



Statistical analysis on the effectiveness of short-term programs during Covid-19 pandemic: In the case of Program Bijak Sifir 2020

Nazihah Safie ^{1, a)}, Syerrina Zakaria ^{2, b)}, Siti Madhihah Abdul Malik ^{3, c)} Nur Baini Ismail ^{4, d)}
Azwani Alias ^{5, e)} Ruwaidiah Idris ^{6, f)}

Nazihah Safie

1.2,3,4,5,6 Mathematics program

Faculty of Ocean Engineering Technology and Informatics

Universiti Malaysia Terengganu

21030 Kuala Nerus, Terengganu, Malaysia

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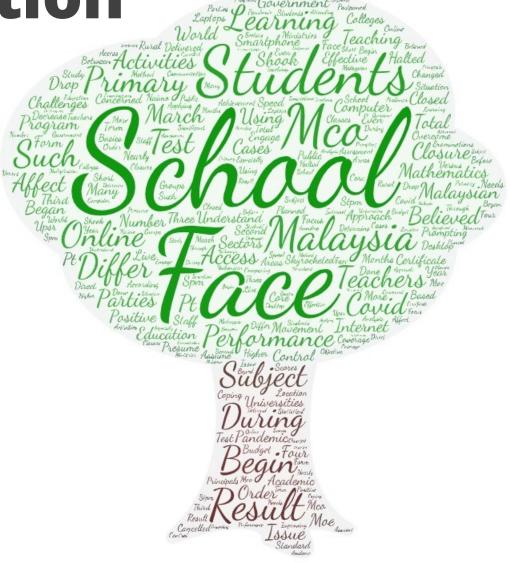


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Introduction







Objectives



To measure the primary school students' performance during MCO for the short-term Mathematics program by applying the Naimo method in improving students' understanding of the basics of multiplication.



Literature Review



Average impact on academic outcomes during the covid-19 are mostly negative (Aucejo et al., 2020; Klein et al., 2020)

Online learning shows a significant difference compared to traditional learning (Adnan & Anwar, 2020; Baker, 2013; Johnson, 2011)

Short-term program conducted face-to-face will improve academic performance (Ramli et al., 2019; Aziz et al., 2006; Halim et al., 2015)



Data and Methods



Quantitative study

Sample consisted of 38 students from primary school aged between 8 to 12 years.

This program was held for three days.

Instruments: pre-test and post-test consists of 30 objective questions (one hour).

Students are taught to master the sifir two until sifir ten by applying the Naimo method (using fingers).



Results and Discussions

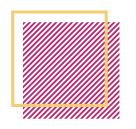


Table 1: Descriptive statistics 1

Test	Gender	n	Mean	Median	Std. Deviation
PRE	F	19	23.1053	27	8.4189
	M	19	26.2105	29	4.4294
POST	F	19	28.2105	29	2.8400
	M	19	28.5263	30	3.6873

Table 2: Descriptive statistics 2

Tes	t	Mean	Median	N	Std. Deviation
Pair 1	Pre	24.6579	28	38	6.8192
	Post	28.3684	29	38	3.2501



Results and Discussions



Table 3: Normality test

Mathematic test	Gender	S-W statistic	Sig.
Pre	F	0.746	0.000
	M	0.819	0.002
Post	F	0.636	0.000
	M	0.440	0.000



Results and Discussions

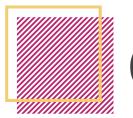


Table 4: Mann-Whitney (independent samples) test

Test	W-value	Sig. (2-tailed)
Pre (F-M)	337.50	0.337
Post (F-M)	330.00	0.210

Table 5: Wilcoxon signed-rank test

Test		W-value	Sig.
Pair	Pre-post	1167.0	0.002



Conclusion Platform remailer services s





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