Memorizing Qur'an and Mathematics Achievement

Nuqthy Faiziyah
Departement of Mathematics Education
University of Muhammadiyah Surakarta, UMS
Surakarta, Indonesia
e-mail: nuqthy.faiziyah@ums.ac.id

Abstract

The aim of this research is to know the correlation between memorizing Qur'an and mathematics learning achievement. It is a quantitative research using linear regression. The sample was taken by purpose sampling technic and an elementary school in Sragen was chosen. The data source was a document of the mathematics subject mark and the number surah memorized. The result shows that there is a correlation between memorizing Qur'an and mathematics learning achievement. The regression linear model was able to be built. The coefficient of regression is 1.024. This shows that memorizing one surah of Qur'an more would make the mathematics learning achievement increases at 1.024 point. The coefficient of determination is 0.365. The conclusion is that memorizing Qur'an has contribution to mathematics learning achievement This electronic document is a "live" template and already defines the components of your paper [title, text, heads, etc.] in its style sheet.

Keywords : mathematics, Qur'an, memorizing, learning achievement

INTRODUCTION

After the text edit has been completed, the paper is ready for the template. Duplicate the template file by using the Save As command, and use the naming convention prescribed by your conference for the name of your paper. In this newly created file, highlight all of the contents and import your prepared text file. You are now ready to style your paper; use the scroll down window on the left of the MS Word Formatting toolbar.

Qur'an is the holy book of Islam. It is the words of Allah, the Lord in Islam, was revealed to prophet Muhammad Peace be Upon Him (PBUH). He teach his companions Qur'an by memorization. Allah Most High and Exalted has makes it easy for people to memorize the Qur'an. He also preserves its contents so that the Qur'an is protected from changes and any kind of abuse and changes (Hasyim, 2015). In preserving Qur'an, Allah involves His servants. It means that Allah gives His grace to His servants to get involved in maintaining Qur'an (Mas'udi, 2012). Memorizing the Qur'an is an effort to preserve Qur'an, to prevent a loss quantity of people to memorize the Qur'an also avoid any attempt to distort and falsify the Qur'an (Hasyim, 2015).

Nowadays, memorizing Qur'an has becoming more popular. There are many education institution offer memorizing Qur'an as a superior program. The institution are formal institution such as private school and Islamic school and non-formal institution

such as boarding school. The trend, then, bring up a critical question whether memorizing Qur'an has positive effect to other aspects of education.

There have been various research conducted on correlation between reading and memorizing the Quran and various psychological variables, including anxiety, stress and mental helath.Thus, this study was aimed to investigate Qur'an memorization, it correlation to mathematical achievement.

RESEARCH METHOD

There are several researches about memorizing Qur'an. Some of them related memorizing Qur'an to academic achievement. A quantitative research revealed that memorizing Qur'an gives impact to achievement of Arabic lesson of students (Rosidah, 2015). Another research, an experimental research which was giving memorizing Qur'an lesson. Academic achievement before the lesson was compared to after lesson one. The result was a significantly difference. It was also showed that there was positive impact in socio-culture life of the one who commit to memorize Qur'an (Nawaz, 2015).

An action research of cognitive skill enhancement through memorizing Qur'an in Qur'an Hadith lesson. A change is showed after second cycle where the initial average of cognitive score increased from 75 to 80. The rate of active students also increased (Dhomiroh, 2015). A correlational found the correlation between intensity of memorizing Qur'an and self-control. It stated in conclusion that there is a positive correlation and the coefficient correlation is 0.587(Maliki, 2009).

This research is a quantitative research held in 2016 at Lukmanul Hakim elementary school in Sragen regency. Data was collected by documentation. There was two particular documentations, the amount of surah memorized by students and mathematics achievement score taken from middle examination. This is a correlational and predictive research. A correlational research is looking for the correlation between memorizing Qur'an to mathematical achievement

RESULT

The data was taken form 54 students of mathematics achievement score and the number of surah in Qur'an memorized. Data processing utilized IBM SPSS Statistic 21 computer program. Before doing regression analysis, the data was tested for normality and heteroskedasticity. Normality test hold by *plot*. The result showed that all data is near the line. It can be said that the data is normal distributed. Heteroskedasticity is tested by *Scatterplot*. The data is spreading and not forming a certain pattern as seen in Fig 1.
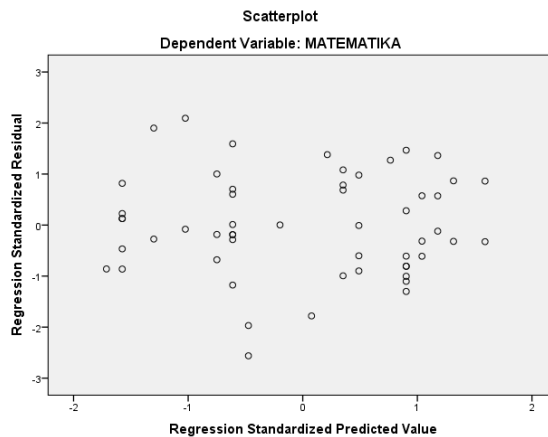
Fig.1 Scatterplot for Heteroskedastisity Test

