



Survey & Experiment Analysis for Cobblestone

Groupe 3E:

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Contents

- Survey questions
- Analysis of program influence on each subject
- Recommendation
- Experiment Improvement

Survey

- 1. How long does it take you to travel from your home to the learning center?
a. Less than 10min b. 10 – 20 min c. 30min +
- 2. Is English your mother tongue?
• a. Yes b. No. c. If not, please choose your most fluent speaking language.
- 3. What is your annual household income?
• a.\$30,000 - \$60,000 b. \$60,000– 90,000 c. \$90,000 - \$120,000
d. \$120,000+ e. Prefer not to answer

Survey

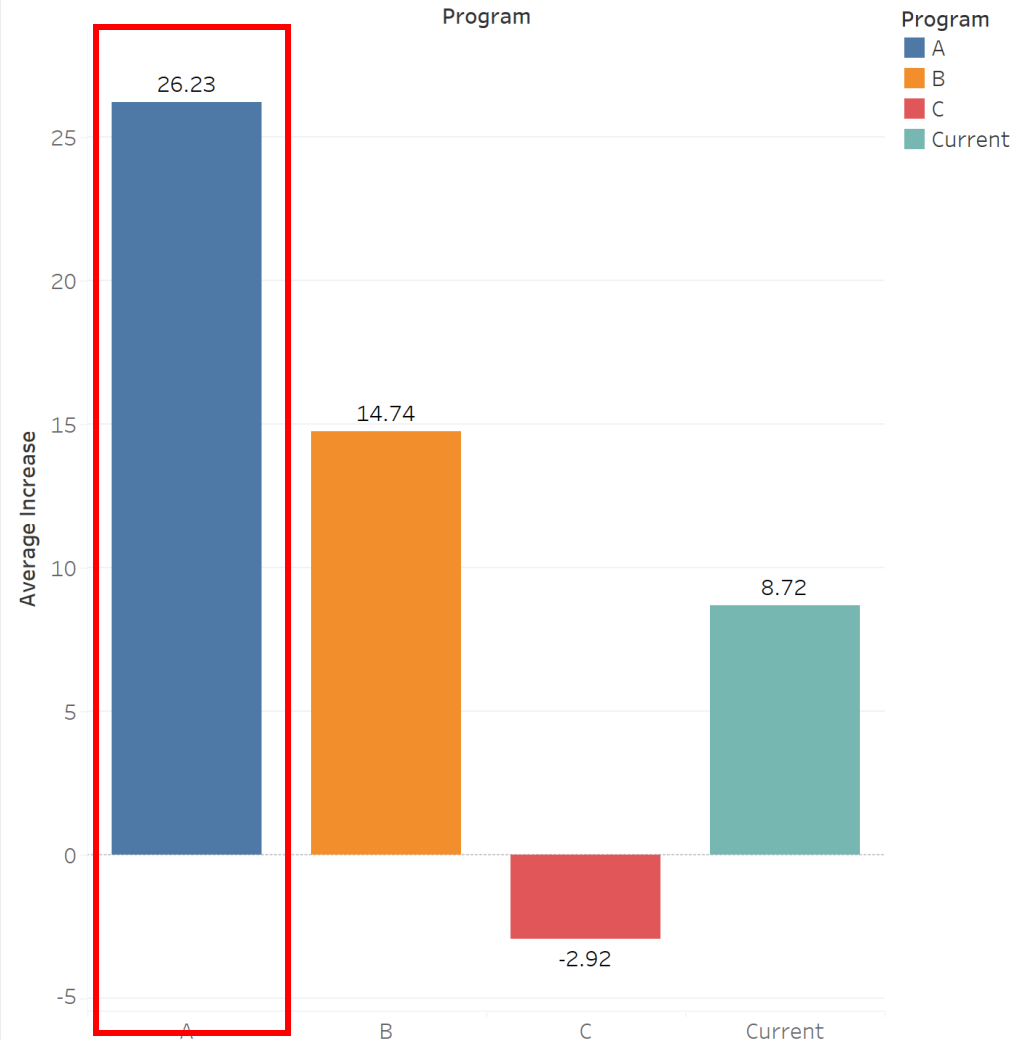
- 4. Do you think Hybrid is a good format of learning for you? Scale from 1 to 10, to being the best.
- 5. On a scale of 1 to 10, 10 being the highest, how beneficial are the online classes for you?
- 6. On a scale of 1 to 10, 10 being the highest, how beneficial are the offline classes for you?
- 7. How long do you think you can fully concentrate on productive learning?
a. 0 – 1 hour b. 1 – 2 hours c. 2-3 hours d. 3 hours +
- 8. How approachable is it for you to get help after class? (Online)
a. Excellent b. Good c. Poor d. Very Poor

