



Glenrock Prevention Coalition All Stars 2006 Program Evaluation

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Glenrock Prevention Coalition All Stars 2006 Program Evaluation

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Glenrock Prevention Coalition

All Stars 2006

1. Executive Summary

The All Stars program was administered to 7th grade youth in Glenrock, Wyoming during the fall semester of 2006. Matching pre- and post-surveys were received from 27 youth in 3 iterations. Iterations 2 and 3 were run concurrently so the data were combined and analyzed together. The survey was modified to focus on material taught in the course and to address specific interests of the community including substance knowledge and school bonding. Several of the risk factors were expanded to include spit tobacco as a substance of interest. The risk and protective factors are listed below with effects over the iterations.

	<u>Effect</u>
• Positive attitude toward drug use(modified)	Significant Improvement
• Perceived risk and harm of drug use(modified)	Significant Improvement
• Future intent to use (modified)	No change
• Future thinking (new)	No change
• School bonding (modified)	No change
• Normative beliefs (modified)	No change
• Substance knowledge (new)	No change

Results from pre and post surveying show that participants experienced statistically significant improvement in two risk factors -- *Positive attitude toward drug use and Perceived risk and harm of drug use*. For most other risk and protective factors, the participants' attitudes appeared to change in the desired direction, but the change was not large enough to be significant.

Post-only comparison was used as a second layer of analysis. In the post-only comparison, the participants in iterations 2 and 3 acted as a quasi-control group for iteration 1. Even with this correction for any changes which could have occurred over time, the participants experienced no other significant changes. For this type of analysis, the sample size was small and a larger sample and more iterations could make statistical significance easier to detect.

In the future thinking questions, the pre- and post-distributions shifted toward planning further into the future which is encouraging. Overall, most of the program participants do not use any of the substances and understand the risks associated with doing so. In general, the results of the All Stars program evaluation are positive. A follow-up survey could evaluate if any of the changes are sustained after program conclusion.

2. Introduction

2.1. Background

All Stars is a school-based program designed to delay and prevent high-risk behaviors in middle school-age adolescents (11 to 14 years old), including substance use, violence, and premature sexual activity, by fostering development of positive personal characteristics. In Glenrock, the program was administered to 7th graders during the fall semester.

2.2. Organization of this Report

This document contains six sections. Sections 1 and 2 provide an executive summary and an introduction, respectively. Section 3 describes methods. Section 4 describes the demographics of the program participants. Section 5 presents the results and key findings. Section 6 presents the conclusions and recommendations from the analysis. Appendix 1 is the survey used in the evaluation. Appendix 2 is the changes in the *Normative Belief* sub-scales by iteration. Appendix 3 contains the frequencies for each survey question and answers. Appendix 4 contains the cross-tabulations of each survey question between pre- and post-tests.

3. Methods

The planned evaluation design for Glenrock All Stars was a combined pre-post test and post-only comparison design which would allow later iterations to act as quasi-control groups for earlier iterations. Between 3 and 5 iterations were planned with a total of approximately 60 participants.

In the pre-post design, participant's pre- and post-scores are matched. Statistical significance can be detected with a smaller average change score because the variance within participants is used.

In pre-post analysis, risk or protective factor scale scores frequently have no significant changes. In these cases, it is reported that though the participants did not improve, those youth not in the program could have become worse over the same time. This implies that those in the program could be at lower risk or higher protection than those not in the program. This question is addressed with a control group or using a quasi-control group as in the post-only comparison design. Youth in the second iteration are used as the control group for those in the first iteration. The pre-test scores of second iteration are compared with the post-test scores of the first iteration using an independent t-test. This process is repeated for all the iterations.

The primary assumption of post-only comparison is that the different groups in the iterations are not significantly different from each other. The most effective way to do this is to randomly choose the participants to be included in each iteration. When randomization is not used, this assumption is stretched to cover groups if there is no reason to believe that high or low risk youth were grouped into specific iterations. Participant's pre-post scores can provide some information as to the validity of the assumption.

When looking at the results, the pre-post analysis first shows if there was a change in the participants' scores over the course of the program. If there is no change, then the post-only comparison analysis is used to see if the scale scores for youth not in the program were significantly different than the scale score for those in the program at the program's end. Because different youth are in each group, the variance is higher so the difference in average scale scores between the

groups must be larger than if the comparison was between matched participants. Using the two analyses together, any differences across the program can be better evaluated than using only one analysis method.

The survey was modified from past All Stars surveys to include questions about chewing tobacco, school bonding, and substance knowledge taught in the program. The chewing tobacco questions were phrased similarly to the questions on alcohol, smoking and drugs and were included in the constructs for *positive attitude towards drug use, perceived risk and harm of drug use, and future intent to use drugs*. In addition, marijuana was combined with all illegal drugs rather than have a separate question. This kept the constructs the same length, but meant that the scale scores are not comparable with previous scale scores, and cannot be used to determine the number of students at risk for each risk factor.

Normative belief questions were also modified to meet the needs of the program and included paired questions for each of the substances covered. This allowed for not only a combined scale score but also sub-scale scores for each of the substance of interest. The complete participant survey is shown in Appendix 1.

Answers were recoded prior to analysis so that lower scores were preferred attitudes and higher scores were undesired attitudes for risk factors and the opposite for protective factors. For the substance knowledge questions, the “not sure” response was scored between “true” and “false”. This meant that answering “not sure” was not as good as the preferred answer, but not as bad as the undesired answer.

