

Chapter IV

CONCLUSION

As we are approaching a global era, the world will seem to be smaller and distance becomes no problem because all nations will be connected by a communication system which is called internet. Information may come and go through this system, for government interest or personal interest. The internet is worldwide means of communication, therefore, there must be a language which is understood by its users. And the language is obviously English.

Unfortunately, not all Indonesian people are capable of speaking English well or even understanding the written language. Therefore, our government has been trying to train students to learn English in order to prepare this nation to be ready to face this global era, so that language would not become a problem of communication any more.

My meeting with a person who is brilliant in computer but not in English, encouraged me to make an observation on students of high school, to know if there is any correlation between their abilities of language and their analytic reasoning. This research is based on the theory of **lateralization** in brain, which belongs to the field of **psycholinguistics**. Human brain is divided into two symmetrical hemispheres, left and right. Language, analytical reasoning, arithmetic, writing are controlled by left hemisphere. Such music, holistic reasoning, and pattern recognition are controlled by the right hemisphere (Table I.1, p.10).

In this research, the object of the study is students of state senior high schools in Surabaya. Their scores of courses in natural sciences, mathematics and English are the best representation for this research as my source of data. As the population is big in number, I use multi-stage cluster sampling. The first stage is to pick out 5 from 22 schools. Two classes, as the second stage, are picked out from each of the five schools. As the third and last stage, ten students are selected from

each class. All selection processes are done randomly. Thus, it is believed that the data is valid.

The result of the analysis signifies that the value of R^2 is 0,35, and the Z value is located at the rejection area. Although the value of coefficient of correlation is low, it shows that R^2 is positive. The two evidences indicate that there is an associative relationship or a correlation among the abilities of analytic reasoning, arithmetic and language. The achievements of scores of courses in natural sciences and mathematics are followed proportionally by that of English.

Although the correlation coefficient is low ($R^2 = 0,35$), it is still significant. The significance lies in the fact that a student may have the ability of language almost the same with that of analytic reasoning and arithmetic, these abilities reside at the same cerebral hemisphere.

The factors which may affect students' abilities are students' motivation, family support, teaching method, teachers personality, students' interest and perhaps

more. These may influence them that one course achievement is not followed by others.

BIBLIOGRAPHY