Which program do the best in Reading skill improvement

- Program A plays the best in reading score improvement

Program	Number of students
A	1217
B	769
C	661
Current	786

Average improvement of each program in Reading



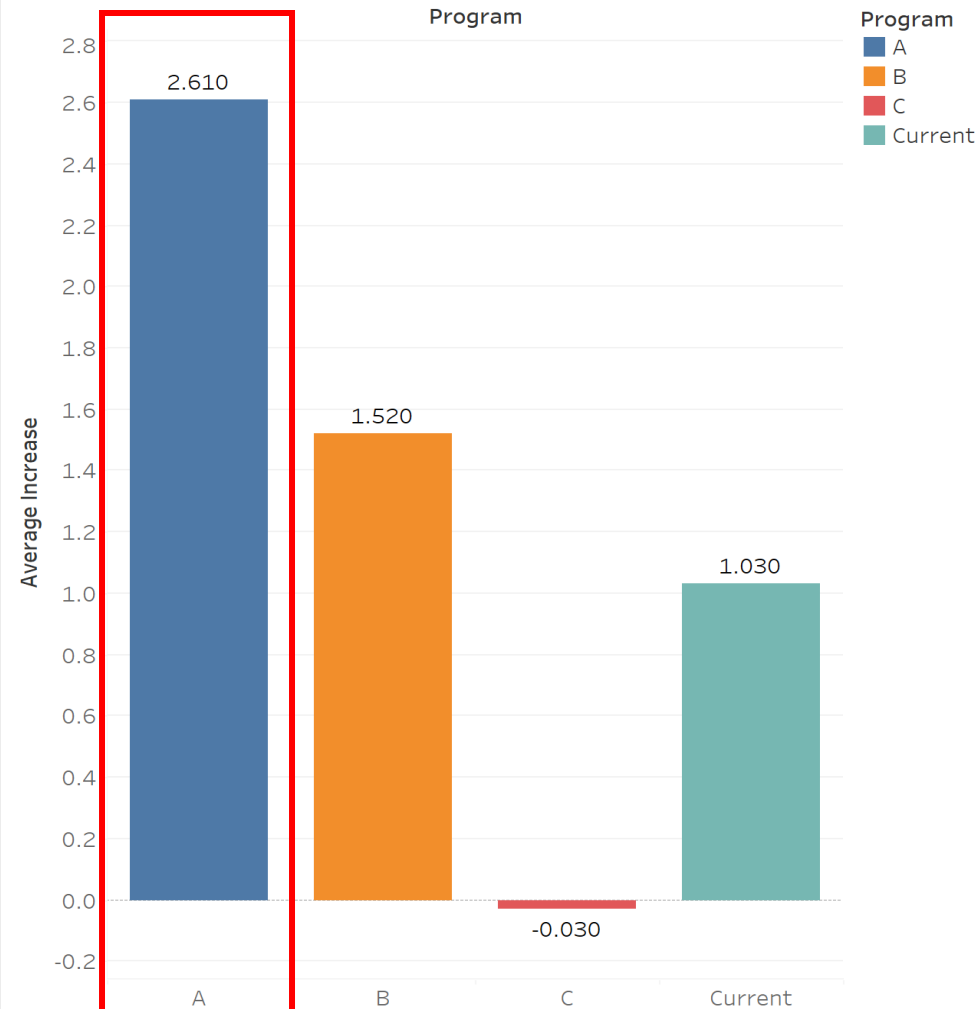
Sum of Average Increase for each Program. Color shows details about Program. The marks are labeled by sum of Average Increase.

Which program do the best in Writing skill improvement

- Program A plays the best in writing score improvement.

