

PROBLEM-OF-THE-DAY: ALGEBRA 1**WEEK:** August 20 to August 24**DAY:** Wednesday

RISD Objective: Given a set of data, students will find the measures of central tendency and the range of the data.

PROBLEM #3

Amelia works at True Burger at the drive-up window. The chart below shows the number of hours Amelia worked each day from the week of October 4 – October 10.

| Oct. 4 | Oct. 5 | Oct. 6 | Oct. 7 | Oct. 8 | Oct. 9 | Oct. 10 |
|---------------|----------------|----------------|---------------|---------------|---------------|----------------|
| 3 | $2\frac{1}{2}$ | $3\frac{1}{2}$ | 2 | 0 | 5 | 4 |

What was the average number of hours per day that Amelia worked? Explain how you got your answer.

MODEL SOLUTION #3

To find the average of a set of data, you add up all the pieces of data and then divide by the number of pieces there are. In this case, I must first add up the seven numbers:

$$3 + 2\frac{1}{2} + 3\frac{1}{2} + 2 + 0 + 5 + 4 = 20$$

Then, I divide the 20 by 7 (since there are seven days in a week).

This gives me $2\frac{6}{7}$. So, Amelia worked on average $2\frac{6}{7}$ hours per day.