

# Using the Descriptive Statistics to Select your Teacher

In this activity, students are given a hypothetical scenario that will require them to select their RM teacher for the next semester based on their own work ethic and classroom / teacher preferences as well as the previous grade results of teachers who taught RM.

**Length**  30 min (Small Problem)

**Prerequisites** Standard deviation, Mean, Skew

**Concepts** Descriptive statistics: mode, median, mean, standard deviation, skew, introduction to Z scores and the normal curve

**Theme** Inequality

**Discipline** Psychology



## Scenario

You just finished your second semester of CEGEP and are thinking about the courses you will need to take for next semester. You just completed the first of the three required methods courses (QM) and will need to take RM next semester. Since RM is a required course and you have been told that it is also difficult and a lot of work, you would like to select a teacher that is right for you.

## What you need to produce and Evaluation grid

The Standard Deviation (2%)	
1. Description of self (~100-150 words)	/ .5
2. Analysis of data (~200-300 words)	/ 1
3. Conclusion (~100-150 words)	/ .5
<b>Total</b>	<b>/ 2</b>

## Breakdown of the question

### Description of self

In ~100-150 words (use bullet points), describe the type of student you are. For example, think about what motivates or hinders your learning, how might the class as a whole impact your own academic performance, etc.



## Analysis of the data

Below is information for the past two and a half years on all the teachers who taught RM and who will also be teaching RM next semester. Teachers with NA did not teach RM in that semester. You are given the average grade for the class, the standard deviation and if the data is skewed (left or right) or not.

Using the data below, write a ~200-300-word report analyzing the data. What does the data suggest about the class performance and teacher? You should interpret the results for each teacher

Teacher Initials	Winter 2017	Fall 2017	Winter 2018	Fall 2018
JS	Average: 76 SD: 5 Skew: No	Average: 75 SD: 4 Skew: Left	Average: 76SD: 6 Skew: No	Average: NA SD: NA Skew: NA
AB	Average: 70 SD: 5 Skew: No	Average: 85 SD: 8 Skew: Left	Average: 80 SD: 10 Skew: Left	Average: 76 SD: 6 Skew: No
RFB	Average: 85 SD: 4 Skew: No	Average: 87 SD: 4 Skew: Left	Average: 86 SD: 3 Skew: No	Average: 85 SD: 2 Skew: No
KL	Average: NA SD: NA Skew: NA	Average: NA SD: NA Skew: NA	Average: NA SD: NA Skew: NA	Average: NA SD: NA Skew: NA
VSD	Average: 62 SD: 14 Skew: Left	Average: 67 SD: 15 Skew: Left	Average: 65 SD: 17 Skew: Left	Average: 59 SD: 18 Skew: Left
CK	Average: 80 SD: 6 Skew: No	Average: 81 SD: 7 Skew: No	Average: NA SD: NA Skew: NA	Average: NA SD: NA Skew: NA

1. **Conclusion:** based on the description of yourself and on the analysis of the data, explain in ~100-150 words which teacher you would select for next semester and why.