The coefficient of correlation (R) is 0.596. This say that the number of surah memorized has positive correlation to mathematics achievement. The R-Square or the coefficient of determination is 0.356. It means that Qur'an memorization gives impact to mathematics achievement at 35.6% as shown by table 1.

TABLE 1. COEFFCIENT OF CORRELATION AND DETERMINATION

R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
.596[a]	.356	.343	10.11506	1.821

From Table 2, value of significant is 0.000. It is obviously less than 0.05. Therefore, the regression model in this research is a linear model. This also said that the model could be used to predict the dependent variable. On the other words, mathematics achievement could be predicted by the model

TABLE 2. ANOVA

Model	Sum of Squares	df	Mean Square	F	Sig.
Regression	2934.986	1	2934.986	28.686	.000[b]
Residual	5320.347	52	102.314		
Total	8255.333	53			

Hypothesis
H_0 : There is no influence Qur'an memorization to mathematics achievement
H_1: There is influence Qur'an memorization to mathematics achievement

The test criterion is H_0 accepted if sig > 0.05 or else H_0 is rejected

TABLE 3. COEFFICIENTS

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Collinearity Statistics	
	B	Std. Error	Beta			Tolerance	VIF
(Constant)	48.454	4.508		10.749	.000		
TAHFIDZ	1.024	.191	.596	5.356	.000	1.000	1.000

The table also describes that sig. is 0.000 or less than 0.05. It means that H0 is rejected. The conclution is that there is There is influence Qur'an memorization to mathematics achievement. The constant of Sub column B of unstandardized Coefficient is 48.454 while the Tahfidz variable is 1.024. From those number, the regression model could be constructed is $Y = 48.454 + 1.024X$

CONCLUSION:
Several points could be conclude from this research. These are the conclusion; 1) Memorizing Qur'an has positive correlation to achievement in mathematics. The coefficient correlation is 0.596; 2) Memorizing Qur'an gives impact to mathematics achievement at 35.6%. The rest is influenced by other variables.; 3) The regression model is Memorizing Qur'an give positive effect to mathematics achievement according to this research. It is recommended for Muslim students to make efforts to memorize Qur'an to enhance mathematics achievement.

REFERENCES

Dhomiroh. (2015). "Peningkatan Kemampuan Kognisi Siswa melalui Metode Tahfidh Juz 'Amma pada Pembelajaran Qur'an Hadits Kelas IV MI Al-Mu'min Desa Prawoto Kecamatan Sukolilo Kabupaten Pati". Semarang: Universitas Wahid Hasyim

Hashim, Azmil. (2015). "Correlation between Strategy of Tahfiz Learning Styles and Students Performance in Al-Qur'an Memorization (Hifz)". Mediterranean Journal of Social Sciences MCSER Publishing, Rome-Italy Vol 6 No 2 S5, 2015, pp.85-92.

Faturrahman, M Mas'udi. (2012). "Cara Mudah Menghafal Al-Qur'an dalam 1 Tahun". Yogyakarta: Elmatera

Husna Rosidah. (2015). "Pengaruh Kemampuan Menghafal Al-Qur'an terhadap Prestasi Bahasa Arab Siswa Tahfidz MTs Yapi Pakem Sleman Yogyakarta ditinjau dari Perspektif Teori Behaviorisme". Yogyakarta: UIN Sunan Kalijaga.

Nawaz, Nazia dan Syeda Farhana J,. (2015). " Effect of Memorizing Qur'an by Heart (Hifz) on Later Academic Achievement". Journal of Islamic Studies and Culture Vol. 3. No 1, pp. 58 – 64.

Mansyur Maliki. (2009). "Korelasi intensitas menghafal Al-Qur'an dengan Kontrol Diri Siswa di Pondok Pesantren Bustanu 'Usysyaqil Qur'an (BUQ) Betengan Demak". Semarang: IAIN Walisongo.