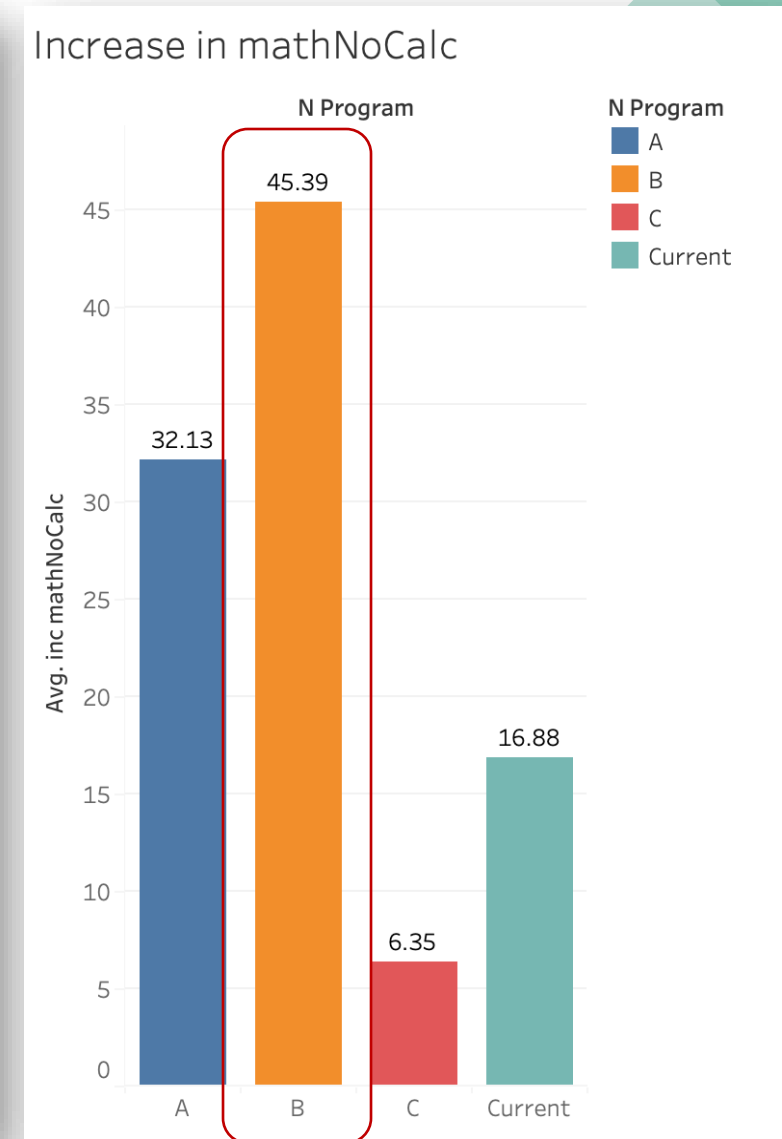
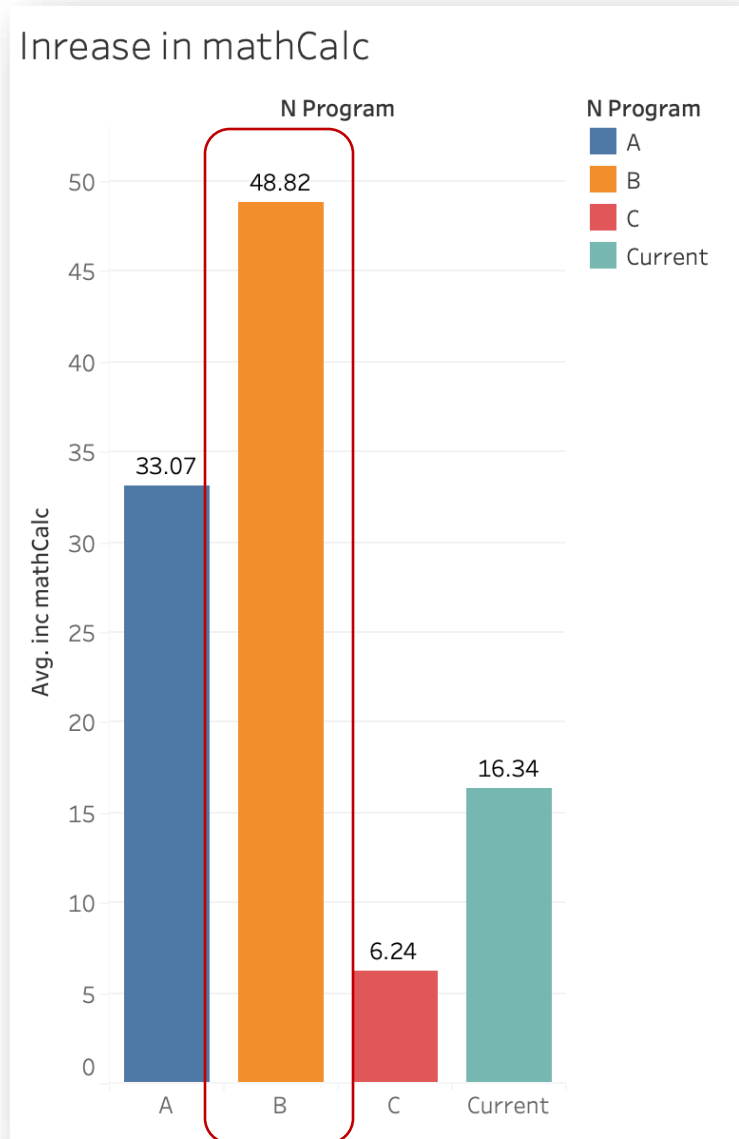
Program	Number of students
A	1217
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average improvement of each program in Writing



