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EDG500 Educational Research and Statistics

Professor Bennett Schephen

March 3, 2023


```
NEW FILE.
DATASET NAME DataSet1 WINDOW=FRONT.

SAVE OUTFILE='C:\Users\lahoz\OneDrive\Pictures\Washington Elementary School reading test score.sav'
  /COMPRESSED.
T-TEST
  /TESTVAL=32
  /MISSING=ANALYSIS
  /VARIABLES=Scores
  /CRITERIA=CI(.95).
```


T-Test

Notes		
Output Created		10-MAR-2023 08:27:55
Comments		
Input	Data	C:\Users\lahoz\OneDrive\ Pictures\Washington Elementary School reading test score.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	12
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.

Syntax		T-TEST
		/TESTVAL=32
		/MISSING=ANALYSIS
		/VARIABLES=Scores
		/CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02

[DataSet1] C:\Users\lahoz\OneDrive\Pictures\Washington Elementary School reading test score.sav

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
Standardized reading test	12	32.7500	4.02549	1.16206

One-Sample Test

	Test Value = 32					
					95% Confidence Interval of the Difference	
	t	df	Sig. (2-tailed)	Mean Difference	Lower	Upper
Standardized reading test	.645	11	.532	.75000	-1.8077	3.3077

a. What is the value of the mean for the sample at Washington Elementary School? <u>11</u>

b. What is the value of t? <u>.645</u>

c. What is the probability associated with this t score?<u>.532</u>

d. Is the difference between the district mean of 32.00 and the mean at Washington Elementary School statistically significant at the .05 level? <u>Yes</u>

e. Write a statement of the results of the significance test. <u>For the Whashington Elementary School sample, the values of the mean and standard deviation are 32.76 and 4.03, respectively. The statewide mean is 32. The difference between the sample mean and the statewide means is statistically significant at the .05 level (t=.645, df=11)</u>