## البـحـث الثانى عشـر :

# The Relationship Between the Size and Depth of Vocabulary Knowledge Among Saudi Learners 

## العلاقة بين حجم وعمق هعرفة المفردات لدى المتعلمين السعوديين

:<br>أ. مناحي غيب مناحي العتيبي<br>Munahi Ghaib Munahi Alotaibi<br>حاصل على الماجستير وٌِ التربيت<br>وزارة التربيت والتعليم بالمملكت العربيت السعويتيت<br>د مـحملد مضيف السفيانــــــــي<br>Dr. Mohammed M. Alsofyani<br>أستاذ مشارك تقنيات التعليم بقسم لمناهـج وطرق التـريس كليت التربيت جامعتّ الطائف المملكت العربيت السعوديت

## العلاقة بين حجم وعمق هعرفة المفردات لدى المتعلمين السعوديين

أ. مناحي غيب مناحي العتيبي<br>حاصل على الماجستير يِّ التربيت<br>وزارة التربيت والتعليم بالمملكت العربيت السعوديت<br>د مـحمد مضيف السفياني<br>أستاذ مشارك تقنيات التعليم بِقسم لمناهج ووّطرق التـريس<br>كليت التربيت جامعتح الطائف المملكت العربيت السعوديت






 بالطـائف ليكونـوا عينـة الدراسـة المفردات (VLT) لقياس حجـم معرفة المفردات بـين الطلاب. الاختبـار الثاني هو اختبـار (Associated Test (WAT








الكلمات المفتاحية : حجم المفردات - عمق المفردات - المتعلمين السعوديين

## The Relationship Between the Size and Depth of Vocabulary Knowledge Among Saudi Learners

## Munahi Ghaib Munahi Alotaibi

Master's Degree of Education Ministry of Education
Dr. Mohammed M. Alsofyani
Associate Prof (Educational Technology)
Department of Curricula \& Educational Technology
Faculty of Education Taif University

## Abstract

Researchers in the field of vocabulary learning and teaching have made a distinction between two dimensions of vocabulary knowledge: size and depth. However, Milton (2009) empirically argues that these two dimensions
are not separable and that they might be closely related. Therefore, the current study aims to investigate the relationship between the size and depth of vocabulary knowledge among Saudi learners. The researcher adopted the quasi-experimental design. The population of the study involved all the third secondary students at King Saud High School in Taif \Saudi Arabia. The researcher purposely chose (108) third secondary students at King Saud High School in Taif to be the sample of the study. To collect data, the researcher used two tests; Vocabulary Level Test (VLT) to measure the size of vocabulary knowledge among the students. The second test is Word Associated Test (WAT) to measure the depth of vocabulary knowledge among the students. To analyze data, the researcher used SPSS program. The findings of the study showed that there is a statistically significant high positive relationship between the size and depth of vocabulary knowledge among Saudi learners. In addition, there is a significant effect of " Size Test" on "Depth Test ". Anderson and Freebody (1981) stated that a person's vocabulary depth is the quality or depth of their understanding, whereas vocabulary size is measured by the number of words that the individual knows at least some of the significant components of the meaning. A person's vocabulary depth indicates how well they know these words, whereas vocabulary size describes how many words they know. To recommend, further research is needed to confirm the relationship between size and depth and about how to improve these two dimensions among the Saudi learners.
Keywords: Vocabulary size, Vocabulary depth, Saudi learners

## Introduction

Second language (L2) vocabulary researchers agree that a learner's understanding of a term should be defined using a multidimensional construct. Read (1998), Wesche and Paribakht (1996), and Qian (1999) contend that one's vocabulary knowledge should have both breadth and depth. Vocabulary depth, on the other hand, reveals how thoroughly a student has learned the meaning of a word, as opposed to breadth, which is described in terms of the number of words a learner knows with some superficial awareness of some of the meanings.

According to Qian (1999), mastery of a wide range of lexical features, including as their pronunciation, spelling, meaning, register, frequency, morphology, syntax, and collocations, are indicators of a well-rounded vocabulary.

## 「\&7

Qian's (1998; 1999; 2002) findings revealed that there existed high intercorrelations between vocabulary size, depth of vocabulary knowledge, and reading comprehension. Qian and Schedl (2004) found that vocabulary knowledge depth has a substantial effect on test takers' performance in reading comprehension. Finally, it has been established that lexical knowledge is related to reading comprehension, writing ability, linguistic fluency, and academic performance (Laufer et al, 2004).

In addition, when learning a new language, vocabulary is one of the most important factors. Since lexical items provide the core information that FL and SL learners need to comprehend and express, students of these languages are usually aware of how much their vocabulary knowledge limits their communication abilities. (Nation, 2001).

Researchers in the field of vocabulary learning and teaching have made a distinction between two dimensions of vocabulary
knowledge: size and depth (Bogaards and Laufer, 2004, Haastrup and Henriksen, 2000, Milton, 2009, Read, 2000). However, most recently, reviewing many studies in his excellent volume Measuring Second Language Vocabulary Acquisition, Milton (2009) empirically argues that these two dimensions are not separable and that they might be closely related.

Size of vocabulary knowledge is considered as referring to the number of words that language learners know at a particular level of language proficiency (Nation, 2001). Researchers have used various types of assessment tools with different formats to measure this dimension of vocabulary knowledge (Wesche and Paribakht, 1996, for a discussion of
these various assessment types). Nassaji (2004) states that one widely used measure to assess the size of vocabulary knowledge in the literature is Vocabulary Levels Test (henceforth VLT), which has a word-meaning matching format and is composed of words representing different word- frequency levels, ranging from high-frequency (2000word level) to low- frequency words ( 10,000 -word level). As Milton (2009) states, through these tests "we get believable and stable results" (p.11) and they have good content validity (see Methodology section for an example item of VLT).

Depth of vocabulary knowledge refers to how well the language learner knows a word. According to Nassaji (2004, p. 112), researchers have indicated "the complexity and multi-dimensionality of word knowledge and have suggested that knowing a word well should mean more than knowing its individual meanings in particular contexts." Various kinds of knowledge are associated with a word that a learner must know, ranging from knowledge of its pronunciation, spelling, register, and stylistic and morphological features (Haastrup and Henriksen, 2000, Nation, 1990) to knowledge of the word's syntactic and semantic relationships with other
words in the language, including collocational meanings and knowledge of antonymy, synonymy, and hyponymy (Chapelle, 1994, Henriksen, 1999, Read, 2000).

One widely used measure assessing only some of these aspects is Word Associates Test (henceforth WAT) that was originally developed by Read (2000). He used the principle of word association to make a word associates format that asks learners to choose responses to a stimulus. The target word and associates have three basic relationships: "paradigmatic (superordinates, synonyms), syntagmatic

## -

(collocates) and analytic (words representing a key element of the meaning of the target word)" (Read, 2004,
p. 221). The instrument was refined through a process of repeated piloting. The test has been found to be closely correlated with SL reading comprehension ability and has also been shown to have a high degree of internal reliability (Qian, 1999, Qian, 2002, Read, 1993). WAT measures only some components of vocabulary depth, as pointed out above, since these components are important. They appear frequently in discussions of vocabulary knowledge (e.g., Chapelle, 1994, Nation, 1990, Nation, 2001, Qian, 1999, Qian, 2002, Read, 1993, Read, 2000, Wesche and Paribakht, 1996). Although the test taps knowledge of adjectives only, given the design of the measure that requires the identification of nouns that collocate with the adjectives tested, nouns are indirectly tested as well.

What is worth mentioning concerning depth is that there are "no clear, comprehensive and unambiguous definitions to work with" (Milton, 2009, p. 150). The construct validity of depth is therefore challenged. However, one approach is to test the elements of vocabulary depth separately, say idiom or collocation, for the assumption that it will represent ability in the whole of vocabulary depth.

Given that, Wolter (2005) is not so optimistic about this test and cannot suggest with confidence that it succeeds in assessing depth of word knowledge. In addition, guessing and vocabulary size are likely to play a significant role in the scores the test produces (Milton, 2009, p. 163).

Therefore, this research sheds the light on the relationship between the size and depth of vocabulary knowledge among Saudi learners.

## Y\&q

## Statement of the Problem

Researchers in the field of vocabulary learning and teaching have made a distinction between two dimensions of vocabulary knowledge: size and depth. However, Milton (2009) empirically argues that these two dimensions are not separable and that they might be closely related. The problem of the study can be determined by the following main question: "What is the relationship between the size and depth of vocabulary knowledge among Saudi learners?".

## Questions of the Study

The current study seeks to answer the following questions:

- What is the size of vocabulary knowledge among Saudi learners?
- What is the depth of vocabulary knowledge among Saudi learners?
- What is the relationship between the size and depth of vocabulary knowledge among Saudi learners?


## Hypothesis of the Study

- There is a statistically significant high positive relationship between the size and depth of vocabulary knowledge among Saudi learners
- There is a significant effect of " Size Test" on "Depth Test ".


## Purpose of the Study

The current study aims to investigate the relationship between the size and depth of vocabulary knowledge among Saudi learners.

## Significance of the Study

The significance of the current study lies in the following:

- The researchers noticed through their review of previous
studies and modern sources related to the subject of the research that there are a limited number of studies that talked about the relationship between the size and depth of vocabulary knowledge, especially in Saudi Arabia, so this research may be considered one of the recent studies that can benefit researchers in the same field as a reference.
- The current study may contribute to drawing the attention of English teachers and who concerns about the difference between the size and the depth of vocabulary knowledge and the relationship between them.


## Delimitation of the Study

Place: Taif city in Saudi Arabia
Time: The study was done during 2022, and data was collected during the third semester of the academic year.

Topic: The relationship between the size and depth of vocabulary knowledge.
People: Third secondary students at King Saud High School in Taif \Saudi Arabia.

