

Recent pressure on the Indianapolis Public school system from the governor and state legislature have lead to an increasing use of standardized testing to assure that students are learning at a rate consistent with other school state school districts. The state uses the I-Step test which is scaled in grade equivalence units with a standard deviation of 1.50 (that is 5th graders have a  $\mu$  of 5 and a  $\sigma$  of 1.50). A sample (N=185) of last years IPS scores for 5th graders had a mean of 4.85. Is there any evidence that IPS schools are performing any lower than the state average?

- A. Identify the independent variable(s)
- B, Identify the dependent variables(s)
- C. Is this a between or within subjects design? Why?
- D. Is this an experimental or correlational study, Why?
- F. calculate the appropriate z statistic
- G. test at  $\alpha=.05$ . What do you conclude (reject/fail)
- H. What do you conclude about the study?