There were three iterations from the program with a total of 27 matched participants. Iterations 2 and 3 occurred concurrently so they were considered one iteration. In the post-only comparison analysis, the pre-test scores for iterations 2 and 3 were compared to the post-test score for iteration 1 using an independent t-test. The assumption in the analysis is that the youth in each iteration are essentially the same and the only difference is maturation or other changes that have occurred over time. This design uses iterations 2 and 3 as the quasi-control group for iteration 1.

In the standard pre-post-test analysis, an individual’s data was only included if pre-post data for the same unique identifier was found in the data set. The scale scores for each pre- and post-construct were compared using a paired t-test. SPSS version 14.0 was used for the statistical analyses.

For all tests, an overall alpha of 0.05 was used to determine statistical significance. Statistical significance is based on sample size, the amount of variation in the sample, and the amount of change observed. If a difference is found to be significant, it means that the measured change in a risk or protective factor construct is not likely due to random chance and similar results would likely be found in comparable groups of participants.

4. Demographics

The demographic characteristics of program participants are reported in Table 1. Matching pre- and post-tests were completed by 27 participants. There were twice as many males as females in the program. All of the participants were 12 and 13 year olds which was expected because all the program participants were in the 7th grade.

Table 1: Demographics of Program Participants

		Complete Matching Survey Information	
		Count	Percent
Gender			
	Male	18	67%
	Female	9	33%
	Unreported	0	0%
Ages			
	12 year olds	17	63%
	13 year olds	10	37%

5. Key Findings

5.1 Pre- and Post-test Comparison Analysis – All Iterations

The changes in the average scale scores for the risk and protective factors over the program are shown in Figures 1 and 2. There was significant improvement in the scale scores for one risk factor – *Modified positive attitude toward drug use*. Although we cannot directly compare the scale score of the modified construct with the *positive attitude toward drug use* construct measured in the past, it is interesting to note that previous iterations of All Stars in Glenrock showed improvement in *positive attitude toward drug use* as well.

Figure 1: Average Scale Scores for Risk Factors

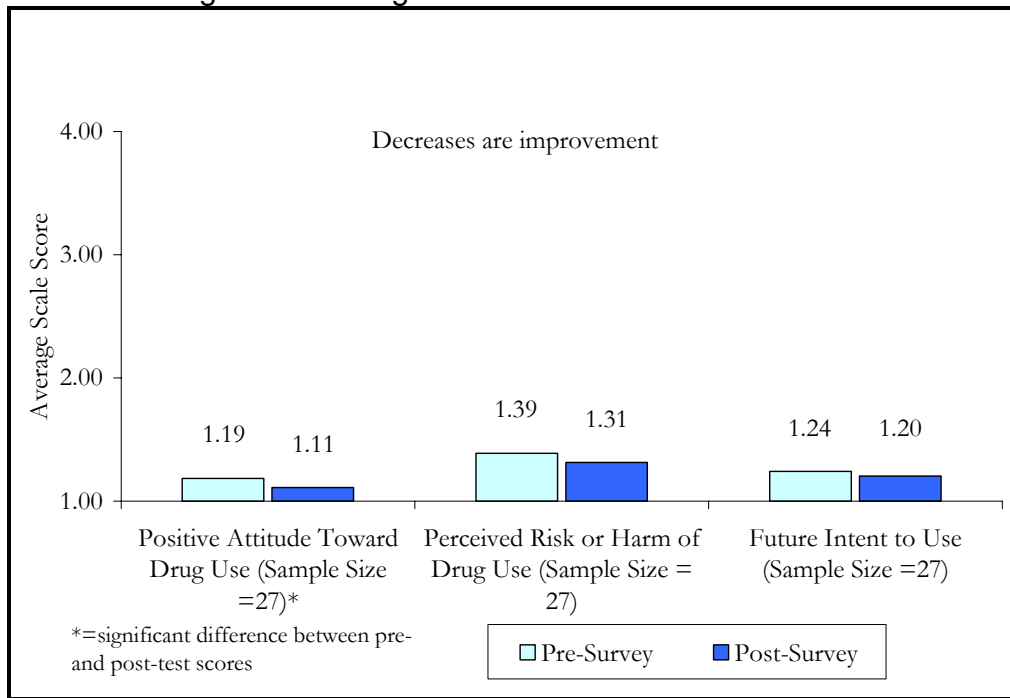
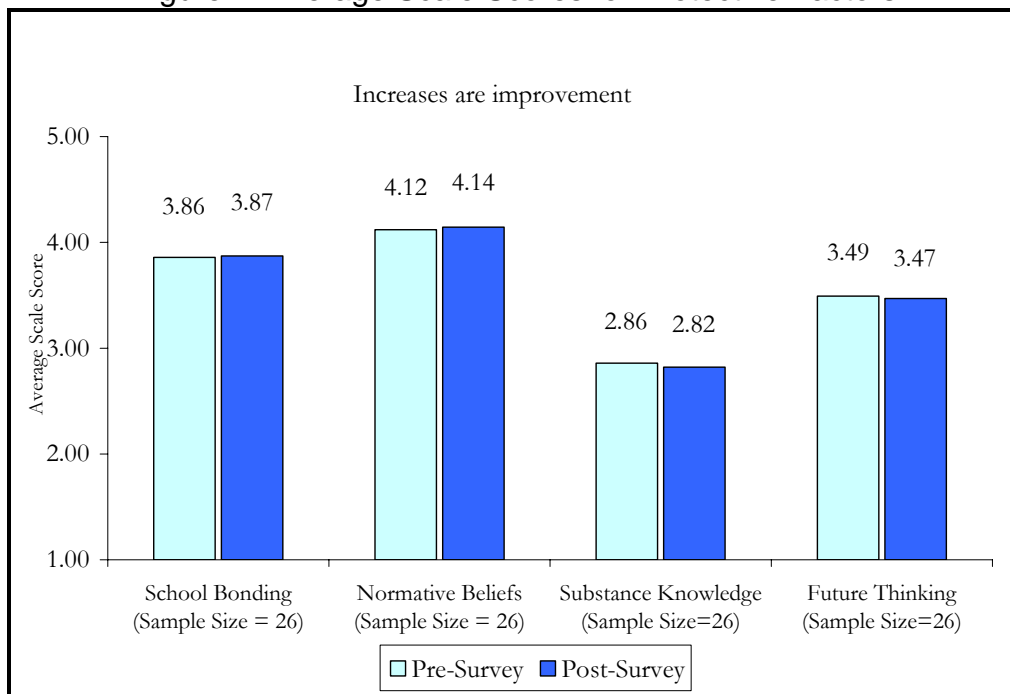


