Practice for Chapter 6 Section 1. Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1.  Below is a scatterplot that compares Age to how many hours of sleep are recommended.

Complete the following for this scatterplot:

1. Draw a line of best fit
2. Describe the Association, Form, Strength, etc of the graph.
3. What is the equation of your line of best fit?
4. Interpret the meaning of the slope of your line of best fit.
5. Interpret the y intercept.
6. What are the residuals for Ages: 4, 10, and 19?
7. Consider the data below

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Study Hours | 3 | 5 | 2 | 6 | 7 | 1 | 2 | 7 | 1 | 7 |
| Scores on Test | 80 | 90 | 75 | 80 | 90 | 50 | 65 | 85 | 40 | 100 |

* 1. Create a scatterplot of this data
	2. Does this data represent a function? Justify your answer.
	3. Find the line of best fit
	4. Describe the association, form, strength, etc of the graph.
	5. What is the equation of your line of best fit?
	6. Interpret the meaning of the slope and y intercepts
	7. What is the residual for 6 hours of sleep?

