Algebra

Activity 13 Assessment
Using Code to Analyze Data and Make Decisions

Writing Code to Create a Personal Data Analysis Program

Reads and interprets pseudocode and/or code to predict what will happen when a program is run

```
Start
    numNights = 7
    hoursOfSleep = 0
    minimumHours = 24
    repeat numNights
        output "Number of Hours:"
        store user input as hoursOfSleep
        if hoursOfSleep < minimumHours then
            minimumHours = hoursOfSleep
        end if
    end repeat
end program
```

This program asks the user to input the number of hours they sleep each night for 1 week, then determines the minimum number.

Adds blocks to code to further analyze a user's data

I added blocks to determine the maximum, total, and mean number of hours the user sleeps each night.

Finds and fixes errors in code and/or pseudocode

My program wasn't displaying the mean properly. The number was way too big. I looked at my code and saw that I had multiplied the total by the number of days instead of dividing.

Alters code or writes new code to analyze the amount of time a user spends on screens

I started with the Hours of Sleep program that included determining maximum, total, and mean values. All I had to do was change some of the variable names.

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Observations/Documentation

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