## Definition of Terms

- Vocabulary: Susanto (2017) defined it as: "The learning of Vocabulary is important part in foreign language learning. The meanings of new words are very frequently emphasized, whether in books or in verbal communication. Vocabulary is considered as the central in language teaching and is of paramount importance to a language learner".
- Size of vocabulary knowledge: It refers to the number of words that language learners know at a particular level of language proficiency (Nation, 2001). Researchers have used various types of assessment tools with different
formats to measure this dimension of vocabulary knowledge (Wesche and Paribakht, 1996, for a discussion of these various assessment types).
- Depth of vocabulary knowledge: It refers to how well the language learner knows a word. According to Nassaji (2004, p. 112), researchers have indicated "the complexity and multi-dimensionality of word knowledge and have suggested that knowing a word well should mean more than knowing its individual meanings in particular contexts."


## Previous Studies

Akbarian (2010) stated that vocabulary knowledge occupies an important position in language learning. This study investigates the relationship between vocabulary size and depth for Iranian learners of English for specific/academic purposes (ESP/EAP). The participants include 112 ESP graduate students at a university in Iran. The findings from linear regression analyses show that, overall, VLT (size test) and WAT (depth test) have a great deal of common shared variance for these participants ( $\mathrm{R} 2=.746$ ). However, when they were divided into low and high proficiency groups, based on whether the participants mastered the most frequent 2000 words in VLT, a substantial amount of shared variance was shown for the low group (R2 $=.464)$ and a much higher one for the high group $(\mathrm{R} 2=$ .804). The findings suggest that vocabulary size and depth might be accounted for by the same factors, especially as the learners' proficiency increases.

Atai \& Nikuinezhad (2012) designed a study to assess the relative contributions of vocabulary and syntactic knowledge as predictors of reading comprehension performance. Further,
it aimed to explore the connection between syntactic and lexical acuity and readers' ability to comprehend what they read. There were 159 male Iranian high school freshmen and sophomores involved. The reading sections of the Vocabulary Levels Test, Word Associates Test, and Syntactic Knowledge Test were used to compile the data. Results showed that there was a positive relationship between grammar and vocabulary scores and reading comprehension scores. Additionally, syntactic knowledge was found to have a stronger relationship to reading comprehension than vocabulary. In our investigation, we found that syntactic factors account for a greater percentage of the reading variance. To test whether depth / breadth of vocabulary knowledge or syntax may have better predictive power in reading comprehension performance, multiple-regression analysis was undertaken. Although other variables accounted for the variance in the reading test, the beta values suggested that grammar had a substantial role in the reader's overall comprehension. These findings shed additional light on the potential moderating role that learners' grammatical knowledge plays in their low-intermediate reading comprehension.

Schmitt (2014) reported that it's common to differentiate between vocabulary size (the number of words one knows) and vocabulary depth when talking about language skills (how well those words are known). Nonetheless, the connection between the two concepts remains hazy. While there may be no difference between the two, regression analysis reveals that depth offers distinctive explanatory power over size alone. It all comes down to definitions and metrics used to determine how vocabulary quantity and knowledge depth are related. This critical synthesis aims to
provide an empirical foundation for investigating the sizedepth relationship by locating research that use such measurements. Multiple depth-based perspectives led to the emergence of distinct layouts. There is generally minimal difference between size and a variety of depth metrics for higher frequency terms and for learners with smaller vocabulary sizes. However, there is often a chasm between size and depth, with depth measures trailing behind size measures, for lower frequency terms and for greater vocabulary sizes. The link between size and some forms of word knowledge (such as derivative knowledge) appears to be weaker than with other forms of word knowledge.

Alzahrani et al. (2021) stated that the vocabulary of students learning a second language (L2) is a critical factor in their success in acquiring that L2. In addition, students of a target language can't become fluent in that language until they acquire a substantial vocabulary through reading, writing, listening, and speaking. For this reason, this research analyzes the relationship between vocabulary size and reading comprehension in Saudi Arabian high school EFL students. One hundred and eight students from a Saudi high school EFL program took two tests for this study: i the vocabulary size test (VST), and (ii) an adjusted reading comprehension test. The findings reveal that the average vocabulary size of Saudi EFL learners was 2025 -word families, which allowed them to comprehend up to $90 \%$ of written texts. Vocabulary knowledge is a strong predictor of successful reading comprehension among these participants, but its influence is moderated by English competence. U.N. Sustainable Development Goal 4 (SDG-4) states that "all students will have highly motivated, well-supported, and well-qualified teachers to develop English- language skills

## ro

via coherent inter-school curricula and continued access to qualified, experienced English-language teachers." This paper offers helpful insights for educational stakeholders in Saudi Arabia to improve reading comprehension in L2 contexts in line with SDG-4.

## Research Methodology

Design of this Study is a correlational descriptive approach. The Population of the Study is involved all the third secondary students at King Saud High School in Taif $\$ Saudi Arabia. As the researcher is the teacher of the classes included in is study. A convenient sampling approach was implemented to include (108) third secondary students at King Saud High School in Taif to be the sample of the study.

To collect data, the researcher used two tests; First, Vocabulary Level Test (VLT), which was developed by Nations \& Beglar (2007), to measure the size of vocabulary knowledge among the students. The Vocabulary Level Test (VLT) is a simple diagnostic tool for measuring students' ability to understand spoken and written English. Words in the exam are drawn from a corpus, so their frequency profiles and distributions in real-world contexts can be relied upon. (Nation, 2013). The participants were asked to pair a target word with its definition during the exam. There are a total of five distinct sections within the exam which represent fourword frequency levels: The 1 st 1,000 -word level, the 2 nd 1,000 -word level, the 3 rd 1,000 -word level, the 4 th $1,000-$ word level, the 5th 1,000 -word level. There are a total of 150 words over the five sections of the test, with 30 items each level reflecting the whole frequency range. Test items are like the following example:

1. COMPOUND: They made a new compound.
a. agreement
b. thing made of two or more parts
c. group of people forming a business
d. - guess based on past experience

The other one was Word Associated Test (WAT), which was developed by Read (1998), to measure the depth of the vocabulary knowledge among the students. Depth of Vocabulary Knowledge (DVK) is intended to measure learners' depth of receptive English vocabulary knowledge. DVK measures two aspects of vocabulary depth: meaning (synonymy and polysemy) and collocation (Qian, 1998). This test was originally developed by Read (1993) and was called the Word Associates Test (WAT). A modified version of the DVK, used in this study, contains 40 items; 32 items were original WAT, and eight items were developed by Qian (1998) to replace eight original items which were considered ambiguous. Each item consists of one stimulus adjective and two boxes, each containing four words. One to three words in the left box can be synonymous to the whole meaning or one aspect of the stimulus word, whereas one to three words in the right box can be collocations of the stimulus word. Thus, there are four correct answers for each item. However, the four answers are not equally spread. There are three possible situations: (a) each box contains two correct answers, (b) the left box contains one correct answer, and the right box contains three correct answers; and (c) the left box contains three correct answers, and the right box contains only one correct answer (Qian, 2002). In scoring DVK, each word correctly chosen was given one point. Thus, the maximum possible score for the 40 items was 160 . Test items are like

## a

the following example:
sensitive
$\square$

## example:

## Procedures of the Study

The study tools (that is, the two tests) were applied to a sample of students in the secondary stage (especially the third secondary grade) with the help of some English language teachers in the school, where the duration of each test was 45 minutes, and the students and teachers were very cooperative. The researcher gave oral instructions in Arabic to the participants before taking the test and the participation was voluntary. As the researcher did not face any difficulty in applying the two tests. The vocabulary size test was administered during regular classes and participation in this study was voluntary.

To analyze data, descriptive statistics were used to address the research questions of this study. Scores collected from this study were analyzed using the Statistical Package for Social Science (SPSS), by applying the descriptive test to the data to get the means and standard deviations for each of the test items. The researcher used the following tools of data analysis:

- Frequency: to calculate data frequencies.
- Mean: to show the main dimensions of the study
- Standard Deviation: to show how much variation or dispersion exists from the mean
- Correlational analysis: examine the correlation between size and depth of vocabulary.


## Findings and Discussion

## Frequencies of the study sample First 1000

## SEE: They saw it.

The table below shows the distribution of the study sample according to SEE, we notice that ( $29.6 \%$ ) of the study sample answered cut, ( $34.3 \%$ ) answered looked at, ( $5.6 \%$ ) answered started and ( $30.6 \%$ ) answered waited for.

Table (4.1) Distribution of study sample according to SEE

|  | Frequency | Percent |
| :---: | :---: | :---: |
| cut | 32 | 29.6 |
| looked at | 37 | 34.3 |
| started | 6 | 5.6 |
| waited for | 33 | 30.6 |
| Total | 108 | $100 \%$ |

## TIME: They have a lot of time.

The table below shows the distribution of the study sample according to TIME, we notice that ( $24.1 \%$ ) of the study sample answered food, (8.3\%) answered friends, (49.1\%) answered hours and ( $18.5 \%$ ) answered money.

Table (4.2) Distribution of study sample according to TIME

|  | Frequency | Percent |
| :---: | :---: | :---: |
| food | 26 | 24.1 |
| friends | 9 | 8.3 |
| hours | 53 | $\mathbf{4 9 . 1}$ |
| money | 20 | 18.5 |
| Total | 108 | $100 \%$ |

## PERIOD: It was a difficult period.

The table below shows the distribution of the study sample according to PERIOD, we notice that (5.6\%) of the study sample answered book, (27.8\%) answered question, (18.5\%) answered thing to do and (48.1\%) answered time.

Table (4.3) Distribution of study sample according to PERIOD

|  | Frequency | Percent |
| :---: | :---: | :---: |
| book | 6 | 5.6 |
| question | 30 | 27.8 |
| thing to do | 20 | 18.5 |
| time | 52 | $\mathbf{4 8 . 1}$ |
| Total | 108 | $100 \%$ |

FIGURE: Is this the right figure.
The table below shows the distribution of the study sample according to

FIGURE, we notice that (21.3\%) of the study sample answered answer, (27.8\%) answered number, (25\%) answered place and $(25.9 \%)$ answered time.

Table (4.4) Distribution of study sample according to FIGURE

|  | Frequency | Percent |
| :---: | :---: | :---: |
| answer | 23 | 21.3 |
| number | $\mathbf{3 0}$ | 27.8 |
| place | 27 | $\mathbf{2 5 . 0}$ |
| time | $\mathbf{2 8}$ | $\mathbf{2 5 . 9}$ |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## POOR: We are poor.

