AxS Experiment

Fifteen cards will be read aloud. Your task is to memorize the cards in the order in which they were read.
When instructed, use the space below to write out all the cards you remember.

	Silence	Music	Interruption
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
# Correct			

After each round, write out the number of cards each subject correctly remembered. Each student should calculate his or her own subject mean. Finally, calculate the column means and standard deviations.

Subject	Number Correct			Subject Mean
	Silence	Music	Interruption	
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
Mean				
SD				
N				

ANOVA Summary Table

Source	SS	df	MS	MSR
Environment				
Subjects				
Interaction				
(ANOVA Error)				
Total				

1. Write out the conclusions based on this study.
2. Calculate the effect size of the environment on the ability to recall information from working memory.
3. Was it worthwhile to analyze this data as an AxS ANOVA rather than a one-way ANOVA?
4. Are there any problems with the way in which we collected this data?
   (Carry-over effects, randomization)