Sum of Average Increase for each Program. Color shows details about Program. The marks are labeled by sum of Average Increase.

**Which
program
performs the
best in Math
skill
improvement**



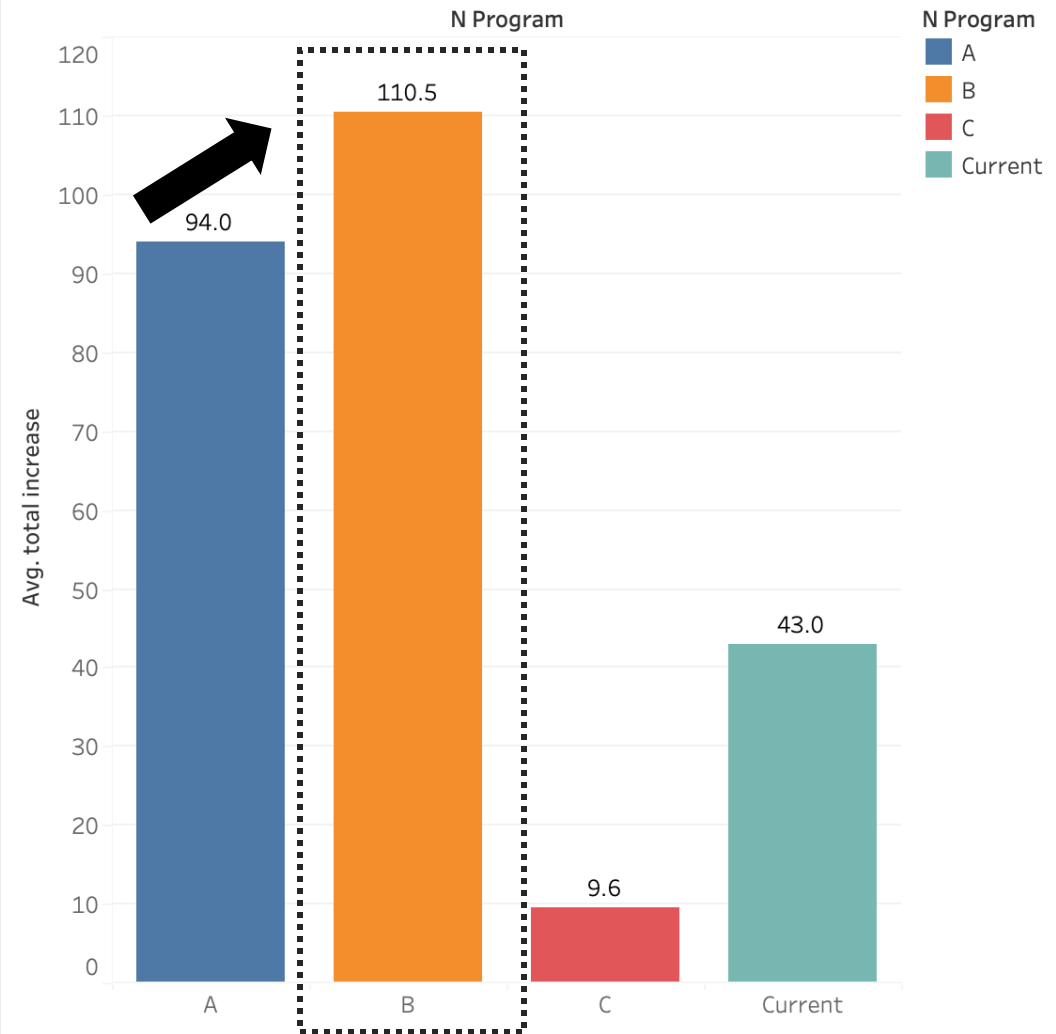
B PROGRAM IS BETTER THAN PROGRAM A

Change in the overall scores

RANK	PROGRAM
1	B
2	A

- Calculate the overall change from all the courses.
- Analyzing its effect on B & A, to see which program performs the BEST.
- **ADOPT PROGRAM B**

Average Total Score Increase



Average of total increase for each N Program. Color shows details about N Program. The marks are labeled by average of total increase.

