

Table 1) Comparison between the Demographic Characteristics of the Students in Two Groups

Parameter	Problem-based Group	Question-Answer Group	P Value
Age (year)			
Mean	21.43±1.87	20.92±2.06	0.51
GPA			
Mean	16.47±1.96	15.89±1.15	0.36
Interest in the Field of Study			
Yes	(%85.7) 12	(%76.9) 10	0.30
No	(%14.3) 2	(%23.1) 3	
Living in the Dormitory			
Yes	(%28.6) 4	(%15.4) 2	0.17
No	(%71.4) 10	(%84.6) 11	
Commuting to Tehran			
Yes	(%64.3) 9	(%84.6) 11	0.38
No	(%35.7) 5	(%15.4) 2	

Table 2) Comparison between Mean Scores of the Critical Thinking Disposition Parameters in Two Groups before and after Intervention

Parameters	Problem-solving Group	Question-Answer Group	P Value
Truth-seeking			
Before Intervention	36.29±6.89	35.07±4.31	0.59
After Intervention	37.29±6.83	38.69±4.57	0.54
P Value	0.26	0.001	-
Criticism-acceptance			
Before Intervention	32.00±5.53	32.38±1.38	0.81
After Intervention	39.43±5.91	47.84±5.32	0.001
P Value	0.001	0.001	-
Power Analysis			
Before Intervention	42.50±0.75	42.53±1.93	0.95
After Intervention	46.29±2.30	47.84±3.72	0.19
P Value	0.001	0.001	-
Information Organizing			
Before Intervention	40.07±7.33	41.31±3.95	0.59
After Intervention	48.79±1.33	32.76±4.60	0.59
P Value	0.001	0.001	-
Information-seeking			
Before Intervention	46.29±2.92	46.84±4.35	0.59
After Intervention	48.86±2.77	43.38±5.96	0.005
P Value	0.001	0.179	-
Self-confidence			
Before Intervention	37.14±3.53	36.62±4.43	0.74
After Intervention	42.07±2.64	38.62±3.48	0.007
P Value	0.001	0.01	-
Maturity			
Before Intervention	43.71±2.16	41.76±2.89	0.06
After Intervention	46.57±1.60	42.47±2.98	0.001
P Value	0.001	0.03	-
General Disposition to Critical Thinking			
Before Intervention	278.00±14.28	276.54±12.70	0.78
After Intervention	309.29±13.81	306.62±16.33	0.65
P Value	0.001	0.001	-