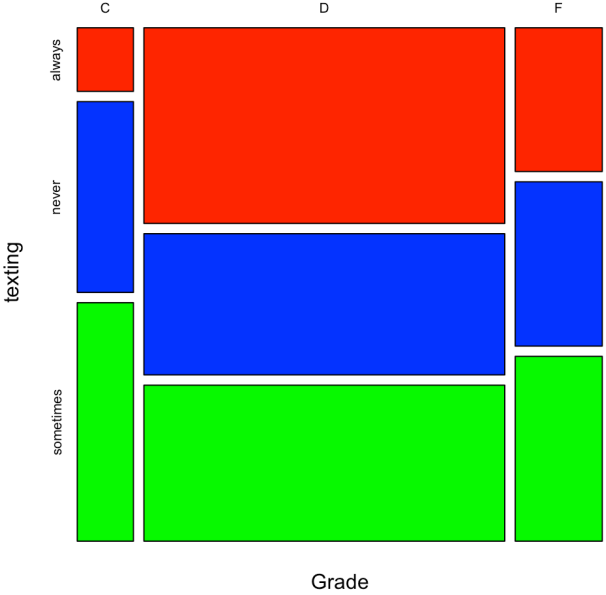
69.86 to 42.60 Range Grade VS Texting



34.65 to 3.62 Range Grade VS Texting



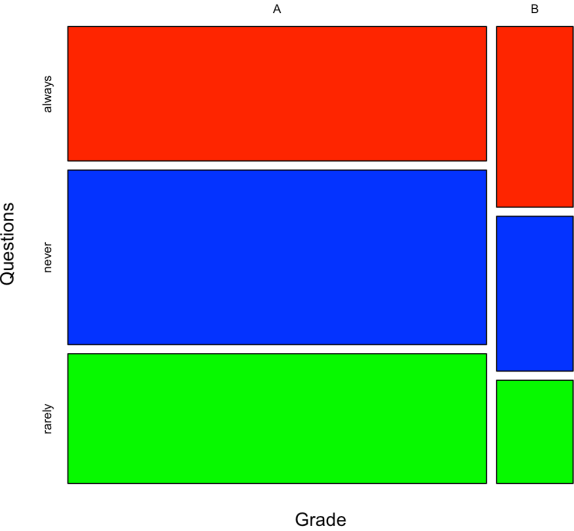
51.40 to 22.15 Range Grade VS Texting



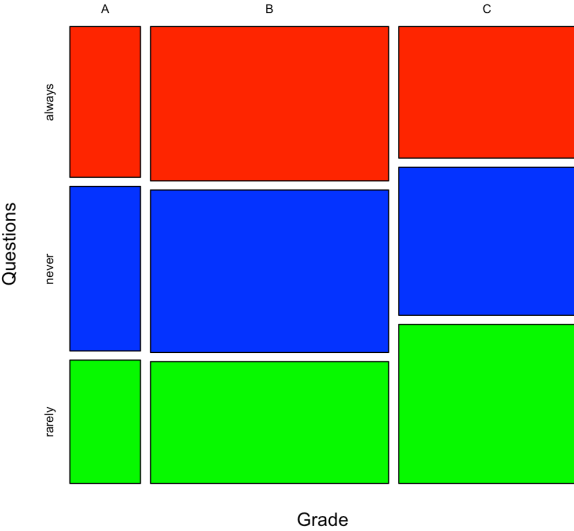
Analysis of Letter Grade vs Texting

- For numerical grades ranging from 73.4 to 99.4, avoid always texting as most B people in this range were always texting. A people in this range have an equal distribution; however, it's likely that the other characteristics favored them.
- For numerical grades ranging from 58.57 to 81.93, avoid always texting and opt for sometimes as most A and B people in this range were sometimes texting.
- For numerical grades ranging from 42.60 to 69.86, your best option is to either never or sometimes text to get a B. Always using your phone in this range will NOT get you a B, but instead will lower your letter grade to either a C or D.
- For numerical grades ranging from 22.15 to 51.40, never or sometimes using your phone will improve your grade; however, if your grade is low and you're always using your phone, you can potentially get a D or F.
- For numerical grades ranging from 3.62 to 34.65, always using your phone can, in some scenarios, make the difference from changing a D to F; however, the distribution between D and F is relatively static.

