

4.8: Statistical Literacy

Learning Objectives

- relationship between age and sleep

Age and Sleep

The graph below showing the relationship between age and sleep is based on a graph that appears on [this web page](#).

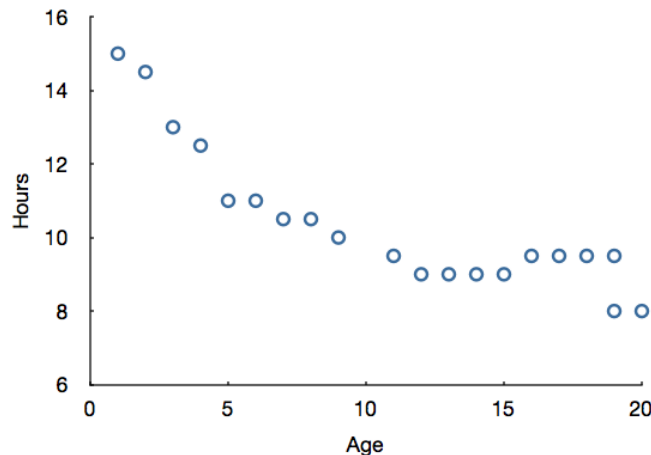


Figure 4.8.1: Graph showing relationship between age and sleep

Example 4.8.1

Based on the graph in Figure 4.8.1 Why might Pearson's correlation not be a good way to describe the relationship?

Solution

Pearson's correlation measures the strength of the linear relationship between two variables. The relationship here is not linear. As age increases, hours slept decreases rapidly at first but then levels off.

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