## CHAPTER IV

## FINDINGS AND DISCUSSION

The researcher used Flesch Reading Ease Formula to find out the readability of reading texts in the English textbook entitled "Bahasa Inggris" for X grade of senior high school 2013 Curriculum, published By Kementerian Pendidikan dan Kebudayaan in the year of 2016. As stated previously this study only focuses in calculating the readability scores of reading texts. The readability score is gotten by counting the syllables, words, sentences of a text and analyzing the readability using Flesch Reading Ease Formula.

## A. FINDINGS

This English textbook contains three genres of the texts. The totals of genre reading texts are 10 texts in this study. They are 3 desciptive texts: Tanjung Puting National Park, Taj Mahal, Visiting Niagara Falls, 4 recount texts: Meeting My Idol, The Battle of Surabaya, B.J. Habibie, Cut Nyak Dien, and 3 narrative texts: Issumboshi, Malin Kundang, Strong Wind.

The analysis text 1 entitled Tanjung Puting National Park describes that the text consist of 24 sentences, 413 words, and 562 syllables. Text 2 entitled Taj Mahal has 267 words of 17 sentences. There are 425 syllables of the overall sentences. Text 3
entitled Visiting Niagara Falls has 31 sentences, 484 words, and 805 syllables. The result counting of 26 sentences, 368 words, and 512 syllables belongs to text 4 with the title Meeting My Idol. Text 5 entitled The Battle of Surabaya has 18 sentences, 332 words and 571 syllables. Then 32 sentences, 505 words and 1007 syllables are the result counting of text 6 entitled B.J. Habibie. Text 7 entitled Cut Nyak Dien has 36 sentences, 592 words and 914 syllables. Text 8 entitled Issumboshi has 42 sentences, 404 words, and 512 syllables. Text 9 entitled Malin Kundang has 31 sentences, 413 words, and 553 syllables. The last is text 10 entitled Strong Wind has result counting of 54 sentences, 551 words, and 658 syllables.

The calculation result of the sentences, words, and syllables of each text is presented in table below.

Table 6: Detail of Sentences, Words, and Syllables Counting

| Text | Type of <br> texts | Number of <br> Sentences | Number <br> of words | Number <br> of <br> syllables |
| :---: | :---: | :---: | :---: | :---: |
| Text <br> 1 | Descriptive <br> text | 24 | 413 | 562 |
| Text <br> 2 | Descriptive <br> text | 17 | 267 | 425 |


| Text <br> 3 | Descriptive <br> text | 31 | 484 | 805 |
| :---: | :---: | :---: | :---: | :---: |
| Text <br> 4 | Recount <br> text | 26 | 368 | 512 |
| Text <br> 5 | Recount <br> text | 18 | 332 | 571 |
| Text <br> 6 | Recount <br> text | 32 | 505 | 1007 |
| Text <br> 7 | Recount <br> text | 36 | 592 | 914 |
| Text <br> 8 | Narrative <br> text | 42 | 404 | 512 |
| Text <br> 9 | Narrative <br> text | 31 | 413 | 553 |
| Text <br> 10 | Narrative <br> text | 54 | 551 | 658 |

Then the researcher measured all of the texts using Flesch readability formula.

1. Text 1

ASL = Number of words: Number of Sentences

$$
=413: 24=17.2083333333
$$

ASW = Number of syllables: Number of words

$$
=502: 413=1.3607748184
$$

2. Text 2

ASL = Number of words: Number of Sentences
= 267: $17=15.7058823529$
ASW = Number of syllables: Number of words
= 425: $267=1.5917602996$
3. Text 3

ASL = Number of words: Number of Sentences

$$
=484: 31=15.6129032258
$$

ASW = Number of syllables: Number of words

$$
=805: 484=1.6632231405
$$

4. Text 4

ASL = Number of words: Number of Sentences

$$
=368: 26=14.1538461538
$$

ASW = Number of syllables: Number of words

$$
=512: 368=1.3913043478
$$

5. Text 5

ASL = Number of words: Number of Sentences

$$
=332: 18=17.8888
$$

ASW = Number of syllables: Number of words

$$
=571: 332=1.7732919255
$$

6. Text 6

ASL = Number of words: Number of Sentences

$$
=505: 32=15.78125
$$

ASW = Number of syllables: Number of words

$$
=1007: 505=1.9940594059
$$

7. Text 7

ASL = Number of words: Number of Sentences

$$
=592: 36=16.4444
$$

ASW = Number of syllables: Number of words

$$
=914: 592=1.543915
$$

8. Text 8

ASL = Number of words: Number of Sentences

$$
=404: 42=9.619047619
$$

ASW = Number of syllables: Number of words

$$
=512: 404=1.2673267327
$$

9. Text 9

ASL = Number of words: Number of Sentences

$$
=413: 31=13.5224193543
$$

ASW = Number of syllables: Number of words

$$
=539: 413=1.3389830508
$$

10. Text 10

ASL = Number of words: Number of Sentences

$$
=551: 54=10.2037037037
$$

ASW = Number of syllables: Number of words

$$
=658: 551=1.1941923775
$$

The result of ASL and ASW calculation can be seen in the table 2.

