

Name : Moeurn Puthsitha

Gender : Male

Class : E6

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วันที่ 06 02 05
2022

หัวข้อการบ้าน

หัวข้อ : Statistics Analysis

1. รวบรวมข้อมูล: ปริมาณการ
บริโภคของ 'สบู่น้ำพุร้อน'

$$H_0 = \mu = 800 \text{ ml}$$

หรือ

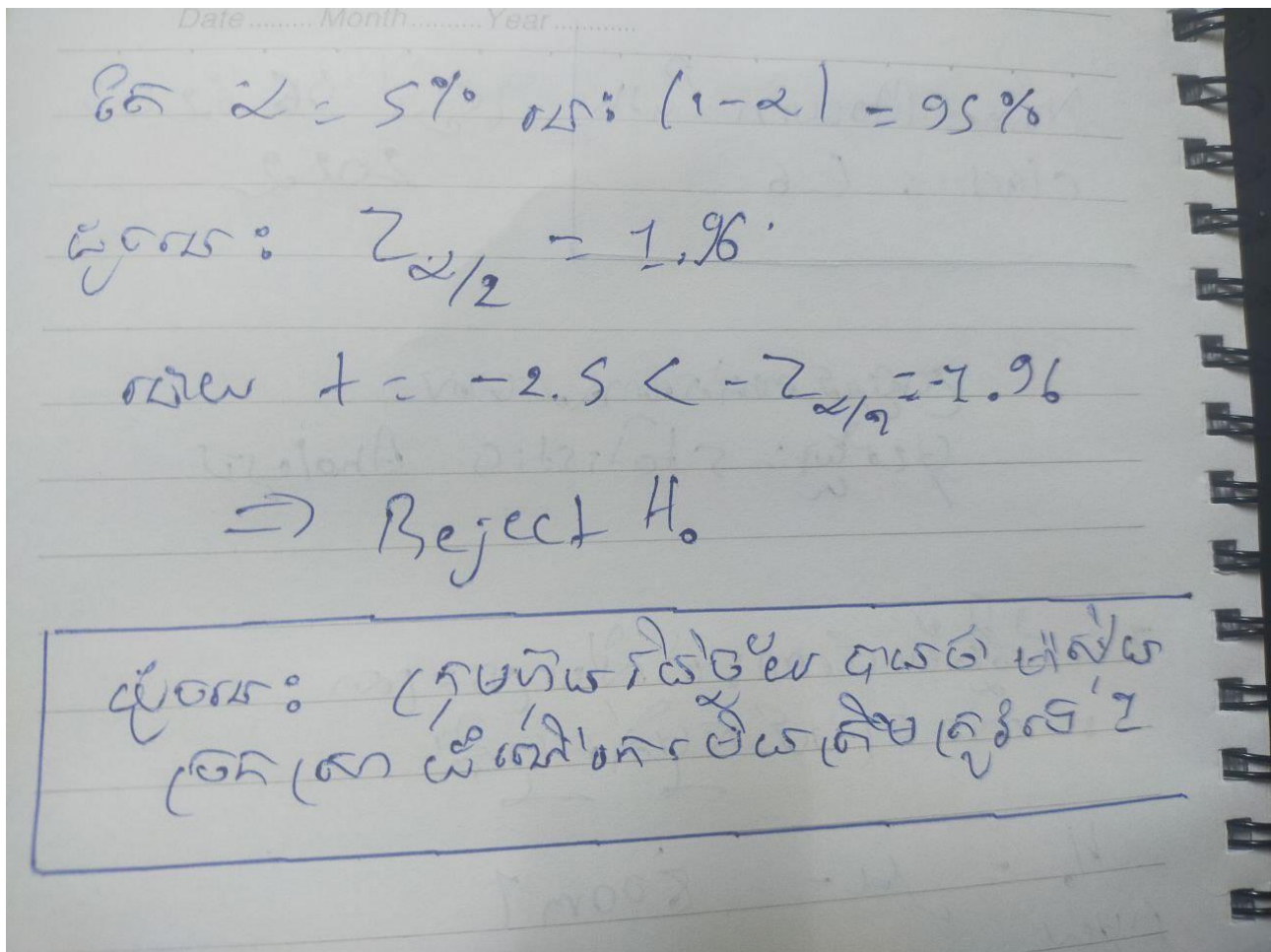
$$H_1 = \mu \neq 800 \text{ ml}$$

สูตรการคำนวณ = statistics

สูตร

$$t = \frac{\bar{x} - \mu_0}{\frac{s}{\sqrt{n}}}$$

$$\Rightarrow t = \frac{790 - 800}{\frac{40}{\sqrt{60}}} = -2.5$$



1. Salary before taking scholarship, Salary after taking scholarship. (Test value: 30 0000)

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
Salary before taking scholarship	44	1717272.7273	3191210.57706	481093.09596
Salary after taking scholarship	108	1057728.4815	512478.49459	49313.26613

One-Sample Test

Test Value = 300000

t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
				Lower	Upper

Salary before taking scholarship	2.946	43	.005	1417272.72727	447056.0335	2387489.4210
Salary after taking scholarship	15.366	107	.000	757728.48148	659970.6828	855486.2802

Before taking scholarship the participants were asked about salary. In average, the participants earned 1717272.7273 out 300000. According to t-test the participants earned not significantly higher salary than an average salary (P-Value = 0.005).

The participants earned 1057728.4815 out 300000, but the participants salary were significantly lower than an average (P-Value = 0.000).

2. Salary after taking salary scholarship, Expected salary(The test value: 40 0000)

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
Salary after taking scholarship	108	1057728.4815	512478.49459	49313.26613
Expected salary	108	1667962.9630	714757.33972	68777.55708

One-Sample Test

Test Value = 400000						
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
Salary after taking scholarship	13.338	107	.000	657728.48148	559970.6828	755486.2802
Expected salary	18.436	107	.000	1267962.96296	1131619.4776	1404306.4484

Before taking scholarship the participants were asked about salary. In average, the participants earned 1057728.4815 out 400000. According to t-test the participants earned significantly lower score lower than an average salary (P-Value = 0.000).

The participants earned 1667962.9630 out 400000, but the participants score were not significantly higher than an average (P-Value = 0.000).

