

Hak Cipta Diindungi Undang-Undang

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a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.

b. Pengutipan tidak merugikan kepentingan yang wajar UIN Suska Riau.

2. Dilarang mengumumkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun tanpa izin UIN Suska Riau.

## CHAPTER III RESEARCH METHOD

### A. Research Design

This research is descriptive quantitative, which have only one variable.

This research use descriptive approach. Creswell (1994, p.78) states that typical descriptive research is to gather information about the present existing condition. In this research, the researcher described the students' ability in understanding the use of article (a, an, the).

### B. Time and Location of the Research

The location of the research was at SMA Cendana Pekanbaru. This research conducted in April 2019.

### C. Subject and Object of the Research

1. The subject of the research was the eleventh grade students of SMA Cendana Pekanbaru.
2. The object of this research was the students' ability in using articles (a, an, the).

### D. Population and Sample of the Research

#### 1. Population of the Research

The population of this research was three classes. The total number of population was 62 students.

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**Table III.1**  
**The Total Population of the Eleventh Grade Students of SMA**  
**Cendana Pekanbaru**

No	Classes	Total
1.	XI MIPA 1	24
2.	XI MIPA 2	25
3.	XI IPS	13
	Total	62

## 2. Sample of the Research

The researcher used total sampling as the technique in taken the sample. Total sampling is a technique where population becomes the sample, because total of the population is less than 100.

## E. Technique of Collecting Data

### 1. Test

To collecting the data the researcher used test to measure the students' ability in understanding the use of articles (a, an, the). The researcher used fill in the blank test.

**Table III.2**  
**Blue Print of Article Test**

No	Indicator	Item
1.	The students are able to use article 'A' in front of singular noun	3, 9, 11, 14, 21, 30
2.	The students are able to use article 'An' in front of singular noun	2, 6, 16, 23, 28
3.	The students are able to use article 'A' beginning with consonant sounds	7, 12, 18, 26
4.	The students are able to use article 'An' beginning with vowel sounds	4, 13, 17, 19, 22
5.	The students are able to use article 'The' in front of singular noun	1, 5, 15, 25
6.	The students are able to use article 'The' in front of plural noun	20
7.	The students are able to use article 'The' in front of non-count noun	27
8.	The students are able to use article 'The' when the object is unique or consider to be unique	29
9.	The students are able to use article 'The' before <i>superlatives and only</i>	10, 24
10.	The students are able to use article 'The' beginning with the preposition <i>of</i>	8

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## 2. Validity

The test used to the students' ability in understanding the use of article (a, an, the) should be valid and reliable. According to Hecker (2009) validity has to do with the extent to which the instrument measures it is supposed to measure. Hecker stated that there are four types of validity, they are face validity, content validity, criterion validity and construct validity. In this case the researcher used content validity to test the instrument. Content validity is the adequacy with which the instrument samples the domain of measurement.

## a. Validity Article Test

To analyze the validity of article test, the researcher conducted a try out to 30 items by handing them to 42 students who are not included in the research sample. The researcher used SPSS 20.0 program to analyze the data. The researcher compared  $r$  observed to  $r$  table at the significant level of 5% is **0.254** ( $df = N-2= 60$ ). The  $r$  value of each item should be higher than the  $r$  table to be considered as a valid question. The result of the analysis showed that the 30 items were valid, because the  $r$  table higher than  $r$  observed.

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**Table III.3**  
Validity of the Test

Item	R Observed	R Table	Status
item1	.627	.254	Valid
item2	.661	.254	Valid
item3	.292	.254	Valid
item4	.387	.254	Valid
item5	.638	.254	Valid
item6	.509	.254	Valid
item7	.721	.254	Valid
item8	.561	.254	Valid
item9	.333	.254	Valid
item10	.434	.254	Valid
item11	.493	.254	Valid
item12	.618	.254	Valid
item13	.489	.254	Valid
item14	.315	.254	Valid
item15	.373	.254	Valid
item16	.577	.254	Valid
item17	.375	.254	Valid
item18	.555	.254	Valid
item19	.698	.254	Valid
item20	.497	.254	Valid
item21	.517	.254	Valid
item22	.644	.254	Valid
item23	.495	.254	Valid
item24	.564	.254	Valid
item25	.469	.254	Valid
item26	.505	.254	Valid
item27	.417	.254	Valid
item28	.333	.254	Valid
item29	.530	.254	Valid
item30	.279	.254	Valid

## 3. Reliability

According to Cresswell (2012, p. 159) reliability is the instrument scores must be consistent and stable. It means that the scores should be similar or nearly the same when the researchers are repeated the instrument at the different times, occasion and person. The researcher has given 30 questions for the sample. This research is internal consistency reliability. In line to Cresswell (2012, p. 160), internal consistency

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reliability is the instrument administered once and using one version of the instrument. The table below is the categories of reliability test used in determining the level of reliability of the test.

**Table III.4**  
**The Level of Acceptable Reliability**

No	Reliability	Validity
1.	>0.90	Very High
2.	0.80-0.90	High
3.	0.70-0.79	Reliable
4.	0.60-0.69	Marginally/Minimally
5.	<0.60	Unacceptably low

(Cohen, Manion & Morison, 2007, p. 506)

a. Reliability of Article Test

To obtain the reliability of article test, the researcher used SPSS 20.0 Program to find out whether the test was reliable or not.

**Table III.5**  
**Reliability Level of Article Test**  
**Reliability Statistics**

Cronbach's Alpha	N of Items
.914	30

From the table above, it can be seen that the value of Cronbach's Alpha is 0.914. The value is higher than the standard Cronbach's Alpha which is 0.60. Therefore, it can be concluded the test is reliable, and the level of reliability is very high.

## F. Technique of Analyzing Data

For the technique of data analysis, the researcher applied a quantitative analysis technique. The researcher analyzed the students' scores based on the

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test. The point for each correct answer was 1 and 0 for each incorrect answer.

The procedures of analyzing the data can be seen as follows:

1. To know each of students' score individually, the data was calculated by using the following formula:

$$M = \frac{X}{n}$$

Where:

- M = individual score  
 X = correct answer  
 n = number of item test

2. To find out the mean score of students' ability in understanding the use of article A, An and The, the following formula is used:

$$M = \frac{\Sigma FX}{N}$$

Where:

- M = the mean score  
 FX = the sum of the respondents' score  
 N = the number of respondents

Furthermore, the level students' score will be classified into four levels. The classification can be seen in this following table:

**Table III.6**  
**The Classification of the Students' Score**

Score	Category
89-100	Very Good
79-89	Good
70-79	Enough
<70	Less

(Source: 2013 Curriculum)