Table 7: Detail of Result of ASL and ASW Calculation

| Text | Average Sentence <br> Length | Average Syllable per <br> Word |
| :--- | :--- | :--- |
| Text 1 | 17.2083333333 | 1.3607748184 |
| Text 2 | 15.7058823529 | 1.5917602996 |
| Text 3 | 15.6129032258 | 1.6632231405 |
| Text 4 | 14.1538461538 | 1.3913043478 |
| Text 5 | 17.8888888889 | 1.7732919255 |
| Text 6 | 15.78125 | 1.9940594059 |
| Text 7 | 16.4444444444 | 1.5439189189 |
| Text 8 | 9.619047619 | 1.2673267327 |
| Text 9 | 13.2225806452 | 1.3389830508 |
| Text 10 | 10.2037037037 | 1.1941923775 |

The next step is finding readability score by using Flesch
Reading Ease Formula:
Text 1
Score $=206.835-(1.015$ X ASL $)-(84.6$ X ASW $)$

$$
=206.835-(1.015 \mathrm{X} 17.2083333333)-(84.6 \mathrm{X}
$$

$1.3607748184)$

$$
\begin{aligned}
& =206.835-(17.4664583333)-(115.1215496366) \\
& =74.2469920301
\end{aligned}
$$

Text 2

$$
\begin{aligned}
\text { Score } & =206.835-(1.015 \text { X ASL })-(84.6 \text { X ASW }) \\
& =206.835-(1.015 \text { X 15.7058823529 })-(84.6 \mathrm{X}
\end{aligned}
$$

1.5917602996)

$$
\begin{aligned}
& =206.835-(15.9414705882)-(134.6629213462) \\
& =56.2306080656
\end{aligned}
$$

Text 3
Score $=206.835-(1.015$ X ASL $)-(84.6$ X ASW $)$

$$
=206.835-(1.015 \text { X 15.6129032258) }-(84.6 \mathrm{X}
$$

1.6632231405)

$$
\begin{aligned}
& =206.835-15.8470967742-140.708677686 \\
& =50.2792255398
\end{aligned}
$$

## Text 4

Score $=206.835-(1.015$ X ASL $)-(84.6$ X ASW $)$

$$
=206.835-(1.015 \mathrm{X} 14.1538461538)-(84.6 \mathrm{X}
$$

1.3913043478 )

$$
\begin{aligned}
& =206.835-(14.3661538461)-(117.7043478239) \\
& =74.76449833
\end{aligned}
$$

## Text 5

Score $=206.835-(1.015$ X ASL $)-(84.6$ X ASW $)$

$$
=206.835-(1.015 \text { X 17.8888888889) }-(84.6 \mathrm{X}
$$

1.7732919255)

$$
\begin{aligned}
& =206.835-(18.1572222222)-(150.0204968973) \\
& =38.6572808805
\end{aligned}
$$

Text 6
Score $=206.835-(1.015$ X ASL $)-(84.6$ X ASW $)$

$$
=206.835-(1.015 \mathrm{X} 15.78125)-(84.6 \mathrm{X}
$$

1.9940594059)

$$
\begin{aligned}
& =206.835-16.01796875-168.6974257391 \\
& =22.1196055109
\end{aligned}
$$

Text 7
Score $=206.835-(1.015$ X ASL $)-(84.6$ X ASW $)$

$$
=206.835-(1.015 \text { X 16.4444444444) }-(84.6 \text { X }
$$

$1.5439189189)$

$$
\begin{aligned}
& =206.835-16.6911111111-130.6155405389 \\
& =59.52834835
\end{aligned}
$$

Text 8
Score $=206.835-(1.015$ X ASL $)-(84.6$ X ASW $)$

$$
=206.835-(1.015 \text { X 9.619047619) }-(84.6 \mathrm{X}
$$

1.2673267327)

$$
\begin{aligned}
& =206.835-9.7633333333-107.2158415864 \\
& =89.8558250803
\end{aligned}
$$