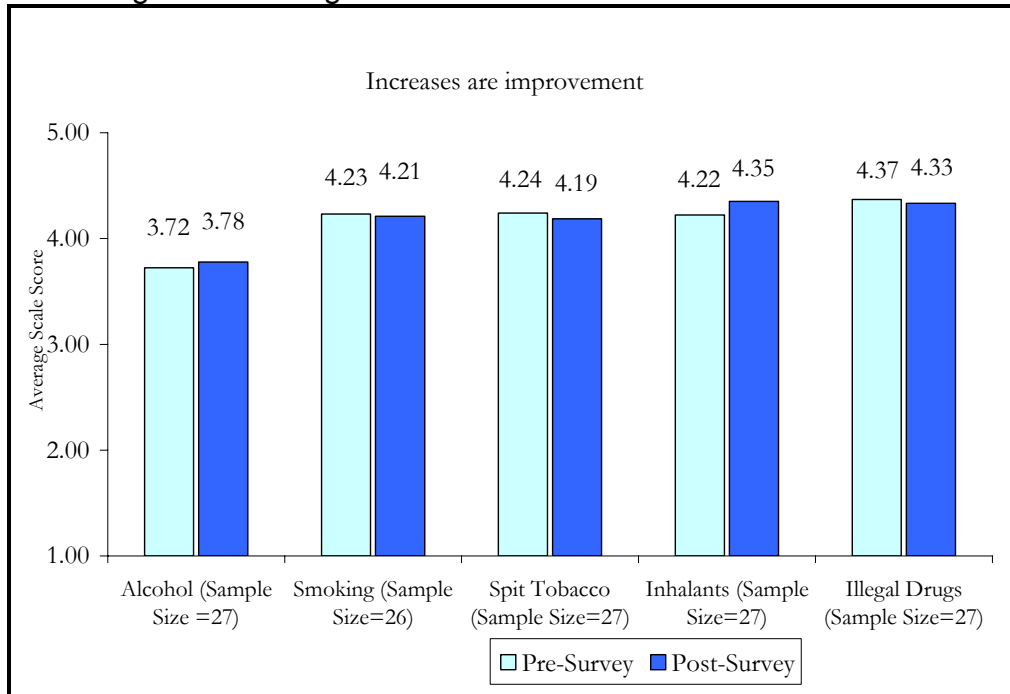
Figure 2: Average Scale Scores for Protective Factors



The *Normative beliefs* scale was developed with five sub-scales – one for each of the substances discussed in the program. There were no significant changes in any of the sub-scales as shown in Figure 3. Though none of the sub-scale score changes are significant, the relative differences

between the substance scores are interesting. The average scale scores for the alcohol sub-scales are significantly lower than any of the other sub-scales. This could indicate that the program participants find alcohol more acceptable than the other substances.

Figure 3: Average Scores for Normative Belief Sub-scales



5.2 Pre- and Post-test Comparison Analysis – By Iteration

The average scale scores for the risk and protective factors by iteration are shown in Figures 4 through 10. There was significant improvement in the risk factors *positive attitude toward drug use* and *perceived risk and harm of drug use* for iterations 2 and 3 only. None of the other risk or protective factors showed change across the iterations. The bar charts of the average scale scores for the Normative Belief sub-scales are in Appendix 2 and also show no changes across the iterations.