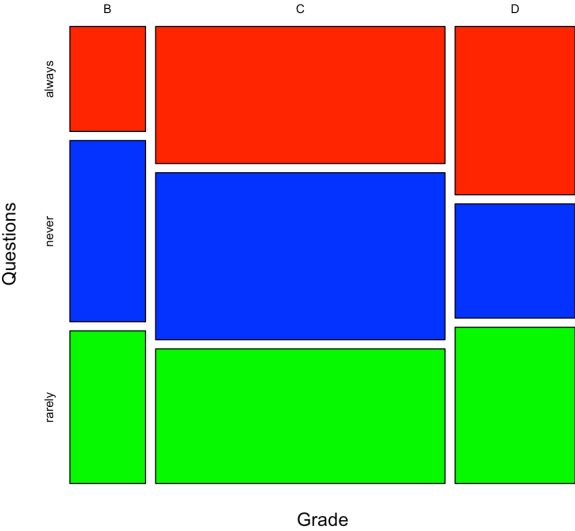
99.4 to 73.40 Range Grade VS Questions



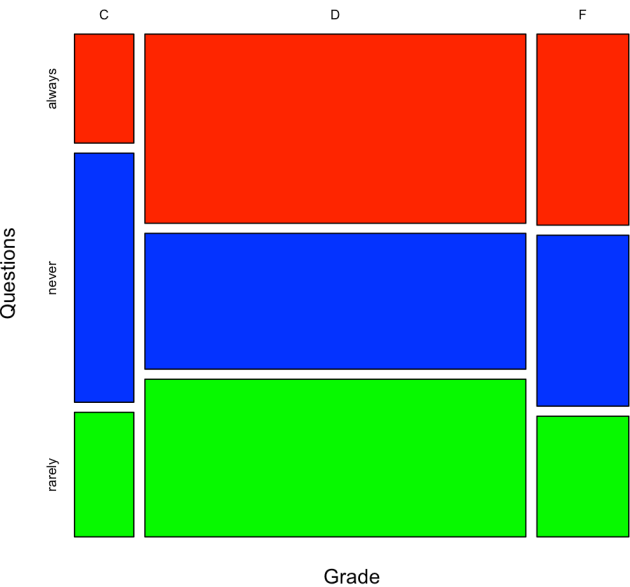
81.93 to 58.57 Range Grade VS Questions



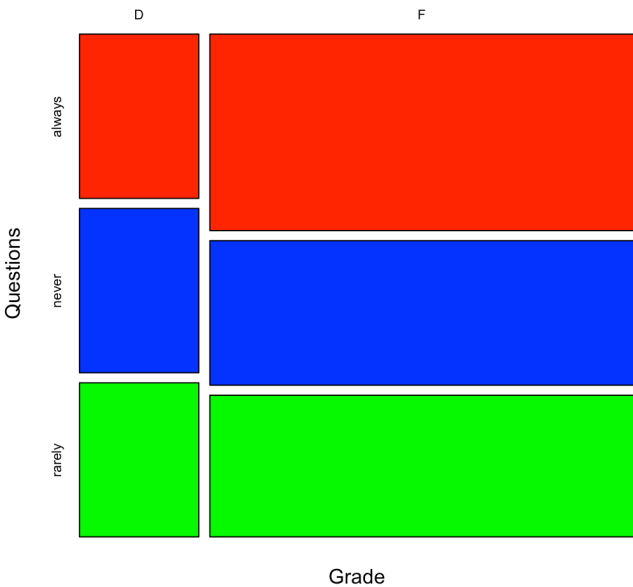
69.86 to 42.60 Range Grade VS Questions



51.40 to 22.15 Range Grade VS Questions



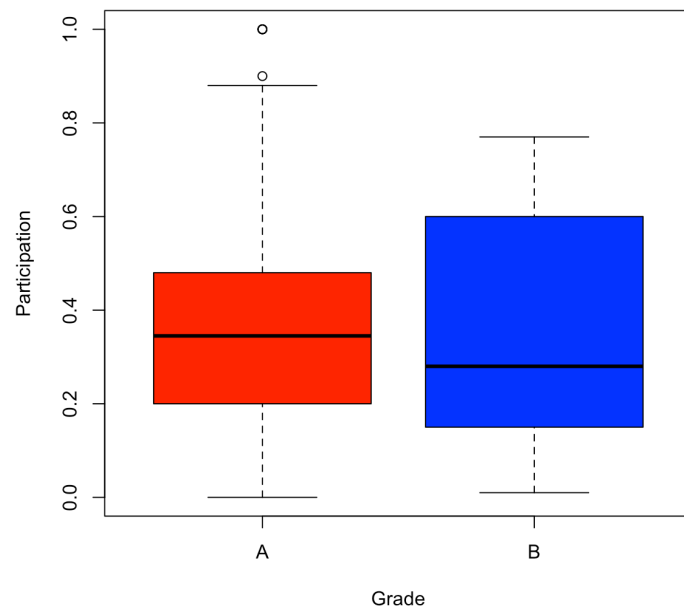
34.65 to 3.62 Range Grade VS Questions



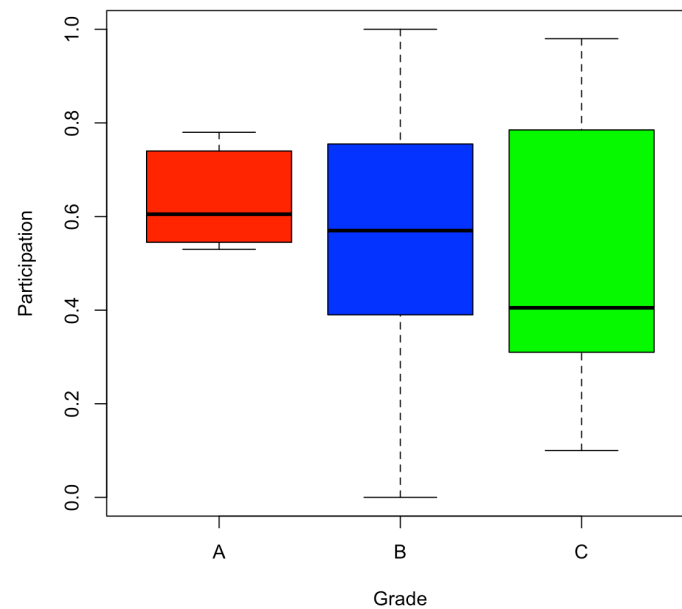
Analysis of Letter Grade VS Questions

- For numerical grades ranging from 73.4 to 99.4, always asking questions may decrease your chances of getting an A and instead increase your chances of getting a B. The distribution is relatively equal for A, so other factors can make a heavy difference.
