Codebook for ClassPace Fenton data

Treatment: Dummy variable signifying treatment or control (treatment=1, control=0)

Student survey pretest question variables:

* Q3\_1: Response to student survey question, “I am really good at math.” Scale 1=Strongly disagree, 2=Disagree, 3=Agree, 4=Strongly agree.
* Q3\_2: Response to student survey question, “I understand math.” Scale 1=Strongly disagree, 2=Disagree, 3=Agree, 4=Strongly agree.
* Q3\_3: Response to student survey question, “I can solve difficult math problems.” Scale 1=Strongly disagree, 2=Disagree, 3=Agree, 4=Strongly agree.
* Q3\_4: Response to student survey question, “I do the best I can in math.” Scale 1=Strongly disagree, 2=Disagree, 3=Agree, 4=Strongly agree.
* Q3\_5: Response to student survey question, “Math is fun.” Scale 1=Strongly disagree, 2=Disagree, 3=Agree, 4=Strongly agree.
* Q3\_6: Response to student survey question, “I look forward to learning new math.” Scale 1=Strongly disagree, 2=Disagree, 3=Agree, 4=Strongly agree.
* Q3\_7: Response to student survey question, “I can tell if my answers in math make sense.” Scale 1=Strongly disagree, 2=Disagree, 3=Agree, 4=Strongly agree.
* Q3\_8: Response to student survey question, “I try hard in math.” Scale 1=Strongly disagree, 2=Disagree, 3=Agree, 4=Strongly agree.
* Q3\_9: Response to student survey question, “I like math more this year than I did last school year.” Scale 1=Strongly disagree, 2=Disagree, 3=Agree, 4=Strongly agree.
* Q4\_1\_Post: Response to student survey question

Post-survey question variables

* Q3\_1\_Post
* Q3\_2\_Post
* Q3\_3\_Post
* Q3\_4\_Post
* Q3\_5\_Post
* Q3\_6\_Post
* Q3\_7\_Post
* Q3\_8\_Post
* Q3\_9\_Post
* Q4\_1\_Post

TestRITScore: Student NWEA MAP mathematics score, pre-test

Post\_RIT\_Score: Student NWEA MAP mathematics score, post-test

Teacher Dummy variables

* Teacher1
* Teacher2
* Teacher3
* Teacher4

Demographic Dummy variables:

* Gender: 0=Male, 1=Female
* Non\_white: 0=White, 1=Non-white

Weight: Propensity score matching weight value

PRE\_2: unknown dummy variable

Centered\_pretest: grand centered mean version of PreRITScore

Centered\_gender: grand centered mean version of Female variable

Centered\_non\_white: grand centered mean version of Non\_white variable

Total\_lessons\_complete: Total number of ClassPace lessons completed by students

Class\_score\_percent: Unknwon, unused variable for equations

**Added**

Self\_efficacy\_pre: Mean of Student pre-test questions Q3\_1, Q3\_2, and Q3\_3

Enjoyment\_pre: Mean of Student pre-test questions Q3\_5 and Q3\_6

Effort\_pre: Mean of Student pre-test questions Q3\_4 and Q3\_8

Answersense\_pre: Mean of Student pre-test questions Q3\_7

Selfefficacy\_post: Mean of Student post-test questions Q3\_1, Q3\_2, and Q3\_3

Enjoyment\_post: Mean of Student post-test questions Q3\_5 and Q3\_6

Effort\_post: Mean of Student post-test questions Q3\_4 and Q3\_8

Answersense\_post: Mean of Student post-test questions Q3\_7

**Dropped**

Progress: unknown

Durationinseconds: Time in seconds using ClassPace

Finished: Dummy variable, 0=did not complete ClassPace, 1=Completed ClassPace

RecordedDate: date survey recorded

LocationLatitude: Latitude of survey

LocationLongitude: Longitude of survey

UserLangauge: language of ClassPace used—all were English or missing

Q2: Unknown survey question

ID: Student ID number

Q19: Student open answer to question “Why did you choose your answer to the statement “I like math more this year than I did last school year?””

StartDate: Date started ClassPace

EndDate: Date ended ClassPace

Filter\_$: unneed data cleaning variable

Mehlberg: Dummy variable of having teacher Ms. Mehlberg