Figure 4: Positive Attitude toward Drug Use—Average Scale Scores by Iteration

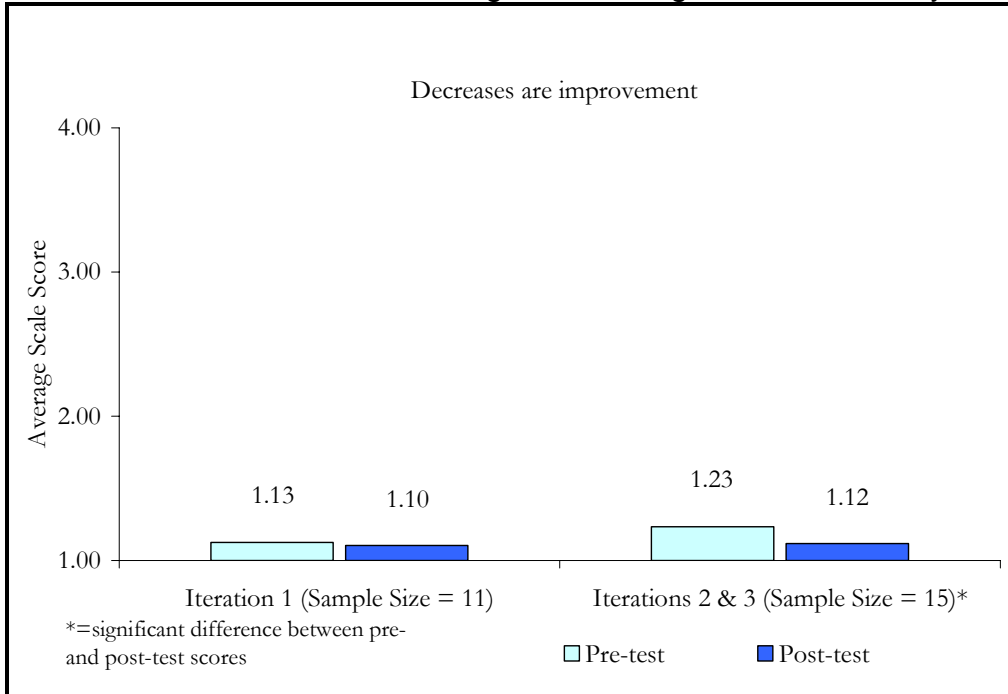


Figure 5: Perceived Risk and Harm of Drug Use – Average Scale Scores by Iteration