The table below shows the distribution of the study sample according to POOR, we notice that ( $13 \%$ ) of the study sample answered are very interested, (13.9\%) answered do not like to work hard, (20.4\%) answered feel happy and (52.8\%) answered have no money.

Table (4.5) Distribution of study sample according to POOR

|  | Frequency | Percent |
| :---: | :---: | :---: |
| are very interested | 14 | 13.0 |
| do not like to work <br> hard | 15 | 13.9 |
| feel happy | 22 | 20.4 |
| have no money | 57 | 52.8 |
| Total | 108 | $100 \%$ |

## DRIVE: He drives fast.

The table below shows the distribution of the study sample according to DRIVE, we notice that (23.1\%) of the study sample answered Learns, ( $24.1 \%$ ) answered swims, (10.2\%) answered Throws balks and (42.6\%) answered Uses car.

Table (4.6) Distribution of study sample according to DRIVE

|  | Frequency | Percent |
| :---: | :---: | :---: |
| Learns | 25 | 23.1 |
| swims | 26 | $\mathbf{2 4 . 1}$ |
| Throws balks | $\mathbf{1 1}$ | $\mathbf{1 0 . 2}$ |
| Uses car | $\mathbf{4 6}$ | $\mathbf{4 2 . 6}$ |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## JUMP: She tries to jump.

The table below shows the distribution of the study sample according to JUMP, we notice that (44.4\%) of the study sample answered get off the ground suddenly, (21.3\%) answered lie on top of the water, (13\%) answered move very fast and (21.3\%) answered stop the car at the edge of the road.

Table (4.7) Distribution of study sample according to JUMP

|  | Frequency | Percent |
| :---: | :---: | :---: |
| get off the ground suddenly | 48 | 44.4 |
| lie on top of the water | 23 | 21.3 |
| move very fast | 14 | 13.0 |
| stop the car at the edge of the |  |  |
| road | 23 | 21.3 |
| Total | 108 | $100 \%$ |

## SHOE: Where is your shoe?

The table below shows the distribution of the study sample according to SHOE, we notice that $(23.1 \%)$ of the study sample answered the person who looks after you, (28.7\%) answered the thing you keep your money in, (18.5\%) answered the thing you use for writing and (29.6\%) answered the thing you wear on your foot.

Table (4.8) Distribution of study sample according to SHOE

|  | Frequency | Percent |
| :---: | :---: | :---: |
| the person who looks after you | 25 | 23.1 |
| the thing you keep your money in | $\mathbf{3 1}$ | 28.7 |
| the thing you use for writing | 20 | 18.5 |
| the thing you wear on your foot | $\mathbf{3 2}$ | 29.6 |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

STANDARD: Her standards are very high.
The table below shows the distribution of the study sample according to STANDARD, we notice that (35.2\%) of the study sample answered the bits at the back under her shoes, ( $23.1 \%$ ) answered the levels she reaches in everything, ( $27.8 \%$ ) answered the marks she gets in school and (13.9\%) answered the money she asks for.
Table (4.9) Distribution of study sample according to STANDARD

| the bits at the back under her shoes | Frequency | Percent |
| :---: | :---: | :---: |
| the levels she reaches in everything | 25 | 35.2 |
| the marks she gets in school | 30 | 23.1 |
| the money she asks for | 15 | $\mathbf{1 3 . 8}$ |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

BASIS: This was used as the basis.
The table below shows the distribution of the study sample according to BASIS, we notice that ( $23.1 \%$ ) of the study sample answered answer, ( $29.6 \%$ ) answered main part, $(22.2 \%)$ answered next step and $(25 \%)$ answered place to take a rest.

Table (4.10) Distribution of study sample according to BASIS

|  | Frequency | Percent |
| :---: | :---: | :---: |
| answer | 25 | 23.1 |
| main part | 32 | 29.6 |
| next step | 24 | 22.2 |
| place to take a rest | 27 | $\mathbf{2 5 . 0}$ |
| Total | 108 | $\mathbf{1 0 0 \%}$ |

## Second 1000

## MAINTAIN: Can they maintain it?

The table below shows the distribution of the study sample according to MAINTAIN, we notice that ( $26.9 \%$ ) of the study sample answered get a better one than it, (9.3\%) answered get it, ( $41.7 \%$ ) answered keep it as it is and ( $22.2 \%$ ) answered make it larger.
Table (4.11) Distribution of study sample according to MAINTAIN

|  | Frequency | Percent |
| :---: | :---: | :---: |
| get a better one <br> than it | 29 | 26.9 |
| get it | 10 | 9.3 |
| keep it as it is | 45 | 41.7 |
| make it larger | 24 | 22.2 |
| Total | 108 | $100 \%$ |

## STONE: They sat on a stone.

The table below shows the distribution of the study sample according to STONE, we notice that ( $38 \%$ ) of the study sample answered hard thing, ( $23.1 \%$ ) answered kind of chair, ( $14.8 \%$ ) answered part of a tree and ( $24.1 \%$ ) answered soft thing on the floor.

Table (4.12) Distribution of study sample according to STONE

|  | Frequency | Percent |
| :---: | :---: | :---: |
| hard thing | 41 | 38.0 |
| kind of chair | 25 | 23.1 |
| part of a tree | 16 | 14.8 |
| soft thing on the <br> floor | 26 | 24.1 |
| Total | 108 | $\mathbf{1 0 0 \%}$ |

## PATIENCE: He has no patience.

The table below shows the distribution of the study sample according to PATIENCE, we notice that ( $10.2 \%$ ) of the study sample answered does not know what is fair, (22.2\%)
answered has no faith, ( $30.6 \%$ ) answered has no free time and ( $37 \%$ ) answered will not wait happily.
Table (4.13) Distribution of study sample according to PATIENCE

|  | Frequency | Percent |
| :---: | :---: | :---: |
| does not know what is fair | 11 | 10.2 |
| has no faith | 24 | 22.2 |
| has no free time | 33 | 30.6 |
| will not wait happily | 40 | 37.0 |
| Total | 108 | $100 \%$ |

UPSET: I am upset.
The table below shows the distribution of the study sample according to UPSET, we notice that ( $26.9 \%$ ) of the study sample answered famous, ( $23.1 \%$ ) answered rich, ( $24.1 \%$ ) answered tired and ( $25.9 \%$ ) answered unhappy.

Table (4.14) Distribution of study sample according to UPSET

|  | Frequency | Percent |
| :---: | :---: | :---: |
| famous | 29 | 26.9 |
| rich | 25 | 23.1 |
| tired | 26 | 24.1 |
| unhappy | 28 | 25.9 |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## DRAWER: The drawer was empty.

The table below shows the distribution of the study sample according to DRAWER, we notice that (10.2\%) of the study sample answered animal house, (17.6\%) answered cupboard to keep things cold, $(30.6 \%)$ answered place where cars are kept and (41.7\%) answered sliding box.

Table (4.15) Distribution of study sample according to DRAWER

|  | Frequency | Percent |
| :---: | :---: | :---: |
| animal house | 11 | 10.2 |
| cupboard to keep things cold | 19 | 17.6 |
| place where cars are kept | 33 | 30.6 |
| sliding box | 45 | 41.7 |
| Total | 108 | $100 \%$ |

## NIL: His mark for that question was nil.

The table below shows the distribution of the study sample according to NIL, we notice that ( $12 \%$ ) of the study sample answered in the middle, (41.7\%) answered nothing, (24.1\%) answered very bad and ( $22.2 \%$ ) answered very good.

Table (4.16) Distribution of study sample according to Gender

|  | Frequency | Percent |
| :---: | :---: | :---: |
| in the middle | 13 | 12.0 |
| nothing | 45 | 41.7 |
| very bad | 26 | 24.1 |
| very good | 24 | 22.2 |
| Total | 108 | $100 \%$ |

## PUB: They went to the pub.

The table below shows the distribution of the study sample according to PUB, we notice that (20.4\%) of the study sample answered animal house, also (20.4\%) answered cupboard to keep things cold, (11.1\%) answered place that looks after money and ( $48.1 \%$ ) answered place where people drink and talk.

Table (4.17) Distribution of study sample according to PUB

|  | Frequency | Percent |
| :---: | :---: | :---: |
| animal house | 22 | 20.4 |
| cupboard to keep things cold | 22 | 20.4 |
| place that looks after money | 12 | 11.1 |
| place where people drink and <br> talk | 52 | 48.1 |
| Total | 108 | $100 \%$ |

## CIRCLE: Make a circle.

The table below shows the distribution of the study sample according to CIRCLE, we notice that ( $13 \%$ ) of the study sample answered large hole, ( $18.5 \%$ ) answered rough picture, ( $37 \%$ ) answered round shape and ( $31.5 \%$ ) answered space
with nothing in it.
Table (4.18) Distribution of study sample according to CIRCLE

|  | Frequency | Percent |
| :---: | :---: | :---: |
| large hole | 14 | 13.0 |
| rough picture | 20 | 18.5 |
| round shape | 40 | 37.0 |
| space with nothing in <br> it | 34 | 31.5 |
| Total | 108 | $100 \%$ |

MICROPHONE: Please use the microphone.
The table below shows the distribution of the study sample according to MICROPHONE, we notice that (48.1\%) of the study sample answered machine that makes sounds louder, (16.7\%) answered machine that makes things look bigger, (27.8\%) answered Option 1machine for making food hot and (7.4\%) answered small telephone that can be carried around.

Table (4.19) Distribution of study sample according to MICROPHONE

|  | Frequency | Percent |
| :---: | :---: | :---: |
| machine that makes sounds louder | 52 | 48.1 |
| machine that makes things look bigger | 18 | 16.7 |
| Option 1machine for making food hot | 30 | 27.8 |
| small telephone that can be carried around | 8 | 7.4 |
| Total | 108 | $100 \%$ |

PRO: He's a pro.
The table below shows the distribution of the study sample according to PRO, we notice that (23.1\%) of the study sample answered a stupid person, (41.7\%) answered someone who is employed to find out important secrets, (18.5\%) answered someone who is paid for playing a sport, etc and (16.7\%) answered someone who writes for a newspaper.

