

Week 7 — First-half synthesis: Monday exit ticket

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Name: _____

Date: _____

Instructions

Work through each item below. Write your final response in the space provided. Show enough work that another reader can follow your reasoning.

1. A campus newspaper surveys 240 students chosen at random from the spring-semester course enrollment list. For each student, the survey records hours of sleep on a typical school night, hours per week of paid work, and self-reported overall GPA on a 0–4 scale.
 - (a) Identify the **cases** in one short phrase.
 - (b) For each of the three recorded variables, state whether it is **numerical** or **categorical**.
 - (c) If a follow-up analysis asks whether students who work more paid hours per week tend to have lower GPA, name the **explanatory** and **response** variables.
 - (d) Is this an **observational study** or an **experiment**? In one sentence, say why.