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EDG500
Ch 12 SPSS t Test for a Single Sample Mean

Attitude toward Math

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
Attitude Toward Math	20	3.7000	2.55672	.57170

One-Sample Test

Test Value = 4

	t	df	Significance One-Sided p	Significance Two-Sided p	Mean Difference	95% Confidence Interval of the Difference Lower	95% Confidence Interval of the Difference Upper
Attitude Toward Math	-.525	19	.303	.606	-.30000	-1.4966	.8966

One-Sample Effect Sizes

		Standardizer[a]	Point Estimate	95% Confidence Interval Lower	95% Confidence Interval Upper
Attitude Toward Math	Cohen's d	2.55672	-.117	-.556	.324
	Hedges' correction	2.66350	-.113	-.533	.311

a. The denominator used in estimating the effect sizes.
Cohen's d uses the sample standard deviation.
Hedges' correction uses the sample standard deviation, plus a correction factor.

Exercise:

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

	t	df	Significance One-Sided p	Significance Two-Sided p	Mean Difference	95% Confidence Interval of the Difference Lower	95% Confidence Interval of the Difference Upper
Standardized Reading Test	.645	11	.266	.532	.75000	-1.8077	3.3077

One-Sample Effect Sizes

		Standardizer[a]	Point Estimate	95% Confidence Interval Lower	95% Confidence Interval Upper
Standardized Reading Test	Cohen's d	4.02549	.186	-.389	.753
	Hedges' correction	4.32867	.173	-.362	.700

a. The denominator used in estimating the effect sizes.
Cohen's d uses the sample standard deviation.
Hedges' correction uses the sample standard deviation, plus a correction factor.

a. It is 32.75

b. .645
c. .532
d. I don’t understand the question.
e. The values of the mean and standard deviation are 32.75 and 4.03. The test value is 32.00. The difference between the sample mean and the statewide mean is statistically significant at the .05 level (t= .645, df=11)