Table (4.20) Distribution of study sample according to PRO

|  | Frequency | Percent |
| :---: | :---: | :---: |
| a stupid person | 25 | 23.1 |
| someone who is employed to find out <br> important secrets | 45 | 41.7 |
| someone who is paid for playing a sport, etc. | 20 | 18.5 |
| someone who writes for a newspaper | 18 | 16.7 |
| Total | 108 | $\mathbf{1 0 0 \%}$ |

Third 1000

## SOLDIER: He is a soldier.

The table below shows the distribution of the study sample according to SOLDIER, we notice that ( $22.2 \%$ ) of the study sample answered person in a business, (29.6\%) answered person in the army, (14.8\%) answered person who uses metal and ( $33.3 \%$ ) answered student.

Table (4.21) Distribution of study sample according to SOLDIER

|  | Frequency | Percent |
| :---: | :---: | :---: |
| person in a business | 24 | 22.2 |
| person in the army | 32 | 29.6 |
| person who uses metal | 16 | 14.8 |
| student | 36 | 33.3 |
| Total | 108 | $100 \%$ |

RESTORE: It has been restored.
The table below shows the distribution of the study sample according to RESTORE, we notice that (13\%) of the study sample answered given a lower price, (30.6\%) answered given to a different person, (33.3\%) answered made like new again and (23.1\%) answered said again.

Table (4.22) Distribution of study sample according to RESTORE

|  | Frequency | Percent |
| :---: | :---: | :---: |
| given a lower price | $\mathbf{1 4}$ | $\mathbf{1 3 . 0}$ |
| given to a different person | $\mathbf{3 3}$ | $\mathbf{3 0 . 6}$ |
| made like new again | $\mathbf{3 6}$ | $\mathbf{3 3 . 3}$ |
| said again | $\mathbf{2 5}$ | $\mathbf{2 3 . 1}$ |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## JUG: He was holding a jug.

The table below shows the distribution of the study sample according to JUG, we notice that ( $34.3 \%$ ) of the study sample answered a container for pouring liquids, ( $30.6 \%$ ) answered a soft cap, ( $10.2 \%$ ) answered a weapon that explodes and ( $25 \%$ ) answered an informal discussion.

Table (4.23) Distribution of study sample according to JUG

|  | Frequency | Percent |
| :---: | :---: | :---: |
| a container for pouring <br> liquids | 37 | 34.3 |
| a soft cap | 33 | $\mathbf{3 0 . 6}$ |
| a weapon that explodes | 11 | $\mathbf{1 0 . 2}$ |
| an informal discussion | 27 | 25.0 |
| Total | 108 | $100 \%$ |

## SCRUB: He is scrubbing it.

The table below shows the distribution of the study sample according to SCRUB, we notice that ( $23.1 \%$ ) of the study sample answered cutting shallow lines into it, (13.9\%) answered drawing simple pictures of it, ( $28.7 \%$ ) answered repairing it and ( $34.3 \%$ ) answered rubbing it hard to clean it.

Table (4.24) Distribution of study sample according to SCRUB

|  | Frequency | Percent |
| :---: | :---: | :---: |
| cutting shallow lines into it | 25 | 23.1 |
| drawing simple pictures of it | 15 | 13.9 |
| repairing it | 31 | 28.7 |
| rubbing it hard to clean it | 37 | 34.3 |
| Total | 108 | $100 \%$ |

## DINOSAUR: The children were pretending to be

 dinosaurs.The table below shows the distribution of the study sample according to DINOSAUR, we notice that ( $23.1 \%$ ) of the study sample answered animals that lived a long time ago,

## Y7

( $22.2 \%$ ) answered large creatures with wings that breathe fire, ( $25 \%$ ) answered robbers who work at sea and (29.6\%) answered small creatures with human form but with wings.
Table (4.25) Distribution of study sample according to DINOSAUR

|  | Frequenc <br> $\mathbf{y}$ | Percent |
| :---: | :---: | :---: |
| animals that lived a long time ago | 25 | 23.1 |
| large creatures with wings that breathe fire | 24 | 22.2 |
| robbers who work at sea | 27 | 25.0 |
| small creatures with human form but with <br> wings | 32 | 29.6 |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## STRAP: He broke the strap.

The table below shows the distribution of the study sample according to STRAP, we notice that (25\%) of the study sample answered promise, (20.4\%) answered shallow dish for food, (31.5\%) answered strip of material for holding things together and ( $23.1 \%$ ) answered top cover.

Table (4.26) Distribution of study sample according to STRAP

|  | Frequency | Percent |
| :---: | :---: | :---: |
| promise | 27 | $\mathbf{2 5 . 0}$ |
| shallow dish for food | $\mathbf{2 2}$ | $\mathbf{2 0 . 4}$ |
| strip of material for holding things <br> together | $\mathbf{3 4}$ | $\mathbf{3 1 . 5}$ |
| top cover | $\mathbf{2 5}$ | $\mathbf{2 3 . 1}$ |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## PAVE: It was paved.

The table below shows the distribution of the study sample according to PAVE, we notice that (20.4\%) of the study sample answered covered with a hard surface, (23.1\%) answered divided, ( $22.2 \%$ ) answered given gold edges and (34.3\%) answered prevented from going through.

Table (4.27) Distribution of study sample according to PAVE

|  | Frequency | Percent |
| :---: | :---: | :---: |
| covered with a hard surface | $\mathbf{2 2}$ | $\mathbf{2 0 . 4}$ |
| divided | 25 | $\mathbf{2 3 . 1}$ |
| given gold edges | $\mathbf{2 4}$ | $\mathbf{2 2 . 2}$ |
| prevented <br> from grough | $\mathbf{3 7}$ | $\mathbf{3 4 . 3}$ |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## DASH: They dashed over it.

The table below shows the distribution of the study sample according to DASH, we notice that ( $16.7 \%$ ) of the study sample answered fought, ( $12 \%$ ) answered looked quickly, (50\%) answered moved quickly and (21.3\%) answered moved slowly.

Table (4.28) Distribution of study sample according to DASH

|  | Frequency | Percent |
| :---: | :---: | :---: |
| fought | 18 | 16.7 |
| looked quickly | $\mathbf{1 3}$ | $\mathbf{1 2 . 0}$ |
| moved quickly | 54 | 50.0 |
| moved slowly | 23 | 21.3 |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## ROVE: He couldn't stop roving.

The table below shows the distribution of the study sample according to ROVE, we notice that ( $26.9 \%$ ) of the study sample answered getting drunk, (23.1\%) answered making a musical sound through closed lips, (40.7\%) answered travelling around and ( $9.3 \%$ ) answered working hard.

Table (4.29) Distribution of study sample according to ROVE

|  | Frequency | Percent |
| :---: | :---: | :---: |
| getting drunk | 29 | 26.9 |
| making a musical sound through closed lips | 25 | 23.1 |
| travelling around | 44 | 40.7 |
| working hard | 10 | 9.3 |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## LONESOME: He felt lonesome.

The table below shows the distribution of the study sample according to LONESOME, we notice that (11.1\%) of the study sample answered full of energy, (42.6\%) answered lonely, ( $27.8 \%$ ) answered ungrateful and ( $18.5 \%$ ) answered very tired.
Table (4.30) Distribution of study sample according to LONESOME

|  | Frequency | Percent |
| :---: | :---: | :---: |
| full of energy | $\mathbf{1 2}$ | $\mathbf{1 1 . 1}$ |
| lonely | $\mathbf{4 6}$ | $\mathbf{4 2 . 6}$ |
| ungrateful | $\mathbf{3 0}$ | $\mathbf{2 7 . 8}$ |
| very tired | $\mathbf{2 0}$ | $\mathbf{1 8 . 5}$ |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## Fourth 1000

## COMPOUND: They made a new compound.

The table below shows the distribution of the study sample according to COMPOUND, we notice that ( $23.1 \%$ ) of the study sample answered agreement, ( $25 \%$ ) answered group of people forming a business, ( $9.3 \%$ ) answered guess based on past experience and (42.6\%) answered thing made of two or more parts.
Table (4.31) Distribution of study sample according to COMPOUND

|  | Frequency | Percent |
| :---: | :---: | :---: |
| agreement | $\mathbf{2 5}$ | 23.1 |
| group of people forming a business | 27 | $\mathbf{2 5 . 0}$ |
| guess based on past experience | $\mathbf{1 0}$ | $\mathbf{9 . 3}$ |
| thing made of two or more parts | $\mathbf{4 6}$ | $\mathbf{4 2 . 6}$ |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## LATTER: I agree with the latter.

The table below shows the distribution of the study sample according to LATTER, we notice that (10.2\%) of the study sample answered answer, ( $38 \%$ ) answered last one, ( $23.1 \%$ ) answered man from the church and (28.7\%) answered reason given.

Table (4.32) Distribution of study sample according to LATTER

|  | Frequency | Percent |
| :---: | :---: | :---: |
| answer | 11 | $\mathbf{1 0 . 2}$ |
| last one | 41 | $\mathbf{3 8 . 0}$ |
| man from the church | 25 | 23.1 |
| reason given | $\mathbf{3 1}$ | $\mathbf{2 8 . 7}$ |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## TUMMY: Look at my tummy.

The table below shows the distribution of the study sample according to TUMMY, we notice that ( $24.1 \%$ ) of the study sample answered cloth to cover the head, (20.4\%) answered small furry animal, ( $46.3 \%$ ) answered stomach and (9.3\%) answered thumb.

Table (4.33) Distribution of study sample according to TUMMY

|  | Frequency | Percent |
| :---: | :---: | :---: |
| cloth to cover the head | 26 | 24.1 |
| small furry animal | 22 | 20.4 |
| stomach | 50 | 46.3 |
| thumb | 10 | 9.3 |
| Total | 108 | $100 \%$ |

## CANDID: Please be candid.

The table below shows the distribution of the study sample according to CANDID, we notice that ( $22.2 \%$ ) of the study sample answered be careful, ( $25.9 \%$ ) answered say what you really think, ( $31.5 \%$ ) answered show fairness to both sides and (20.4\%) answered show sympathy.

