

“Homework” #1 – Sampling Practice

Write out your response to this problem using complete sentences. Be sure to explain your thinking clearly.

1. **SLEEPLESS NIGHTS** How much sleep do high school students get on a typical school night? An interested student designed a survey to find out. To make data collection easier, the student surveyed the first 100 students to arrive at school on a particular morning. These students reported an average of 7.2 hours of sleep on the previous night.
 - a) Explain why this sampling method may be biased. Is 7.2 hours probably higher or lower than the true average amount of sleep on the previous night for all students at the school? Why?
 - b) Can you think of a better way to conduct this survey? (You don't need to write out your answer to this, but think about it and be prepared to discuss in class during the next block)