

## FST FINAL EXAM PART I: The Number Devil FOLLOW-UP

By now, you have finished reading The Number Devil: A Mathematical Adventure by Hans Magnus Enzensberger. Now, we get to have some fun and be creative! (Students will be expected to report on progress twice before project is due.) **Remember that this project demonstrates knowledge of what *mathematical content* has been learned in FST this semester.** This will be worth 40 points toward your final exam grade [total of  $\approx$ 160 points].

- Projects that are recorded, filmed, played or performed must be compatible with our technology. Projects uploaded to a public forum cannot contain last names. Privacy settings for Youtube should be “unlisted”.
- FST topics this semester include: logarithms, probability, sequences, series, polar coordinates & graphing, complex numbers and polynomials.
- Essay choices must be double spaced, 12 point font and 1 inch margins (MLA format).
- Projects are due on or before due date. Late projects will have 10% deducted for each day late, including weekends.

### CHOICES:

- A. Write another chapter using a 2<sup>nd</sup> semester FST topic not already in the book. [1-2 people]
- B. Film an interview with Robert OR the number devil about his experience. Ask questions about “the forgotten night” that includes an additional FST topic. Turn in a copy of your script. [2-3 people]
- C. Write an illustrated story (think graphic novel) that focuses on a particular FST math concept using this book and its characters as the underlying theme. [1-2 people]
- D. Write a short story about another number devil (George) who visited Maude (or Claude), an FST student. You could model it after the illustrated children’s book about complex numbers we saw in class. [1-2 people]
- E. Write, perform, and record a skit based on the book, being sure to address an FST topic. Turn in a copy of your script. [2-4 people]
- F. Create a flow chart/visual representation that shows how ideas in the book relate to FST topics. [1-2 people]
- G. Create an animation/movie/video with the book’s theme that addresses an FST topic. [1-4 people]
- H. Write a 3-4 page book review (critique) of the book. Choose an audience of students taking an Algebra II/Trig or Pre-Calculus class OR to teachers of these subjects. [1-2 people]
- I. Write an essay (3-4 pages) that compares this book to either The Math Curse or The Phantom Tollbooth. [1-2 people]
- J. Create a display of the FST topics addressed in the book. Use a presentation board for your work – one that could be set out at P/T Conferences or MMSTC Orientation. [1-2 people]
- K. Create a board game about the book. Make sure that  $\frac{3}{4}$  of your questions relate to FST 2<sup>nd</sup> semester mathematics content. Answers to questions must be included. [1-2 people]
- L. Come up with your own project idea! Ideas MUST be pre-approved BEFORE work begins.