Table (4.34) Distribution of study sample according to CANDID

|  | Frequency | Percent |
| :---: | :---: | :---: |
| be careful | 24 | 22.2 |
| say what you really think | 28 | 25.9 |
| show fairness to both sides | 34 | 31.5 |
| show sympathy | 22 | 20.4 |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## INPUT: We need more input.

The table below shows the distribution of the study sample according to INPUT, we notice that ( $23.1 \%$ ) of the study sample answered artificial filling for a whole in wood, (37\%) answered information, power, etc. put into something, ( $20.4 \%$ ) answered money and ( $19.4 \%$ ) answered workers.

Table (4.35) Distribution of study sample according to INPUT

|  | Frequency | Percent |
| :---: | :---: | :---: |
| artificial filling for a whole in wood | 25 | 23.1 |
| information, power, etc. put into something | 40 | 37.0 |
| money | 22 | $\mathbf{2 0 . 4}$ |
| workers | 21 | $\mathbf{1 9 . 4}$ |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## QUIZ: We made a quiz.

The table below shows the distribution of the study sample according to QUIZ, we notice that ( $10.2 \%$ ) of the study sample answered box for birds to make nests in, (23.1\%) answered serious mistake, ( $40.7 \%$ ) answered set of questions and $(25.9 \%)$ answered thing to hold arrows.

Table (4.36) Distribution of study sample according to QUIZ

|  | Frequency | Percent |
| :---: | :---: | :---: |
| box for birds to make nests in | $\mathbf{1 1}$ | $\mathbf{1 0 . 2}$ |
| serious mistake | $\mathbf{2 5}$ | $\mathbf{2 3 . 1}$ |
| set of questions | $\mathbf{4 4}$ | $\mathbf{4 0 . 7}$ |
| thing to hold arrows | $\mathbf{2 8}$ | $\mathbf{2 5 . 9}$ |

## CRAB: Do you like crabs?

The table below shows the distribution of the study sample according to CRAB, we notice that ( $6.5 \%$ ) of the study sample answered large black insects that sing at night, ( $42.6 \%$ ) answered sea creatures that walk sideways, (28.7\%) answered tight, hard collars and ( $22.2 \%$ ) answered very thin small cakes.

Table (4.37) Distribution of study sample according to CRAB

|  | Frequency | Percent |
| :---: | :---: | :---: |
| large black insects that sing at night | $\mathbf{7}$ | $\mathbf{6 . 5}$ |
| sea creatures that walk sideways | $\mathbf{4 6}$ | $\mathbf{4 2 . 6}$ |
| tight, hard collars | $\mathbf{3 1}$ | 28.7 |
| very thin small cakes | $\mathbf{2 4}$ | $\mathbf{2 2 . 2}$ |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

VOCABULARY: You will need more vocabulary.
The table below shows the distribution of the study sample according to VOCABULARY, we notice that (10.2\%) of the study sample answered guns, (12\%) answered money, ( $29.6 \%$ ) answered skill and (48.1\%) answered words.

Table (4.38) Distribution of study sample according to VOCABULARY

|  | Frequency | Percent |
| :---: | :---: | :---: |
| guns | 11 | 10.2 |
| money | 13 | 12.0 |
| skill | 32 | 29.6 |
| words | 52 | 48.1 |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## REMEDY: We found a good remedy.

The table below shows the distribution of the study sample according to REMEDY, we notice that (31.5\%) of the study sample answered place to eat in public, (11.1\%) answered rule about numbers, (37\%) answered way to fix a problem and (20.4\%) answered way to prepare food.

Table (4.39) Distribution of study sample according to REMEDY

|  | Frequency | Percent |
| :---: | :---: | :---: |
| place to eat in public | 34 | 31.5 |
| rule about numbers | 12 | 11.1 |
| way to fix a problem | 40 | 37.0 |
| way to prepare food | 22 | 20.4 |
| Total | 108 | $100 \%$ |

## ALLEGE: They alleged it.

The table below shows the distribution of the study sample according to ALLEGE, we notice that ( $16.7 \%$ ) of the study sample answered argued against the facts that supported it, (28.7\%) answered claimed it without proof, (31.5\%) answered provided facts to prove it and (23.1\%) answered stole the ideas for it from someone else.

Table (4.40) Distribution of study sample according to ALLEGE

| argued against the facts that supported it | Frequency | Percent |
| :---: | :---: | :---: |
| claimed it without proof | 31 | 16.7 |
| provided facts to prove it | $\mathbf{3 4}$ | $\mathbf{3 1 . 7}$ |
| stole the ideas for it from someone else | 25 | 23.1 |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0} \%$ |

Fifth 1000

## DEFICIT: The company had a large deficit.

The table below shows the distribution of the study sample according to DEFICIT, we notice that (13\%) of the study sample answered had a lot of money in the bank, (36.1\%) answered had a plan for spending that used a lot of money, also ( $36.1 \%$ ) answered spent more money than it earned and ( $14.8 \%$ ) answered went down in value.

Table (4.41) Distribution of study sample according to DEFICIT

|  | Frequency | Percent |
| :---: | :---: | :---: |
| had a lot of money in the bank | $\mathbf{1 4}$ | $\mathbf{1 3 . 0}$ |
| had a plan for spending that used a lot of money | $\mathbf{3 9}$ | $\mathbf{3 6 . 1}$ |
| spent more money than it earned | 39 | $\mathbf{3 6 . 1}$ |
| went down in value | $\mathbf{1 6}$ | $\mathbf{1 4 . 8}$ |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## WEEP: He wept.

The table below shows the distribution of the study sample according to WEEP, we notice that ( $31.5 \%$ ) of the study

## 

sample answered cried, (18.5\%) answered died, (31.5\%) answered finished his course and (18.5\%) answered worried.

Table (4.42) Distribution of study sample according to WEEP

|  | Frequency | Percent |
| :---: | :---: | :---: |
| cried | $\mathbf{3 4}$ | 31.5 |
| died | 20 | 18.5 |
| finished his course | $\mathbf{3 4}$ | $\mathbf{3 1 . 5}$ |
| worried | $\mathbf{2 0}$ | $\mathbf{1 8 . 5}$ |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

NUN: We saw a nun.
The table below shows the distribution of the study sample according to NUN, we notice that (22.2\%) of the study sample answered long thin creature that lives in the earth, (29.6\%) answered terrible accident, (12\%) answered unexplained bright light in the sky and (36.1\%) answered woman following a strict religious life.

Table (4.43) Distribution of study sample according to NUN

|  | Frequency | Percent |
| :---: | :---: | :---: |
| long thin creature that lives in the <br> earth | $\mathbf{2 4}$ | 22.2 |
| terrible accident | $\mathbf{3 2}$ | 29.6 |
| unexplained bright light in the sky | 13 | 12.0 |
| woman following a strict religious <br> life | $\mathbf{3 9}$ | $\mathbf{3 6 . 1}$ |
| Total | $\mathbf{1 0 8}$ | $100 \%$ |

## HAUNT: The house is haunted.

The table below shows the distribution of the study sample according to HAUNT, we notice that (15.7\%) of the study sample answered empty, ( $42.6 \%$ ) answered full of ghosts, (20.4\%) answered full of ornaments and (21.3\%) answered rented.

Table (4.44) Distribution of study sample according to HAUNT

|  | Frequency | Percent |
| :---: | :---: | :---: |
| empty | 17 | 15.7 |
| full of ghosts | 46 | 42.6 |
| full of ornaments | 22 | 20.4 |
| rented | 23 | 21.3 |
| Total | 108 | $100 \%$ |

## COMPOST: We need some compost.

The table below shows the distribution of the study sample according to COMPOST, we notice that (29.6\%) of the study sample answered hard stuff made of stones and sand stuck together, ( $24.1 \%$ ) answered help to feel better, (19.4\%) answered rotted plant material and (26.9\%) answered strong support.

## Table (4.45) Distribution of study sample according to COMPOST

|  | Frequency | Percent |
| :---: | :---: | :---: |
| hard stuff made of stones and sand stuck <br> together | 32 | 29.6 |
| help to feel better | 26 | 24.1 |
| rotted plant material | 21 | 19.4 |
| strong support | 29 | 26.9 |
| Total | 108 | $100 \%$ |

## CUBE: I need one more cube.

The table below shows the distribution of the study sample according to CUBE, we notice that ( $8.3 \%$ ) of the study sample answered piece of stiff paper folded in half, (27.8\%) answered sharp thing used for joining things, (47.2\%) answered solid square block and (16.7\%) answered tall cup with no saucer.

Table (4.46) Distribution of study sample according to CUBE

| piece of stiff paper folded in half | Frequency | Percent |
| :---: | :---: | :---: |
| sharp thing used for joining |  |  |
| things |  |  |

MINIATURE: It is a miniature.
The table below shows the distribution of the study sample according to MINIATURE, we notice that ( $9.3 \%$ ) of the study sample answered a small line to join letters in handwriting, ( $22.2 \%$ ) answered a very small living creature, (43.5\%) answered a very small thing of its kind and (25\%) answered an instrument to look at small objects.
Table (4.47) Distribution of study sample according to MINIATURE

|  | Frequency | Percent |
| :---: | :---: | :---: |
| a small line to join letters in handwriting | 10 | 9.3 |
| a very small living creature | 24 | 22.2 |
| a very small thing of its kind | 47 | 43.5 |
| an instrument to look at small objects | 27 | $\mathbf{2 5 . 0}$ |
| Total | 108 | $\mathbf{1 0 0 \%}$ |

## PEEL: Shall I peel it?

The table below shows the distribution of the study sample according to PEEL, we notice that (19.4\%) of the study sample answered cut it into thin pieces, $(22.2 \%)$ answered let it sit in water for a long time, also ( $22.2 \%$ ) answered make it white and (36.1\%) answered take the skin off it.