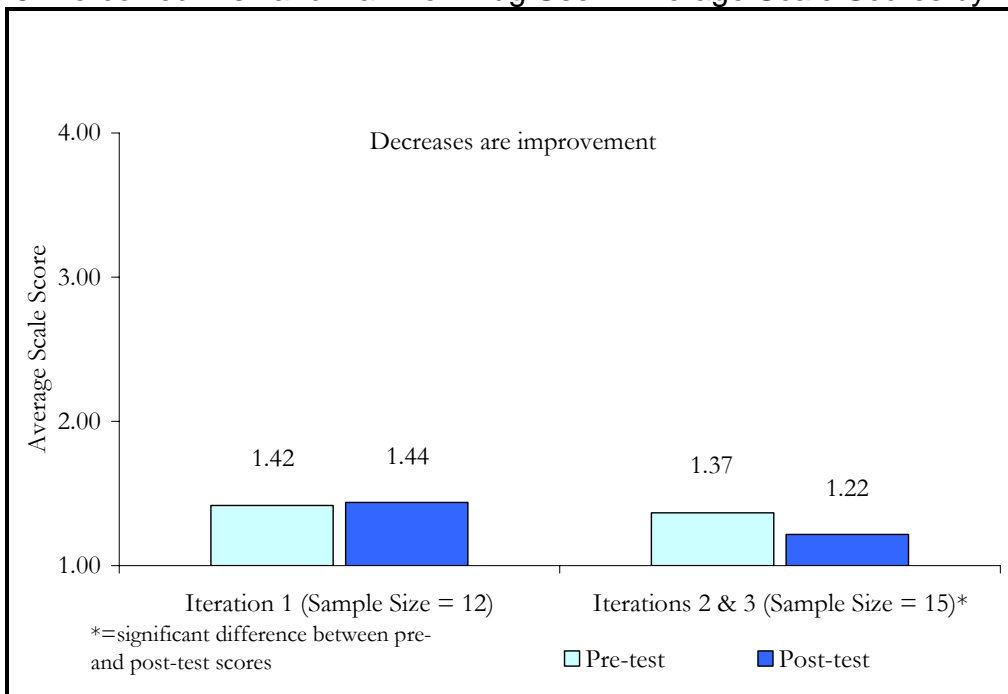


Figure 6: Future Intent to Use– Average Scale Scores by Iteration

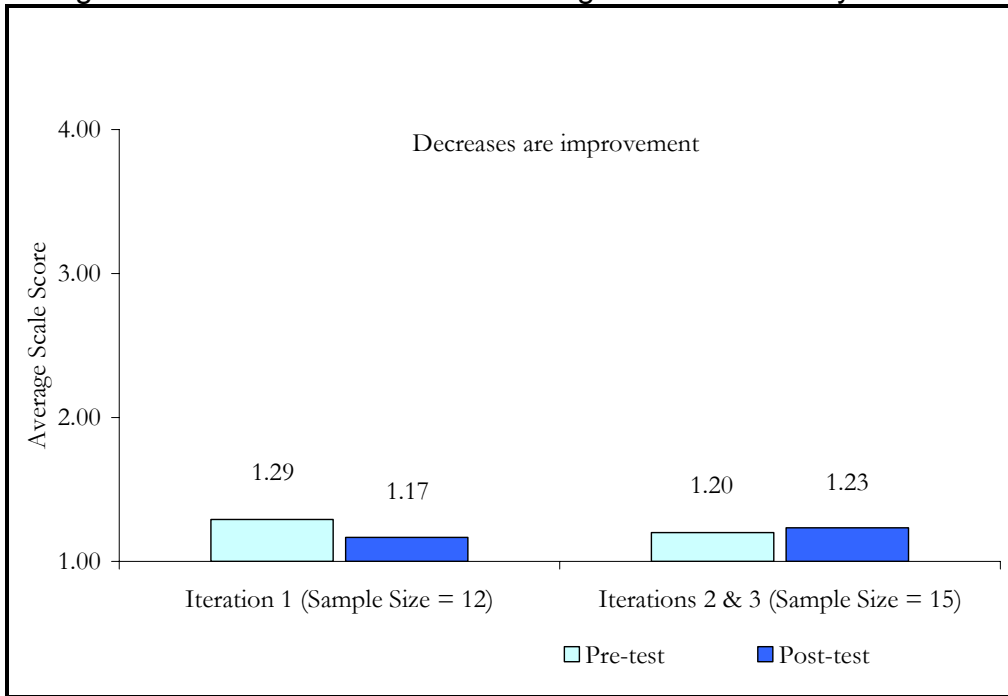


Figure 7: Future Thinking– Average Scale Scores by Iteration

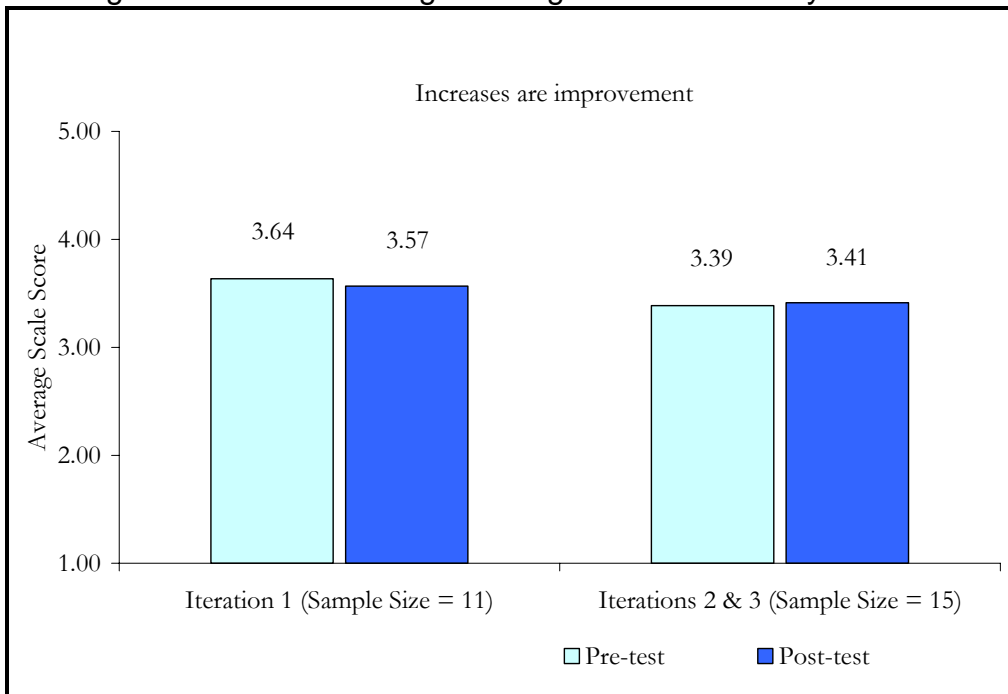


Figure 8: Normative Beliefs–Average Scale Scores by Iteration

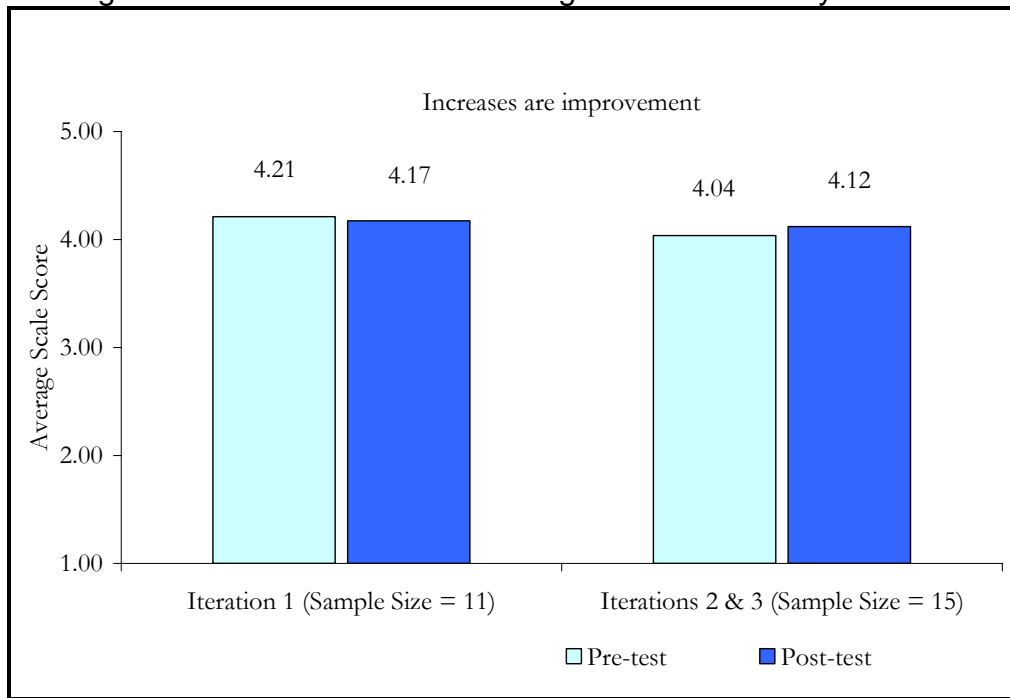


Figure 9: School Bonding–Comparison of Average Scale Scores Iteration

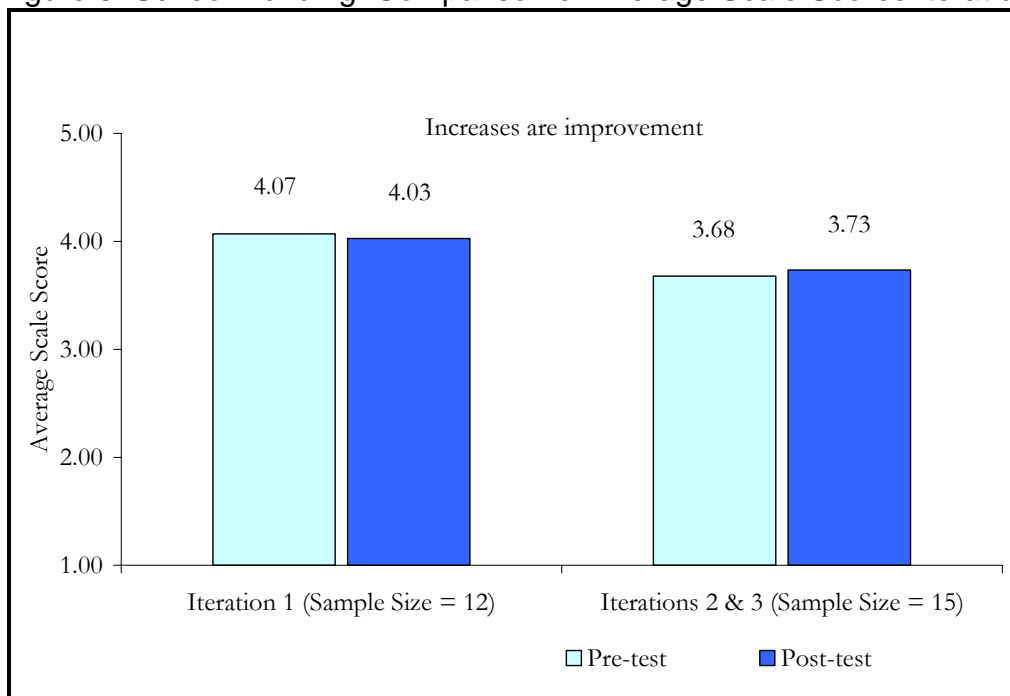
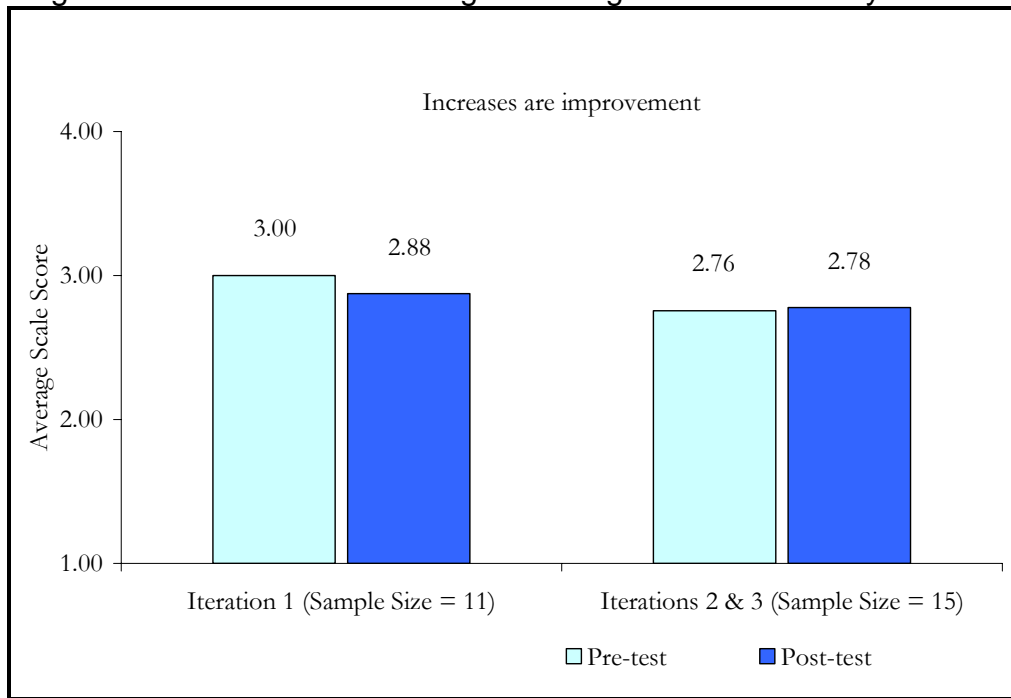


Figure 10: Substance Knowledge– Average Scale Scores by Iteration



5.2 Post Only Comparison Analysis

In the post-only comparison analysis, the post-test scores of iteration 1 were compared with the pre-test scores of iterations 2 and 3 for the risk and protective factors that did not show significant change between pre- and post-tests in the pre-post comparison analysis. The key assumption for the post-only comparison analysis is that on the average the youth in the different iterations are alike. This way the differences being observed are the changes in the youth who experience the program versus those who only experience maturation and cultural effects.

