

Math 353 Logic Puzzles

PROBLEM # 1

Smith, Jones, and Robinson are the engineer, brakeman, and fireman on a train, but not necessarily in that order. Riding the train are three passengers with the same three surnames, to be identified in the following premises by a “Mr” before their names.

Clues:

1. Mr. Robinson lives in Los Angeles.
2. The brakeman lives in Omaha.
3. Mr. Jones log ago forgot all the algebra he learned in high school.
4. The passenger whose name is the same as the brakeman’s lives in Chicago.
5. The brakeman and one of the passengers, a distinguished mathematical physicists, attend the same church.
6. Smith beat the fireman at billiards.

Who is the engineer?

PROBLEM # 2

Smith, Brown, Jones, and Robinson are told that they have each won one of the four prizes for mathematics, English, French, and logic, but none of them know which. They are speculating about it. Smith thinks that Robinson has won the logic prize. Brown thinks that Jones has won the English prize. Jones feels confident that Smith has not won the mathematics prize, and Robinson is of the opinion that Brown has won the French prize. It turns out that the winners of the mathematics and logic prizes were correct in their speculations, but the other two were wrong. Who won which prize?

PROBLEM # 3 WHO DONE IT?

Five men have been found guilty of theft, blackmail, libel, fraud, and murder. By an extraordinary coincidence, their names are Theft, Blackmail, Libel, Fraud, and Murder. Each man has committed the crime whose name corresponds to the last name of one of the other four men.

The namesake of Mr. Blackmail committed the crime whose namesake committed murder. The namesake of Mr. Murder, on the other hand, committed the crime whose namesake committed fraud. Mr. Theft got a 5 year sentence.

Who was executed?