Table (4.48) Distribution of study sample according to PEEL

|  | Frequency | Percent |
| :---: | :---: | :---: |
| cut it into thin pieces | 21 | 19.4 |
| let it sit in water for a long time | 24 | 22.2 |
| make it white | 24 | 22.2 |
| take the skin off it | $\mathbf{3 9}$ | $\mathbf{3 6 . 1}$ |
| Total | $\mathbf{1 0 8}$ | $\mathbf{1 0 0 \%}$ |

## FRACTURE: They found a fracture.

The table below shows the distribution of the study sample according to FRACTURE, we notice that ( $43.5 \%$ ) of the study sample answered break, ( $7.4 \%$ ) answered rare jewel, ( $16.7 \%$ ) answered short coat and ( $32.4 \%$ ) answered small piece.
Table (4.49) Distribution of study sample according to FRACTURE

|  | Frequency | Percent |
| :---: | :---: | :---: |
| break | 47 | 43.5 |
| rare jewel | 8 | 7.4 |
| short coat | 18 | 16.7 |
| small piece | 35 | 32.4 |
| Total | 108 | $100 \%$ |

## BACTERIUM: They didn't find a single bacterium in it.

The table below shows the distribution of the study sample according to BACTERIUM, we notice that ( $21.3 \%$ ) of the study sample answered animal that carries water on its back, ( $23.1 \%$ ) answered plant with red or orange flowers, (43.5\%) answered small living thing causing disease and (12\%) answered thing that has been stolen and sold to a shop.
Table (4.50) Distribution of study sample according to BACTERIUM

|  | Frequency | Percent |
| :---: | :---: | :---: |
| animal that carries water on its back | 23 | 21.3 |
| plant with red or orange flowers | 25 | 23.1 |
| small living thing causing disease | 47 | 43.5 |
| thing that has been stolen and sold to a shop | 13 | 12.0 |
| Total | 108 | $\mathbf{1 0 0} \%$ |

## rVN

## Research Questions

## Question 1/ What is the size of vocabulary

 knowledge among Saudi learners?Table (4.51): Descriptive statistics

|  | Mean | Std. Deviation | Std. Error |
| :---: | :---: | :---: | :---: |
| Size Test | $\mathbf{1 8 . 3 0}$ | 11.01 | 1.06 |

The table above showed the size of vocabulary knowledge among Saudi learners, and it was found that the Mean vocabulary knowledge is 18.30 with a standard deviation of 11.01 .

## Questions 2/ What is the depth of vocabulary

 knowledge among Saudi learners?Table (4.52): Descriptive statistics

|  | Mean | Std. Deviation | Std. Error |
| :---: | :---: | :---: | :---: |
| Depth Test | $\mathbf{6 8 . 7 0}$ | $\mathbf{2 4 . 0 8}$ | $\mathbf{2 . 3 2}$ |

The table above showed the depth of vocabulary knowledge among Saudi learners, and it was found that the Mean vocabulary knowledge is 68.70 with a standard deviation of 24.08
Questions 3/ what is the relationship between the
size and depth of vocabulary knowledge among Saudi learners?

Table (4.53): Pearson correlation coefficient

|  |  | Size Test |
| :---: | :---: | :---: |
| Depth Test | Pearson correlation | $\mathbf{0 . 7 9 6 * *}$ |
|  | Sig. | $\mathbf{0 . 0 0 0}$ |

The table above showed that Sig. value less than ( 0.05 ), so correlation coefficient is sign, so There is a statistically significant high positive relationship at ( $\alpha \leq 0.05$ ) between the size and depth of vocabulary knowledge among Saudi learners.

## 「V9

## Effect of Size Test on Depth Test

The table below shows the result of the Effect of Size Test on Depth Test, which indicates that (i) The correlation coefficient was 0.796 which indicates that there is positive significant relationship between Size Test and Depth Test. (ii) The Regression coefficient of independent variables a significance level was 0.00 and it's lower than 0.05 , then we can say that there is a significant effect at the 0.05 level of " Size Test on Depth Test". (iii) The R square value $63.3 \%$, means that ( $63.3 \%$ ) of the changes in Depth Test are caused by Size Test.

Table (4.54): Effect of Size Test on Depth Test

| Independent Variable | Regression <br> Coefficients |  |  | R | $\begin{gathered} \text { R- } \\ \text { square } \end{gathered}$ | F | Sig. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | B | t | Sig. |  |  |  |  |
| Constant | 36.86 | 1344 | 000 |  |  | 183.22 |  |
| Size Test | 1740 | 1354 | 000 | 0.796 | 0.633 | ** | 0000 |

## Discussion

The current study aims to investigate the relationship between the size and depth of vocabulary knowledge among Saudi learners. After data collection by applying the tests among the sample of the study. The findings showed that the mean of the size of vocabulary knowledge among Saudi learners is (18.30) from (50), which means that they have a low level of the size of vocabulary knowledge. This result deals with a study done by Al-Nujaidi (2003) who concluded that Saudi students have a rather limited vocabulary. Also, it agrees with Canga Alonso (2013) who found that majority of the students could have issues understanding written and spoken dialogue in English due to low scores on the receptive vocabulary level test. In fact, vocabulary size should be increased, as the amount of vocabulary one knows plays a

## r 1 .

significant role in predicting their reading comprehension capacity，and this has been demonstrated by numerous studies

In addition，it was found that the mean of the depth of vocabulary knowledge among Saudi learners is（68．70）from 160 ，which means that they have a low level of the depth of vocabulary knowledge．For the relationship between size and depth，the findings showed that there is a statistically significant high positive relationship between the size and depth of vocabulary knowledge among Saudi learners．This result deals with Qian＇s（1998；1999；2002）findings which revealed that there are high intercorrelations between vocabulary size，depth of vocabulary knowledge．Therefore， this confirms what Milton（2009）empirically argues that these two dimensions（size and depth）are not separable and that they might be closely related．Also，Qian（1999，2002） confirmed that the two concepts of breadth and depth，while stated in different ways，are philosophically and experimentally connected．Vocabulary breadth and depth were found to have significant associations，respectively， among L2 university students．Akbarian（2010）also found that vocabulary size and depth might be accounted for by the same factors，especially as the learners＇proficiency increases． However，this result disagrees with Schmitt（2014）who found that there is often a chasm between size and depth， with depth measures trailing behind size measures，for lower frequency terms and for greater vocabulary sizes．The link between size and some forms of word knowledge（such as derivative knowledge）appears to be weaker than with other forms of word knowledge．In the end，we note that what distinguishes the current study is its handling of the issue of the relationship between size and depth，unlike previous studies that dealt with the relationship between size and other
variables, depth and other variables in language such as reading comprehension, writing ability, linguistic fluency, and academic performance. In addition, In most of the previous studies, study tools were applied to a sample of university students, but in this study, the volume and depth tests were applied to a sample of high school students, as very strong associations support the idea that breadth and depth are complementary aspects of vocabulary knowledge. Thus, breadth\size benefits from depth, and vice versa.

## Conclusion

To conclude, Anderson and Freebody (1981) stated that a person's vocabulary depth is the quality or depth of their understanding, whereas vocabulary size is measured by the number of words that the individual knows at least some of the significant components of the meaning. A person's vocabulary depth indicates how well they know these words, whereas vocabulary size describes how many words they know. Therefore, this study aims to investigate the relationship between the size and depth of vocabulary knowledge among Saudi learners. The researcher randomly chose (108) third secondary students at King Saud High School in Taif to be the sample of the study. To collect data, the researcher used two tests; Vocabulary Level Test (VLT) to measure the size of vocabulary knowledge among the students. The other one was Word Associated Test (WAT) to measure the depth of the vocabulary knowledge among the students. The findings of the study showed that there is a statistically significant high positive relationship between the size and depth of vocabulary knowledge among Saudi learners. In addition, there is a significant effect of " Size Test" on "Depth Test ".

## 「イ

## Recommendations

－Saudi learners need for more support and concentration in their English study regarding their vocabulary learning．
－Teachers should encourage students to use dictionaries and care about their acquisition of vocabulary
－Teaching technical and low－frequency terms as recommended by Nation and Chung（2009）to increase the size of vocabulary knowledge among the students so that they can achieve a high coverage rate in reading．
－Unfortunately，many foreign language classrooms suffer from a lack of preparation，which can result in students＇ incapacity to effectively use the vocabulary they have acquired．So Saudi Ministry of education should develop these classes to help students in enhancing their vocabulary size and depth．As the four pillars of vocabulary development proposed by Nation $(2001,2007)$ are Meaning－focused input，Meaning－focused output， Language－focused learning and Fluency development．
－Practice makes perfect，so students should practice vocabulary exercises which center on reinforcing the connection between form and meaning．
－Using language through speech and writing is a form of meaning－focused output，so students should write and speak to use the new learnt words to master them．

## Suggestions for future Research

－It is suggested that future research investigate the discrepancy between the expected and actual vocabulary sizes by analyzing the vocabulary coverage of the entire program and the expected learned vocabularyby the end of it．
－Further research also is needed to be conducted about the relationship between size and depth and about how to improve these two dimensions among the Saudi learners．

