

One-Sample Statistics

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

One-Sample Test

Test Value = 4.0							
						95% Confidence Interval of the Difference	
		Significance		Mean Difference			
t	df	One-Sided p	Two-Sided p				
Attitude Toward Math	-.525	19	.303	.606	-.30000	-1.4966	.8966

Figure 12.5

One-Sample Statistics

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

One-Sample Test

Test Value = 2.5							
						95% Confidence Interval of the Difference	
		Significance		Mean Difference			
t	df	One-Sided p	Two-Sided p				
Attitude Toward Math	2.099	19	.025	.049	1.20000	.0034	2.3966

Figure 12.6

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
Scores	12	32.7500	4.02549	1.16206

One-Sample Test

Test Value = 0							
		Significance		95% Confidence Interval of the Difference			
	t	df	One-Sided p	Two-Sided p	Mean Difference	Lower	Upper
Scores	28.183	11	<.001	<.001	32.75000	30.1923	35.3077

Figure 12.7

- a. The value of the mean for the sample at Washington Elementary School was 32.7500.
- b. The value of t is 28.183.
- c. The probability associated with this t score is $<.001$.
- d. The difference between the district mean of 32.00 and the mean at Washington Elementary School is statistically significant at the .05 level.
- e. For the Washington Elementary School, the values of the mean and standard deviation are 32.7500 and 4.02549, respectively. The district mean is 32.00. The difference between Washington Elementary School mean and the district mean is statistically significant at the 0.05 level ($t = 2.099$, $df = 11$).