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

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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 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.

## Results from Today's Exercise

| Paper \#1 (long) | Paper \#2 <br> (short) |
| :--- | :--- |
|  |  |

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

## Paper \#9 / 42

## 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-\#o) 

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 <br> 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

16

## Strength of the Relationship between Word Count and Score: MODEPATE



This chart looks at the strength of the relatjonship1
between word count and paper score by ephabdetiant group. magnitude)

## Interpreting Pearson's

CORRELATION COEFFICIENT MAGNITUDE: 0.5 LOW AND 0.8 HIGH


COEFFICIENT OF DETERMINATION ( $\square$ ) 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 yOur 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

