MCS-177  
Karl Knight  

**Sum-of-divisors lab grading**  
Name: _____________________

--- 17 WRITING

--- 10 writing style

--- 2 introduction presents single theme, appropriate to lab (why should the reader care?)
--- 1 introduction outlines structure of report (road map)
--- 1 paper’s theme reflected in structure of report
--- 2 conclusion pulls together paper, reiterates theme
--- 3 paragraphs have clear point, well-organized
--- 1 provide adequate transition from section to section

--- 2 organization and structure of report

  Is the structure apparent (for example, are sections well marked?)
  Is the structure logical?

--- 5 spelling, grammar, sentence structure

--- 35 CODE

--- 20 correct code (4 points for adequate testing)
--- 7 clear code (appropriate comments, clear names, fixed-width font, indented properly, what does each procedure compute? and how?)
--- 8 descriptions of code & testing, explanation of why code works

--- 20 ANALYSIS OF ALGORITHMS: Correct Θ analysis of runtime, and clearly justified.

--- 5 book’s sum-of-divisors
--- 5 improved sum-of-divisors
--- 5 ratio procedures using book’s sum-of-divisors
--- 5 ratio procedures using improved sum-of-divisors (technique on page 81 properly applied.)

--- 28 DATA COLLECTION AND CORRELATION WITH ANALYSIS

--- 8 collected the data

--- 12 reasonably presented - table (or, perhaps, a graph)

  - 2 axes or table headings not very clear
  - 1 units not specified
  - 2 timing data for two versions of sum-of-divisors placed in separate tables
  - 1 too many significant figures

--- 8 data tied to the algorithmic analysis (why should the timing ratios be what they are?)

---  TOTAL