Answers

**Algebra**

**Unit 3 Line Master 5j**

**Part 1: Determining the minimum number of hours slept   
in one week**

Yes, the program outputs the minimum number of hours for   
this set of data, which is 6 h.

**Part 2: Determining the maximum number of hours slept**

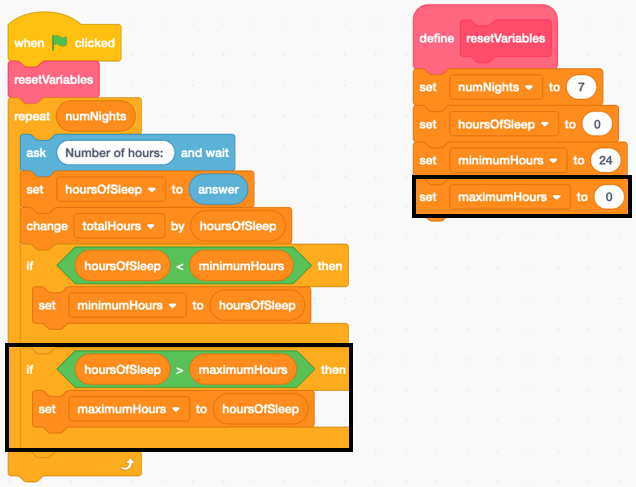
**in one week**

Pseudocode for this is provided in the hints at the end of

the Master.

Sample code after this step is shown here, with the added

blocks outlined in black:



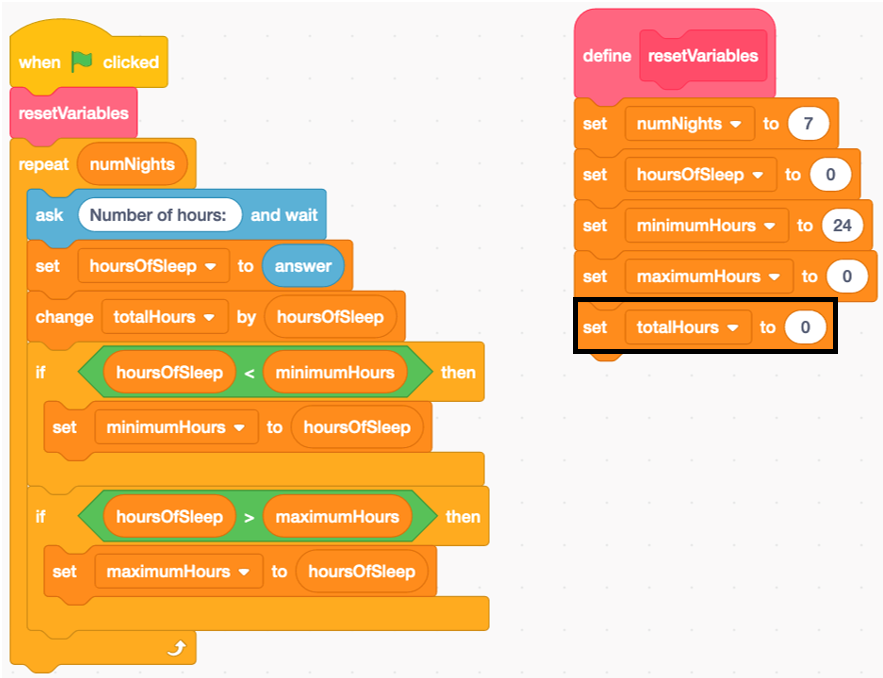
The program outputs the minimum and maximum number

of hours for this set of data. The maximum is 9 h.

Answers (cont’d)

**Algebra**

**Unit 3 Line Master 5k**

**Part 3: Determining the total number of hours slept   
in one week**Pseudocode for this is provided in the hints at the end of   
the Master.  
Sample code after this step is shown here, with the added   
block outlined in black:  


The program outputs the minimum, maximum, and total number of hours for this set of data. The total is 53 h.

Answers (cont’d)

**Algebra**

**Unit 3 Line Master 5l**

**Part 4: Determining the mean number of hours slept   
in one week**

Pseudocode for this is provided in the hints at the end of   
the Master.  
Sample code after this step is shown here, with the added blocks outlined in black:

Diagram

Description automatically generated

The program outputs the minimum, maximum, total, and mean number of hours for this set of data. The mean is 7.571429   
or about 7.6 h.

Answers (cont’d)

**Algebra**

**Unit 3 Line Master 5m**

**Extensions:**

Sample answers for the first and fourth suggested extension are provided below.   
The other extensions are more open and student responses may vary greatly.

* To allow the user to indicate the number of nights of data, students could add these blocks to the main program just after the Reset Variables subprogram is called.  
  Graphical user interface, text, application, chat or text message

  Description automatically generated
* Once a list called userData has been created, a block can   
  be added to the code before the repeat to empty previously saved data and another block can be added within the repeat to add the user’s responses to the list. I moved the list of data to a place on the stage where it wouldn’t cover an important part of the picture. Sample code and a sample list are   
  shown below.  
  Graphical user interface, application

  Description automatically generated Chart

  Description automatically generated with medium confidence