Conclusions:

Performance of each program

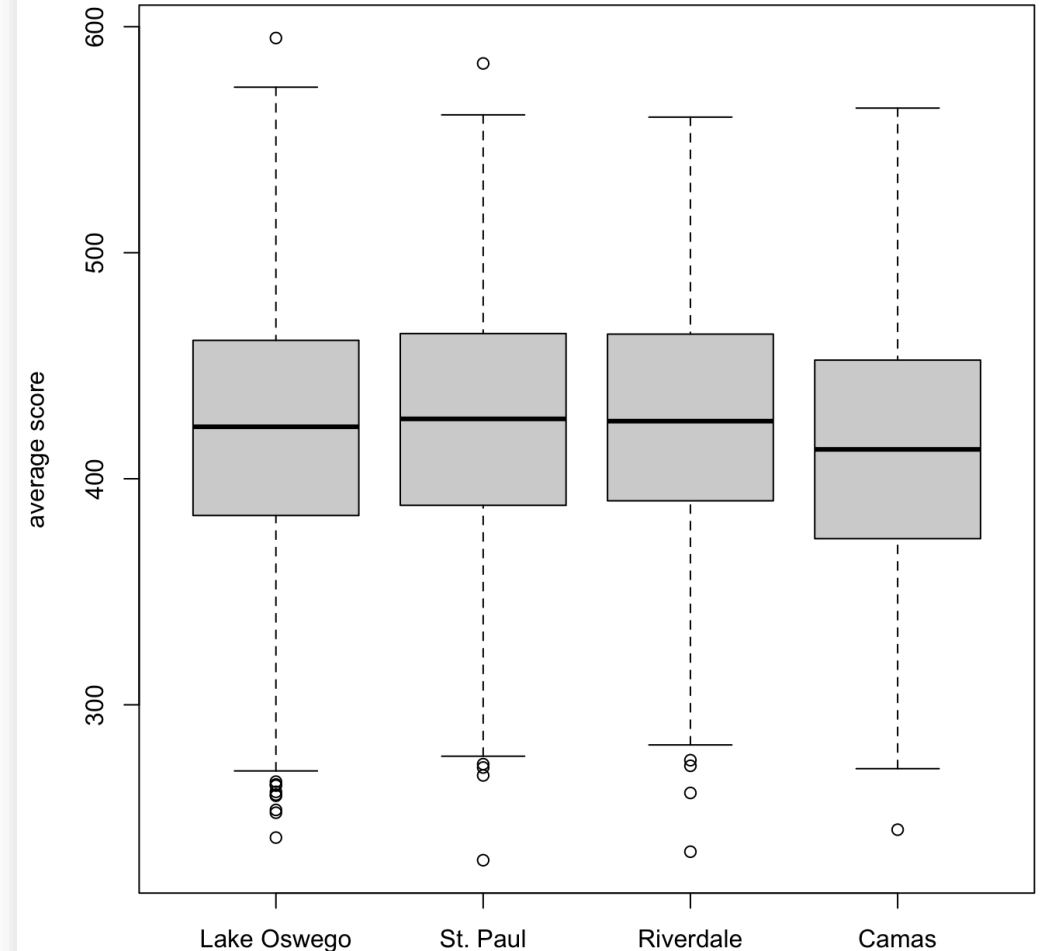
- Program A: Best improvements on reading and writing
- Program B: Best on both math subjects
- Program C: Poor performance in all subjects

Recommendations:

- Implement program A in reading and writing subjects
- Implement program B in math
- If cannot implement program separately, B is the best choice.
- If possible, combine the advantages of A & B to create a new program D, so it can be implemented to all subjects.

Experiment Improvement

- Experiment Randomization: Average Score of Students at Camas is significantly lower than other districts.
- Recommendation:
 - Conduct experiment at one district and assign students to different program randomly.
 - Exclude Program C from next experiment to reduce opportunity cost.
 - Explore the courses in the online market as well to get the better insights.





QUESTIONS?