- For numerical grades ranging from 58.57 to 81.93, the distribution between B and C is rather static; however, try avoiding rarely asking questions, as that'll increase the chances of you getting a D.
- For numerical grades ranging from 42.60 to 69.86, never asking questions will increase your chances of getting a B and avoiding a C or D. Always or rarely asking questions increases your chances of getting a C or D.
- For numerical grades ranging from 22.15 to 51.40, never asking questions can increase your chances of getting a C while always or rarely asking question can increase chances of getting D or F.
- For numerical grades ranging from 3.62 to 34.65, the distribution of D and F is rather static; however, never asking questions can potentially make the difference from an F to a D.

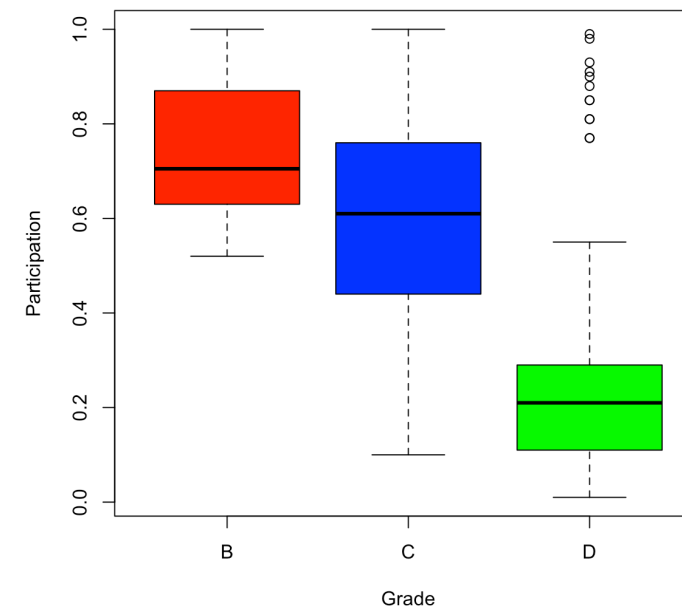
99.4 to 73.40 Range Grade VS Participation



