

## Graphing

## Math Academy 1 Worksheet 6-B

1. Find or collect real data or statistics on a topic of your choice, cite them or explain how you collected them, and graph the results in a spreadsheet.
2. As a class, choose a one-week period and decide on an operational definition for sleep time per night. Use February 8-14 and the following operational definition, unless you decide on something else as a class: *Sleep time is the time from when you go to bed and have no light sources (lamp, TV, phone, etc.) until the time you awaken and get out of bed or actively do something (read, use your phone, etc.). In addition, include any other time you are asleep between when you wake up and when you go to bed that night.*
3. Based on the operational definition selected, keep track of your number of hours of sleep each night for the time period chosen.
4. Make a time series plot showing how many hours of sleep you got each of the seven nights. Use a class template (shared by everyone) to make your graph exactly the same as everyone else's in class other than your title and data.
5. Share your data for someone to make a single histogram showing the average number of hours of sleep per night for students in this class.

Be prepared to show your graphs, but you do not need to print or electronically submit anything.