The Long and the Short of It: Correlations between Word Count and Paper Score

by John Fallon

11th International Writing Across the Curriculum Conference WAC in High School Settings Session 10E; room 212; 11:30 a.m. to 12:45 p.m. Saturday, June 9, 2012 **Quick Exercise:** You have been given a handout with a sample paper and directions on how to score the paper. Please take 3 or 4 minutes to score the paper.

BACKGROUND INFORMATION

The writer of the paper is a high school junior who had 25 minutes to read the prompt; pre-write as desired; and compose the essay (same constraints as SAT).

FIVE TRAITS TO CONSIDER AS YOU READ THE PAPER:

Critical Thinking—How thoughtful is the paper?

Organization—To what extent is the paper structured?

Development—What is the quality of details in the paper?

Style—How clear and sophisticated is the language used in the paper?

Mechanics—To what extent is there correct punctuation and grammar?

Genesis of the research

- 1 "Cracking the code" of the SAT
- 2. Dr. Les Perelman

"I have never found a quantifiable predictor in 25 years of grading that was anywhere near as strong as this one is."

Were the code cracker and Perelman correct?

Just write more to score higher?

Verifying the claims

•We needed someone to write the essay 42 HS juniors from Ohio Hi Point HS

•We needed someone to grade the essay 8 college English faculty 12 HS language arts teachers

Note: All the evaluators were English teachers.

Procedures

All 20 evaluators scored all 42 papers. (That's 840 paper readings!)

Did longer papers receive higher scores?

Yes.

Results: Scores by Word Count

51-159 Words	Average score 15
160-267 Words	Average score 21
268-375 Words	Average score 24
376-477 Words	Average score 26

Results: Positive Correlation



The more the points cluster tightly about the line, the higher the magnitude of the correlation between word count and score.

** \N/a have a tight alustar!

Results from Today's Exercise



NEWSFLASH: Paper #1 and paper #2 are the same paper!



Interpretation of the difference in scores on the exercise paper:

If a paper even "looks" longer, it will receive a higher grade.

Another interesting factoid about the paper you just scored (paper #9)

Four teams without rubric training scored this paper: 27.85 (out of a possible 40)

Six teams with rubric training scored this paper: 22.75 (out of a possible 40)

Teams without rubric training graded higher, on average, for **ALL THE PAPERS** (not just paper #9)

Mean score by team

Mean paper	
score	Team
26	HS Untrained
24	HS Untrained
19	C Untrained
19	C Untrained
18	HS Trained
17	C Trained
16	C Trained
16	HS Trained
15	HS Trained
15	C Trained

Average paper score: **Untrained Teams** 22 **Trained Teams**

Strength of the Relationship between Word Count and Score:



This chart looks at the strength of the relationship to between word count and paper score by evaluation of the group.

Interpreting Pearson's

CORRELATION COEFFICIENT MAGNITUDE: 0.5 LOW AND 0.8 HIGH



COEFFICIENT OF DETERMINATION () TO WHAT EXTENT DOES WORD COUNT EXPLAIN PAPER SCORE?



What it all means

Perelman and the SAT code cracker were right. Paper grade is explained by word count, but also by rubric training:

- 36% HS teachers trained
- 51% HS teachers untrained
- 38% College teachers trained
- 41% for College teachers untrained

The Long and the Short of It

- 1. As a WAC leader at y0ur school, consider training teachers to use a rubric rather than just providing them with a rubric.
- 2. Remind your students to develop their essay answers—word count matters to their paper scores.

Questions / Comments? Thank you