## References

- Abedi, D. (2017). The relationship between depth of vocabulary knowledge and reading comprehension of Iranian EFL learners. Journal of Applied Linguistics and Language Research, 4(4), 224229.
- Afshari, S. \& Tavakoli, M. (2017). The Relatioship between Depthand Breadth of Vocabulary Knowledge and Ira $\neg$ nian EFL Learners' Listening Comprehension. Interna $\rightarrow$ tional Journal of Research Studies in Language Learnㄱing Volume 6 Number 3, 1324
- Akbarian, I. H. (2010). The relationship between vocabulary size and depth for ESP/EAP learners. System, 38(3), 391-401.
- Alderson, J. C. (2005). Diagnosing foreign language proficiency. London: Continuum.
- Alfatle, A. (2016)."Investigating the Growth of Vocabulary Size And Depth Of Word Knowledge In Iraqi Foreign Language Learners Of English". MSU Graduate The $\cos$ ses. 2230.
- Al-Khasawneh, F. (2019). The Impact of Vocabulary Knowl־edge on the Reading Comprehension of Saudi EFL Learners. Journal of Language and Education, 5 (3), 24-34.
- Al-Nujaidi, A. (2003). The relationship between vocabulary size, reading strategies, and reading comprehension of EFL learners in Saudi Arabia. (Unpublished Doctoral Thesis, Oklahoma State University, Stillwater).
- Alqarni, I. R. (2019). Receptive vocabulary size of male and female Saudi English major graduates. International Journal of English Linguistics, 9(1), 111-119.
- Altalhab, S. (2019). The Vocabulary Knowledge of Saudi EFL Tertiary Students. English Language Teaching; Vol. 12, No. 5; 2019 ISSN 1916-4742
- Alzahrani, S., Rashid, S., Fung, Y., \& Jalaluddin, H. (2021). The Relationship between Vocabulary Size and Reading Comprehension:A Case Study on Saudi High School EFL Learners. Psychology \& Education. 58(4): 315-319
- Anderson, R. C., \& Freebody, P. (1981). Vocabulary knowledge. In J. Guthrie (Ed.), Comprehension and teaching: Research teviews (pp. 77-117). Newark, Del.: International Reading Association.
- Anjomshoa, L., \& Zamanian, M. (2014). The effect of vocabulary knowledge on reading comprehension of Iranian EFL learners in Kerman Azad University. International Journal on Studies in English Language and Literature, 2(5), 90-95.
- Atai, M. R., \& Nikuinezhad, F. (2012). Vocabulary breadth, depth, and syntactic knowledge: Which one is a stronger predictor of


## 个 人 $\varepsilon$

foreignlanguage reading performance. Iranian Journal of Applied Linguistics(IJAL), 15(1), 1-18.

- Atai, M., \& Nikuinezhad, F. (2012). Vocabulary breadth, depth, and syntactic knowledge: Which one is a stronger predictor of foreign language reading performance? Iranian Journal of Applied Linguistics,15(41), 1-18.
- Binder, K. Cote, K., Lee, C., Bessette, E.and Vu, H. (2018). Beyond breadth: The contributions of vocabulary depth to reading comprehension among skilled readers. J Res Read. 2017 August; 40(3): 333-343.
- Boers, F., Eyckmans, J., Kappel, J., Stengers, H., \& Demecheleer, M. (2006). Formulaic sequences and perceived oral proficiency: Putting a lexical approach to the test. Language Teaching Research, 10, 245-261.
- Bogaards, P., \& Laufer, B. (Eds.). (2004). Vocabulary in a second language: Selection, acquisition, and testing (Vol. 10). John Benjamins Publishing.
- Bonk, W. J. (2001). Testing ESL learners' knowledge of collocations. In T. Hudson \& J. D. Brown (Eds.), A focus on language test development (pp. 113-142). Honolulu: University of Hawai'i, Second Language Teaching and Curriculum Center.
- Chapelle, C. A. (1994). Are C-tests valid measures for L2 vocabulary research? Second language research, 10(2), 157-187.
- Chui, A. S. Y. (2006). A study of the English vocabulary knowledgeof university students in Hong Kong. Asian Journal of English Language Teaching, 16, 1-23.
- Cobb, T. (2007). Computing the vocabulary demands of L2 reading.
- Language Learning \& Technology, 11(3), 38-63.
- Coxhead, A. (2000). A new Academic Word List. TESOL Quarterly, 34, 213-238.
- Crossley, S., Salsbury, T., \& McNamara, D. (2010). The development of polysemy and frequency use in English second language speakers. Language Learning, 60, 573-605.
- Daller, H., Milton, J., \& Treffers-Daller, J. (2007). Editor's introduction. In H. Daller, J. Milton, \& J. Treffers-Daller (Eds.), Modelling and assessing vocabulary knowledge (pp. 1-32). Cambridge, UK: Cambridge University Press.
- De Bot, K. (1992). A bilingual production model: Levelt's speaking model adapted. Applied Linguistics, 13, 1-24.
- Dóczi, B., \& Kormos, J. (2016). Longitudinal developments in vocabulary knowledge and lexical organization. New York: Oxford University Press.


## .

- Ellis, R. (2009). Editorial. Language Teaching Research, 13, 333335.
- Fan, M. (2000). How big is the gap and how to narrow it? An investigation into the active and passive vocabulary knowledge of L2 learners. RELC Journal, 31, 105-119.
- Farvardin, M. T., \& Koosha, M. (2011). The role of vocabulary knowledge in Iranian EFL students' reading comprehension performance: Breadth or depth? Theory and Practice in Language Studies, 1, 1575-1580.
- Fellows, R., and Liu, A., (2007). Research methods for construction.
- Blackwell Science Ltd., Osney Mead, Oxford OX2 OEL, UK.
- George D. and Mallery P., (2003), SPSS for window Step by Step, fourth edition.
- Gu, T. (2017). The Effect of Vocabulary Knowledge on Chi nnese English Learners' Reading Comprehension. In $\neg$ ternational Journal of English Linguistics, 7(4), 45-55.
- Güngör, F., \& Yayli, D. (2016). The Interplay between Text-Based Vocabulary Size and Reading Comprehension of Turkish EFL Learners. Educational Sciences: Theory and Practice, 16(4), 11711188.
- Gyllstad, H., Vilkaite, L. \& Schmitt, N. (2015) Assessing vocabulary size through multiple choice formats: issues with guessing and sampling rates. ITL - International Journal of Applied Linguistics, 166(2), 278-306.
- Haastrup, K., \& Henriksen, B. (2000). Vocabulary acquisition: Acquiring depth of knowledge through network building. InternationalJournal of Applied Linguistics, 10(2), 221-240.
- Harrington, M. (2006). The lexical decision task as a measure of L2 lexical proficiency. EUROSLA Yearbook, 6, 147-168.
- Harrington, M., \& Carey, M. (2009). The on-line Yes/No test as a placement tool. System, 37, 614-626.
- Henriksen, B. (2013). Research on L2 learners' collocational competence and development - a progress report. In C. Bardel, C. Lindqvist, \& B. Laufer (Eds.), L2 vocabulary acquisition, knowledge and use: New perspectives on assessment and corpus analysis (pp. 29-56).
- Horst, M. (2010). How well does teacher talk support incidental vocabulary acquisition? Reading in a Foreign Language, 22(1), 161180.
- Hu, H. M., \& Nation, P. (2000). What vocabulary size is needed to read unsimplified texts. Reading in a Foreign Language, 8, 689-696.
- Huang, H-F. (2006). Breadth and depth of English vocabulary


## 「人7

knowledge: Which really matters in the academic reading performanceof Chinese university students? Unpublished master's thesis. Montreal, Canada: McGill University.

- Huckin, T., \& Coady, J. (1999). Incidental vocabulary acquisition in a second language. Studies in second language acquisition, 21(02), 181- 193.
- Ishii, T., \& Schmitt, N. (2009). Developing an integrated diagnostic test of vocabulary size and depth. RELC, 40(1), 5-22.
- Jafaripour, E., Ghavami, A and Sepahvand, H. (2018). The Relationship between Vocabulary Knowledge and EFL Learners' Reading Comprehension Performance Tar $\neg$ geting Higher Levels of Bloom's Cognitive Domain. Journal of Applied Linguistics and Language Research Volume 5, Issue 4, pp. 20-24
- Kasim, U., \& Raisha, S. (2017). EFL students’ reading comprehensionproblems: Linguistic and non-linguistic complexities. English Education Journal, 8(3), 308-321.
- Kroll, J. F., Michael, E., Tokowicz, N., \& Dufour, R. (2002). The development of lexical fluency in a second language. Second Language Research, 18, 137-171.
- Laufer, B. (1989). What percentage of text-lexis is essential for comprehension? In C. Lauren \& M. Nordman (Eds.), Special language: From humans to thinking machines (pp. 316-323). Clevedon, UK: England: Multilingual Matters.
- Laufer, B., \& Goldstein, Z. (2004). Testing vocabulary knowledge: Size, strength, and computer adaptiveness. Language Learning, 54, 399-436.
- Laufer, B., \& Nation, P. (2001). Passive vocabulary size and speed of meaning recognition. EUROSLA Yearbook, 1, 7-28.
- Laufer, B., \& Paribakht, T. S. (1998). The relationship between passive and active vocabularies: Effects of language learning context. Language Learning, 48, 365-391.
- Laufer, B., \& Ravenhorst-Kalovski, G. C. (2010). Lexical threshold revisited: Lexical text coverage, learners' vocabulary size and reading comprehension. Reading in A Foreign Language, 22(1), 15.
- Laufer, B., \& Waldman, T. (2011). Verb-noun collocations in second language writing: A corpus analysis of learners' English. Language Learning, 61, 647-672.
- Laufer, B., Elder, C., Hill, K., \& Congdon, P. (2004). Size and strength: do we need both to measure vocabulary knowledge? Language Testing, 21(2), 202-226.
- Lee, C. and Rethinasamy, S. (2017). Breadth and Depth of Academic Vocabulary Knowledge: Assessing their roles in Academic Reading and Writing of English Language Learners. MJAL9:3Spring
- Lee, S. H. (2003). ESL learners' vocabulary use in writing and the effects of explicit vocabulary instruction. System, 31(4), 537-561.
- Levitzky-Aviad, T., \& Laufer, B. (2013). Lexical properties in the writing of foreign language learners over eight years of study: Single words and collocations. EUROSLA Monographs Series, 2, 127-148.
- Lindsay, S., \& Gaskell, M. G. (2010). A complementary systems account of word learning in L1 and L2. Language Learning, 60(Suppl.2), 45-63.
- Ma, Y., \& Lin, W. (2015). A study on the relationship between reading comprehension and English vocabulary knowledge. EducationResearch International, Article ID209154, 1-14.
- Martin-Chang, S.Y., \& Gould, O. N. (2008). Revising print exposure: Exploring differential links to vocabulary, comprehension and readingrate. Journal of Research in Reading, 31, 273-284.
- Matsuoka, W., \& Hirsh, D. (2010). Vocabulary learning through reading: Does an ELT course book provide good opportunities? Reading in a Foreign Language, 22(1), 56-70.
- McGavigan, P. (2009). The acquisition of fixed idioms in Greek learners of English as a foreign language. Unpublished Ph.D. dissertation. Swansea University, UK.
- Meara, P. (1997). Towards a new approach to modelling vocabulary acquisition. In N. Schmitt \& M. McCarthy (Eds.), Vocabulary: Description, acquisition, and pedagogy (pp. 109-121). Cambridge, UK: Cambridge University Press.
- Meara, P., \& Wolter, B. (2004). V_LINKS: Beyond vocabulary depth.In D. Albrechtsen, K. Haastrup, \& B. Henriksen (Eds.), Angles on the English-speaking world 4 (pp. 85-96). Copenhagen, Denmark:Museum Tusculanum Press.
- Mehrpour, S., Razmjoo, S. A., \& Kian, P. (2010). The relationship between depth and breadth of vocabulary knowledge and reading comprehension among Iranian EFL learners. Journal of English Language Teaching and Learning, 53(222), 97-127.
- Melka, F. (1997). Receptive vs. productive aspects of vocabulary. In
- N. Schmitt \& M. McCarthy (Eds.), Vocabulary: Description, acquisition, and pedagogy (pp. 84-102). Cambridge, UK: Cambridge University Press.
- Milton, J. (2009). Measuring second language vocabulary acquisition (Vol. 45). Multilingual Matters.
- Miralpeix, I., \& Meara, P. (2014). Knowledge of the written word. In
- J. Milton \& T. Fitzpatrick (Eds.), Dimensions of vocabulary knowledge (pp. 30-44). Basingstoke, UK: Palgrave Macmillan.