Demographically, both iterations were two-thirds male, one-third female and similar distributions of 12 and 13 year olds. Therefore, demographically, there does not appear to be a difference in the participants in the iterations.

There were no statistically significant changes between iteration 1 post-test scores and combined iteration 2 and 3 pre-test scores. In some cases the participants in iterations 2 and 3 were at lower risk at the beginning of the program than the participants in iteration 1. In other cases, the post-test in iteration 1 was lower than the pre-test in iteration 2, but the difference was not large enough to be statistically significant. With only two groups to compare, it is difficult to say if the participants in the iterations were distinctly different in risk levels or if it was simply random variation. Future programs with additional iterations could provide opportunities to see differences.

5.3 Survey Question Response Frequencies

Tables and bar charts with response frequencies for each survey question are in Appendix 2. Most of the changes seen in the response patterns were reflected in the scale scores. There are several questions that had small changes in their pre- and post-distributions that are notable and encouraging to discuss.

In *future thinking*, there are two questions with reassuring pattern changes. For the question, “At my age, I don’t really need to plan for my future or set goals.” Figure 16, shows that the post-test responses shifted toward the desired end of the scale. The next question, “What is the maximum time you consider when you plan for your future?”, confirms the positive shift with the participants shifting toward planning further into the future after the program. (Figure 17)

Figure 11: Response Frequencies for "At my age, I don't really need to plan for my future or set goals."

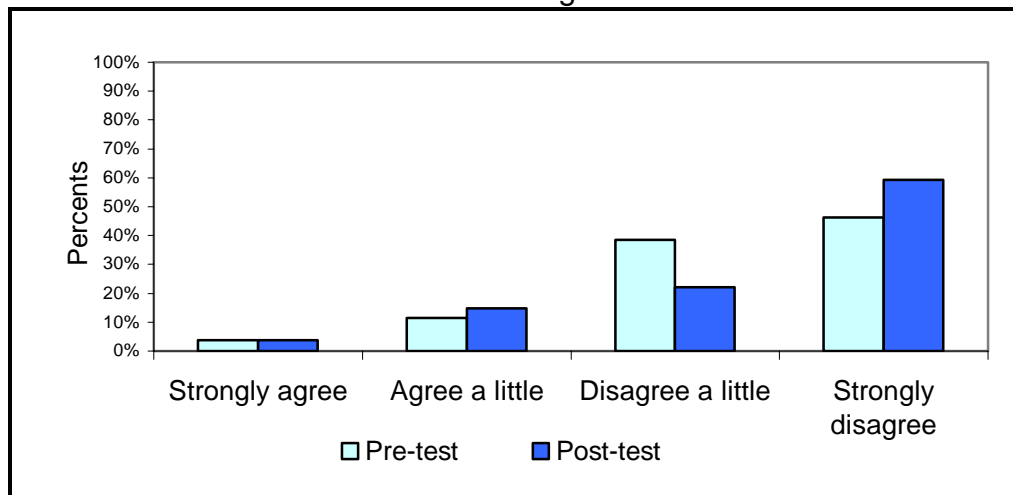
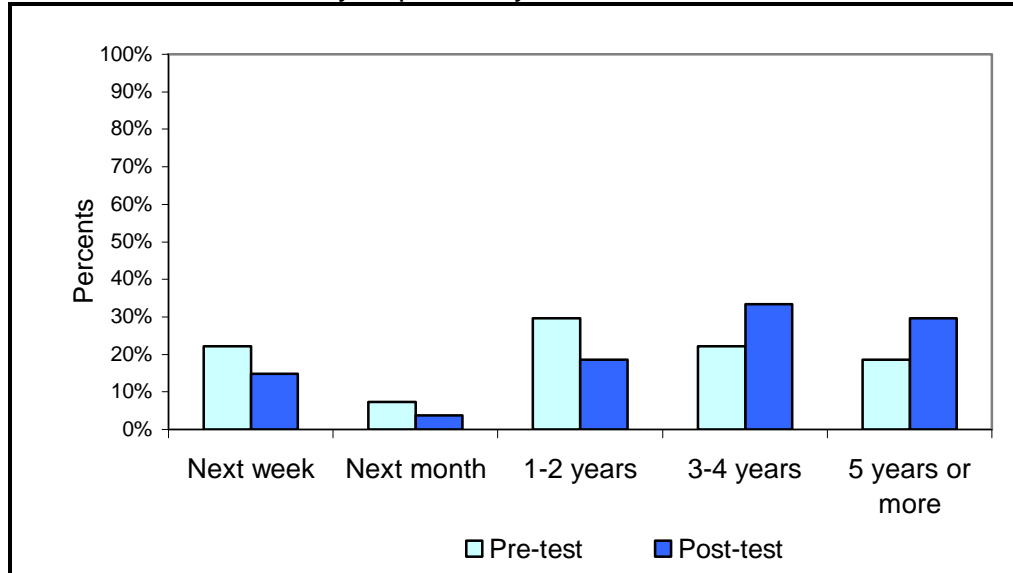


Figure 12: Response Frequencies for "What is the maximum time you consider when you plan for your future?"



