Results

Descriptives

Descriptives

	Gender	Recall	No. of words encorded	Stimuli
N	Female	19	19	19
	Male	21	21	21
Mean	Female	8.53	28.2	
	Male	8.33	25.4	
Std. error mean	Female	0.842	2.16	
	Male	1.16	1.27	
95% CI mean lower bound	Female	6.76	23.6	
	Male	5.91	22.7	
95% CI mean upper bound	Female	10.3	32.7	
	Male	10.8	28.0	
Median	Female	9	23	
	Male	7	23	
Standard deviation	Female	3.67	9.42	
	Male	5.33	5.81	
Skewness	Female	-0.268	0.00102	
	Male	1.36	2.10	
Std. error skewness	Female	0.524	0.524	
	Male	0.501	0.501	
Shapiro-Wilk W	Female	0.976	0.832	
	Male	0.897	0.574	
Shapiro-Wilk p	Female	0.880	0.003	
	Male	0.031	< .001	

Note. The CI of the mean assumes sample means follow a t-distribution with N - 1 degrees of freedom

Independent Samples T-Test

Independent Samples T-Test

							95% Confidence Interval	
		Statistic	df	p	Mean difference	SE difference	Lower	Upper
Recall	Student's t	0.132	38.0	0.896	0.193	1.46	-2.77	3.15
	Welch's t	0.134	35.6	0.894	0.193	1.44	-2.72	3.11
	Mann-Whitney U	171		0.446	1.000		-2.00	4.00
No. of words encorded	Student's t	1.134 [a]	38.0	0.264	2.777	2.45	-2.18	7.73
	Welch's t	1.108	29.4	0.277	2.777	2.51	-2.35	7.90
	Mann-Whitney U	162		0.278	4.77e-5		-3.52e−5	5.00

Note. $H_a\ \mu_{Female} \neq \mu_{Male}$

[a] Levene's test is significant ($p < .05$), suggesting a violation of the assumption of equal variances

Assumptions

Normality Test (Shapiro-Wilk)

	W	p
Recall	0.941	0.038
No. of words encorded	0.820	< .001

Note. A low p-value suggests a violation of the assumption of normality

One-Way ANOVA

One-Way ANOVA

		F	df1	df2	p
Recall	Welch's	0.0180	1	35.6	0.894
	Fisher's	0.0174	1	38	0.896
No. of words encorded	Welch's	1.2277	1	29.4	0.277
	Fisher's	1.2857	1	38	0.264

Group Descriptives

	Gender	N	Mean	SD	SE
Recall	Female	19	8.53	3.67	0.842
	Male	21	8.33	5.33	1.164
No. of words encorded	Female	19	28.16	9.42	2.162
	Male	21	25.38	5.81	1.268

Assumption Checks

Normality Test (Shapiro-Wilk)

	W	p
Recall	0.941	0.038
No. of words encorded	0.820	< .001

Note. A low p-value suggests a violation of the assumption of normality

Correlation Matrix

Correlation Matrix

		Gender	Recall	No. of words encorded
Gender	Pearson's r	—		
	df	—		
	p-value	—		
Recall	Pearson's r	NaN [a]	—	
	df	38	—	
	p-value	NaN	—	
No. of words encorded	Pearson's r	NaN [a]	0.350 *	—
	df	38	38	—
	p-value	NaN	0.027	—

Note. * p < .05, ** p < .01, *** p < .001

[a] Pearson correlation cannot be calculated for non-numeric values

References

[1] The jamovi project (2024). *jamovi*. (Version 2.5) [Computer Software]. Retrieved from https://www.jamovi.org.

[2] R Core Team (2023). *R: A Language and environment for statistical computing*. (Version 4.3) [Computer software]. Retrieved from https://cran.r-project.org. (R packages retrieved from CRAN snapshot 2024-01-09).