## 个人

- Mochida, K., \& Harrington, M. (2006). The Yes/No test as a measure of receptive vocabulary knowledge. Language Testing, 23(1), 73-98.
- Mochizuki, M., \& Aizawa, K. (2000). An affix acquisition order for EFL learners: An exploratory study. System, 28, 291-304.
- Moghadam, S. (2012). The relationship between Breadth and depth of vocabulary knowledge And Reading Com $ᄀ$ prehension. Master of Education. Faculty of Education Universiti Teknologi Malaysia.
- Mohammed, Q., \& Rashid, R. (2019). The sources of reading comprehension difficulties among Saudi EFL learners. Trends in Social Sciences, 1(1), 7-16.
- Nagy, W. E. (1988). Teaching vocabulary to improve reading comprehension. Illinois: National Council of Teachers of English
- Nagy, W. E., \& Herman, P. A. (1987). Breadth and depth of vocabulary knowledge: Implications for acquisition and instruction. The Nature of Vocabulary Acquisition, 19, 35.
- Nagy, W. E., Diakidoy, I. A. N., \& Anderson, R. C. (1993). The acquisition of morphology: Learning the contribution of suffixes to themeanings of derivatives. Journal of Reading Behavior, 25, 155170. Nagy, W. E., Herman, P. A., \& Anderson, R. C. (1985). Learning words from context. Reading research quarterly, 233-253.
- Naoum, S.G., (2007), "Dissertation research and writing for construction student Reed educational and professional publishing Ltd.
- Nassaji, H. (2006). The relationship between depth of vocabulary knowledge and L2 learners' lexical inferencing strategy use and success. The Modern Language Journal, 90(3), 387-401.
- Nation, I. S. (2013). Learning Vocabulary in Another Language Google eBook. Cambridge: Cambridge University Press
- Nation, I. S. P. \& Webb, S. (2011). Researching and analyzing Vocabulary. Boston: Heinle Cengage Learning.
- Nation, I. S. P. (2001). Learning vocabulary in another language.
- Cambridge, UK: Cambridge University Press.
- Nation, I. S. P. (2006). How large a vocabulary is needed for reading and listening? Canadian Modern Language Review, 63, 59-82.
- Nation, I.S.P. \& Beglar, D. (2007) A vocabulary size test. The Language Teacher, 31(7), 9-13.
- Nemati, A. (2010). Active and passive vocabulary knowledge: The effect of years of instruction. Asian EFL Journal, 12, 30-46.
- Nizonkiza, D. (2012). Quantifying controlled productive knowledgeof collocations across proficiency and word frequency levels. Studies in Second Language Learning and Teaching, 2, 67-


## r^q

## 

92. 

- Nordlund, M. (2016). EFL textbooks for young learners: A comparative analysis of vocabulary. Education Inquiry, 7(1), 47-68
- Norman, Geoff (2010) Levels of measurement and the "laws" of statistics. Adv. in Health Sci Educ. (vol (15.), Springer Science Business Media B.V. DOI 10.1007/s 10459-010-9222-y. Noro, T. (2002). The roles of depth and breadth of vocabulary knowledge in reading comprehension in EFL. ARELE, 13, 71-80.
- Nouri, N., \& Zerhouni, B. (2016). The relationship bentween vocabulary knowledge and reading comprehen ssion among MoroccanEFL learners. Journal of Hu-manities and Social Science, 21 (10), 19-26.
- Nurweni, A., \& Read, J. (1999). The English vocabulary knowledgeof Indonesian university students. English for Specific Purposes, 18, 161-175.
- Osterhout, L., McLaughlin, J., Pitk"anen, I., Frenck-Mestre, C., \& Molinaro, N. (2006). Novice learners, longitudinal designs, and event-related potentials: A means for exploring the neurocognition of secondlanguage processing. Language Learning, 56 (Suppl. 1), 199-230.
- Ostyn, P., \& Godin, P. (1985). RALEX: An alternative approach tolanguage teaching. The Modern Language Journal, 69(4), 346-354 92.Paribakht, T. S. (2004). The Role of Grammar in Second Language Lexical Processing. RELC Journal, 35(2), 149-160.
- Paribakht, T. S., \& Wesche, M. (1997). Vocabulary enhancement activities and reading for meaning in second language vocabulary acquisition. In J. Coady \& T. Huckin (Eds.), Second language vocabulary acquisition (pp. 174-200). Cambridge, UK: Cambridge University Press.
- Pearson, P., Hiebert, E., \& Kamil, M. (2007). Vocabulary assessment: What we know and what we need to learn. Reading Research Quarterly, 42(2), 282-296.
- Pellicer-Sánchez, A. \& Schmitt, N. (2012). Scoring Yes-No vocabulary tests: Reaction time vs. nonword approaches. Language Testing, 29(4), 489-509.
- Qian, D. D. (1998). Depth of vocabulary knowledge: Assessing its role in adults' reading comprehension in English as a second language(Unpublished doctoral dissertation). University of Toronto, Toronto, Ontario, Canada.
- Qian, D. D. (1999). Assessing the roles of depth and breadth of vocabulary knowledge in reading comprehension. The Canadian Modern Language Review, 56(2), 282-308.
- Qian, D. D. (2000). Validating the role of depth of vocabulary


## 而

knowledge in assessing reading for basic comprehension [TOEFL 2000 Research Report]. Princeton, NJ: Educational Testing Service.

- Qian, D. D. (2002). Investigating the relationship between vocabulary knowledge and academic reading performance: An Assessment Perspective. Language Learning, 52(3), 513-536.
- Qian, D. D., \& Schedl, M. (2004). Evaluation of an in-depth vocabulary knowledge measure for assessing reading performance. Language Testing, 21(1), 28-52.
- Read, J. (1998). Validating a test to measure depth of vocabulary knowledge. In A. J. Kunnan (Ed.), Validation in Language Assessment (pp. 41-60). Mahwah, NJ: Lawrence Erlbaum.
- Read, J. (2000). Assessing vocabulary. Cambridge: Camっbridge University Press.
- Read, J. (2007). Second language vocabulary assessment: Current practices and new directions. International Journal of English Studies, 7(2), 105-125.
- Riadil, I. (2020). Investigating EFL learners' readingcomprehension problems and strategies in Tidar University. Journal of English Language and Language Teaching, 4(1), 48-58.
- Schmitt, N. (2010). Researching vocabulary: a vocabulary research manual. Houndmills, Basingstoke, Hampshire; New York: Palgrave Macmillan.
- Schmitt, N. (2014). Size and depth of vocabulary knowledge: What the research shows. Language learning, 64(4), 913-951.
- Schmitt, N., Jiang, X., \& Grabe, W. (2011). The percentage of words known in a text and reading comprehension. The Modern Language Journal, 95(1), 26-43.
- Schmitt, N., Schmitt, D., \& Clapham, C. (2001). Developing and exploring the behaviour of two new versions of the Vocabulary Levels Test. Language Testing, 18(1), 55-88.
- Stæhr, L. S. (2008). Vocabulary size and the skills of listening, reading and writing. Language Learning Journal, 36(2), 139-52.
- Sternberg, R. J. (1987). Most vocabulary is learned from context. The nature of vocabulary acquisition, 89-105.
- Susanto, A. (2017). The teaching of vocabulary: A perspective. Jurnal Kata: Penelitian Tentang Ilmu Bahasa Dan Sastra, 1(2), 182-191.
- Thornbury, S. (2002). How to teach vocabulary. London: Longman.
- Tran, A.H., Tremblay, K.A. \& Binder, K.S. (2020). The Fachtor Structure of Vocabulary: An Investigation of Breadth and Depth of Adults with Low Literacy Skills. J Psyᄀcholinguist Res 49, 335-350.
- Wesche, M., \& Paribakht, T. S. (1996). Assessing second language vocabulary knowledge: Depth versus breadth. Canadian Modern


## अq)

Language Review， 53 （1），13－40
－Wolter，B．W．（2005）．V－Links：A new approach to assessing depth of word knowledge（Doctoral dissertation，University of Wales Swansea）．
－Zhang，L．J．，\＆Anual，S．B．（2008）．The role of vocabulary in reading comprehension：The case of secondary school students learning English in Singapore．RELC，39（1），51－76．
－Zhan－Xiang，M．（2004）．The necessity of intensifying English vocabulary teaching in the remote minority area college English teaching．Asian EFL Journal，6（2），25－31．

## 米米米米