Text 9

$$
\begin{aligned}
\text { Score } & =206.835-(1.015 \mathrm{X} \mathrm{ASL})-(84.6 \mathrm{X} \mathrm{ASW}) \\
& =206.835-(1.015 \text { X 14.5714285714) }-(84.6 \mathrm{X}
\end{aligned}
$$

1.443627451)

$$
\begin{aligned}
& =206.835-13.5224193543-113.2779661017 \\
& =69.914117647
\end{aligned}
$$

Text 10
Score $=206.835-(1.015$ X ASL $)-(84.6$ X ASW $)$

$$
=206.835-(1.015 \text { X 10.2037037037 })-(84.6 \mathrm{X}
$$

1.1941923775)

$$
\begin{aligned}
& =206.835-10.3567592593-101.0286751365 \\
& =95.4495656042
\end{aligned}
$$

The calculation then is put in the table 3.
Table 8: The Readability Score of the Reading Texts Based on the Reading Ease Scale of the Flesch Formula

| Text | Readability Score | Difficult <br> Level | Reading <br> Grade |
| :--- | :--- | :--- | :--- |
| Text 1 | 74.2469920301 | Fairly Easy | $7^{\text {th }}$ Grade |
| Text 2 | 56.2306080656 | Fairly <br> Difficult | $10^{\text {th }}$ to $12^{\text {th }}$ <br> Grade |
| Text 3 | 50.2792255398 | Fairly <br> Difficult | $10^{\text {th }}$ to $12^{\text {th }}$ <br> Grade |
| Text 4 | 74.76449833 | Fairly Easy | $7^{\text {th }}$ Grade |
| Text 5 | 38.6572808805 | Difficult | $13^{\text {th }}$ to $16^{\text {th }}$ <br> Grade |
| Text 6 | 22.1196055109 | Very <br> Difficult | College <br> Graduate |
| Text 7 | 59.52834835 | Fairly <br> Difficult | $10^{\text {th }}$ to $12^{\text {th }}$ <br> Grade |


| Text 8 | 89.8558250803 | Easy | $6^{\text {th }}$ Grade |
| :--- | :--- | :--- | :--- |
| Text 9 | 80.0329196287 | Easy | $6^{\text {th }}$ Grade |
| Text 10 | 95.4495656042 | Very Easy | $5^{\text {th }}$ Grade |

## B. DISCUSSION

After getting the result of the data analysis from the Flesch Reading Ease Formula, 10 reading texts on the textbook are classified into six levels.

1. Very Easy, there is 1 reading text in this level. The readability score is between $90-100$. We find it in the text 10. It means that the text 10 is at the $5^{\text {th }}$ grade of high school.
2. Easy, there is 2 reading text in this level. The readability score is between $80-90$. We find it in the text 8 and Text 9.It means that the text 8 and 9 are at the $6^{\text {th }}$ grade of high school.
3. Fairly Easy, there are 2 reading texts in this level. The readability scores are between $70-80$. We find them in the text 1 and text 4 . It means that the text 1 and 4 are at the $7^{\text {th }}$ grade of high school.
4. Fairly Difficult, there are 3 reading texts in this level. The readability scores are between $50-60$. We find
them in the text 2, 3 and 7 . It means that the text 2,3 , and 7 are at the $10^{\text {th }}$ to $12^{\text {th }}$ Grade of high school.
5. Difficult, there is 1 reading text in this level. The readability scores are between $30-50$. We find it in the text 5 . It means that the text 5 is at the college grade.
6. Very Difficult, there is 1 reading texts in this level. The readability scores are between $0-30$. We find it in the text 6 . It means that the text 6 is at the college graduate grade.

Furthermore, this result continues to percentage the data as in table 4:

Table 9: Data in Percent

| No. | Level | Number of <br> Text | Percentage |
| :--- | :--- | :--- | :--- |
| 1. | Very Easy | 1 | $10 \%$ |
| 2. | Easy | 2 | $20 \%$ |
| 3. | Fairly Easy | 2 | $20 \%$ |
| 4. | Fairly Difficult | 3 | $30 \%$ |
| 5. | Difficult | 1 | $10 \%$ |
| 6. | Very Difficult | 1 | $10 \%$ |

In average, the texts in the textbook especially in the reading section are in Fairly Difficult

Level. Since the texts in Fairly Difficult Level are higher than other texts, it means that the texts are actually in the right level. It is also supported to the theory of Flesch Reading Ease by Rudolf Flesch, the texts are in the appropriate level for tenth grade student of high school. On the other hand, the other five texts that are at $5^{\text {th }}, 6^{\text {th }}, 7^{\text {th }}$ grade level can be used as warm-up for students in reading activities. While two another text that is at college and college graduate level can be used as challenge for students to improve their reading skills.

