



## Exercises in Reasoning

I. Four men, whom we shall call Robert, Ralph, Ronald, and Rudolph, were playing cards one evening. As a result of a quarrel during the course of the game, one of these men shot and killed another. From the facts below determine the murderer and the victim.

Rudolph had known Ronald for only five days prior to the murder.

Robert will not expose his brother's guilt.

Rudolph has been released from jail on the day of the murder, after serving a three day sentence.

Ralph met Robert's father only once.

Robert had wheeled Ralph, a cripple, to the card game at Ronald's home.

The host is about to give evidence against the murderer, whom he dislikes.

The murdered man had eaten dinner on the previous evening with one of the men who did not customarily bowl with Ronald.

II. Five men are in a poker game: Brown, Perkins, Turner, Jones, and Reilly. Their brands of cigarettes are Luckies, Camels, Kools, Old Golds, and Chesterfields, but not necessarily in that order. At the beginning of the game, the number of cigarettes possessed by each player was 20, 15, 8, 6, and 3, but not necessarily in that order.

During the game, at a certain time when no one was smoking, the following obtained:

Perkins asked for three cards.

Reilly had smoked half of his original supply, or one less than Turner had smoked.

The Chesterfield man originally had as many more, plus half as many more, plus  $2\frac{1}{2}$  more cigarettes than he has now.

The man who was drawing to an inside straight could taste only the menthol in his fifth cigarette, the last one he smoked.

The man who smokes Luckies had smoked at least two more than anyone else, including Perkins.

Brown drew as many aces as he originally had cigarettes.

No one had smoked all his cigarettes.

The Camel man asks Jones to pass Brown's matches.

How many cigarettes did each man have to begin with, and of what brand?

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