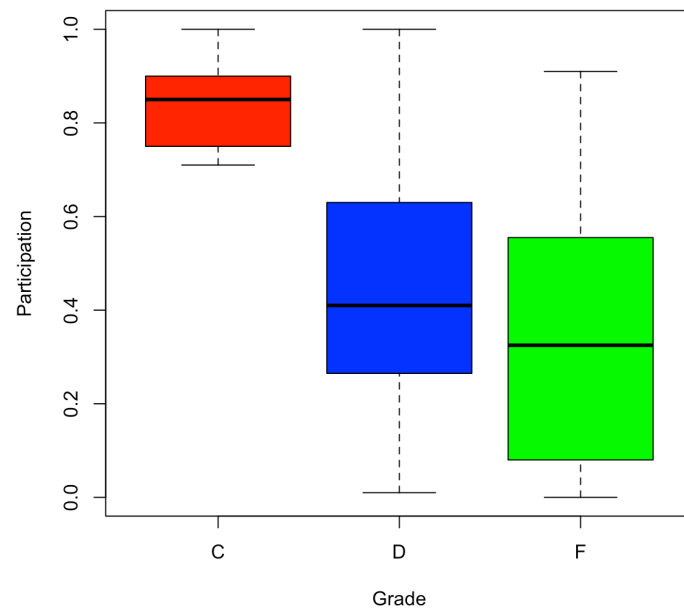
81.93 to 58.57 Range Grade VS Participation



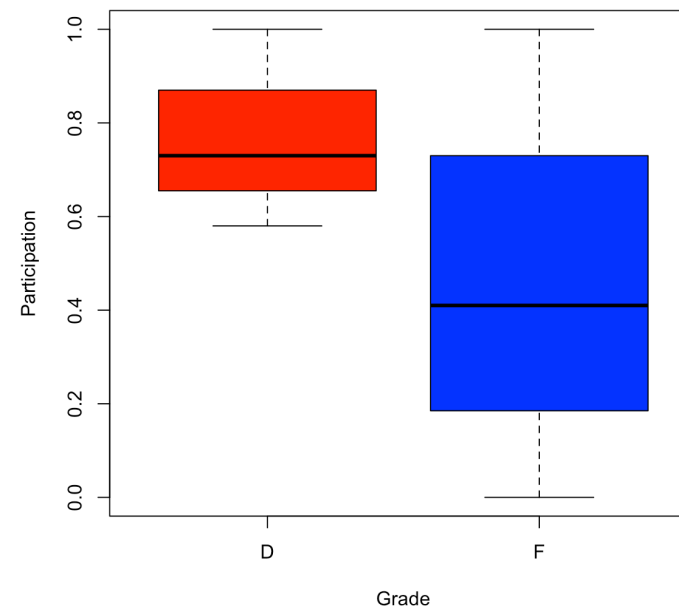
69.86 to 42.60 Range Grade VS Participation



51.40 to 22.15 Range Grade VS Participation



34.65 to 3.62 Range Grade VS Participation



Analysis

- For numerical grades ranging from 73.4 to 99.4, more participation will increase your chances of getting an A while less participation will increase your chances of getting a B. However, there is a fine line in their respective medians.
- For numerical grades ranging from 58.57 to 81.93, in order to qualify for an A, you must have a participation index of 0.5 or higher. Anything lower will likely put you at either a B or C. Some people might have a 0.5 participation index, but other factors play a role.
- For numerical grades ranging from 42.60 to 69.86, having a low participating index gives you a high probability of getting a D, while a higher participation index (0.5 or greater) given you the potential of getting a B or a C.
- For numerical grades ranging from 22.15 to 51.40, aim to have a participation index of 0.8 which will increase your chances of getting a C. Having a lower participation index will increase your chances of getting a D or an F. The lower you go, the lower the letter grade.
- For numerical grades ranging from 3.62 to 34.65, having a low participation index (0.4) increases your chances of getting an F while having a 0.72 participation index still qualifies you for a D.

Summary

- The general consensus regarding participation indexes with respect to your letter grade is that having a higher participation index will increase your chances of getting a higher letter grade while having a low participation index will increase your chances of getting a lower grade.
- With regards to asking questions effect on your letter grade, try your best to never ask questions as that seems to increase your chances of getting a higher letter grade; however, the 58.57 to 81.93 is relatively the same with regards to asking questions.
- With texting, if you're numerical grade is high, texting generally has a minimal impact; however, as your numerical grade decreases, never texting can help.



WHAT TO DO?

NEVER ASK QUESTIONS

PARTICIPATE A LOT TO COMPENSATE FOR YOUR LOW
NUMERIC GRADE

AVOID ALWAYS TEXTING. OPT FOR TO TEXT SOMETIMES.