In the *substance knowledge* questions, most of the participants knew the preferred answers before the program so only a few participants could change in a positive direction. The pre-post surveys alone cannot reflect any benefit of participants being re-exposed to the information.

5.4 Survey Question Pre- and Post-survey Cross-tabulations

The Cross-tabulations of pre- and post-test responses for each question are shown in Appendix 3. These tables show the same information as discussed in previous sections, but in a format that compares pre- and post-test results. Because most of the program participants started the program at the preferred level, only a few participants changed during the program.

6. Discussion

6.1 Conclusions

In general, the results of the analysis of the All Stars program data are positive.

- **One risk factor -- *positive attitude toward drug use* improved over the entire program.**
- **Two risk factors – *positive attitude toward drug use and perceived risk and harm of drug use* had large decreases in the scale scores from pre- to post-survey in the iterations 2 and 3.**
- Using iteration 2 and 3 as a control group for iteration 1 did not show any statistically significant changes in risk or protective factors, but the small sample size will make changes difficult to detect.
- Two of the *future thinking* questions had positive changes in response patterns, which indicate that participants could be changing their attitudes toward future planning.

- Most of the participants do not use the substances discussed in the program and understand the associated risks with doing so.

6.2 Recommendations

Although the program results are very positive, understanding of the effect of All Stars on its participants could be enhanced.

- There were significant improvements in two risk factors from pre- to post-survey. However, there is no evidence that the observed changes are maintained after the last All Stars class. This could be addressed by adding a follow-up survey six months after the class completion.
- The addition of the post-only comparison analysis provided a quasi-control group to better test the program effect; however, the small sample size made differences difficult to detect. Obtaining more iterations in the future could improve these results.

7. Appendices

7.1 Appendix 1. Participant Survey

Coding Scheme

QUESTIONS	CONSTRUCT	CATEGORY
1-4	Attitude Toward Drug Use	Risk Factor
5-8	Perceived Risk/Harm of Drug Use	Risk Factor
9-12	Intent to use drugs	Risk Factor
13-17	Future Thinking	Protective Factor
18-23	School Bonding	Protective Factor
24-34	Normative Beliefs	Protective Factor - paired substance questions
35-40	Substance Knowledge	Protective Factor

1. How do you feel about someone your age drinking beer, wine (for other than religious purposes & special holidays) or hard liquor (for example, vodka, whiskey or gin) regularly?
 - A. Very wrong
 - B. Wrong
 - C. A little bit wrong
 - D. Not wrong at all

2. How do you feel about someone your age smoking cigarettes?
 - A. Very wrong
 - B. Wrong
 - C. A little bit wrong
 - D. Not wrong at all

3. How do you feel about someone your age chewing tobacco?
 - A. Very wrong
 - B. Wrong
 - C. A little bit wrong
 - D. Not wrong at all

4. How do you feel about someone your age using marijuana, meth, cocaine, crack or any other illegal drug?
 - A. Very wrong
 - B. Wrong
 - C. A little bit wrong
 - D. Not wrong at all

5. How much do you think kids your age risk harming themselves (physically or in other ways) if they take 1 or 2 drinks of an alcoholic beverage (beer, wine, liquor) nearly every day?
 - A. No risk
 - B. Slight risk
 - C. Medium risk
 - D. Great risk

6. How much do you think kids your age risk harming themselves (physically or in other ways) if they chew tobacco daily?
 - A. No risk
 - B. Slight risk
 - C. Medium risk
 - D. Great risk

7. How much do you think kids your age risk harming themselves (physically or in other ways) if they smoke cigarettes every day?
 - A. No risk
 - B. Slight risk
 - C. Medium risk
 - D. Great risk

8. How much do you think kids your age risk harming themselves (physically or in other ways) if they use illegal drugs such as marijuana, crack, meth, or cocaine regularly?
 - A. No risk
 - B. Slight risk
 - C. Medium risk
 - D. Great risk

9. When I am an adult, I will smoke cigarettes.
 - A. NO!
 - B. no
 - C. yes
 - D. YES!

10. When I am an adult, I will chew tobacco.
 - A. NO!
 - B. no
 - C. yes
 - D. YES!

11. When I am an adult, I will drink beer, wine, or liquor to get drunk.
 - A. NO!
 - B. no
 - C. yes
 - D. YES!

12. When I am an adult, I will smoke use illegal drugs such as marijuana, meth, crack, or cocaine.
 - A. NO!
 - B. no
 - C. yes
 - D. YES!

13. At my age, I don't really need to plan for my future or set goals.
 - A. Strongly agree
 - B. Agree a little
 - C. Disagree a little
 - D. Strongly disagree

14. What is the maximum time you consider when you plan for your future?
 - A. Next week
 - B. Next month
 - C. 1-2 years
 - D. 3-4 years
 - E. 5 or more years

15. Learning healthy habits now will help me be healthy as an adult.
 - A. Strongly agree
 - B. Agree a little
 - C. Disagree a little
 - D. Strongly disagree

16. I have thought about the job or type of work I want to do as an adult.
 - A. Strongly agree
 - B. Agree a little
 - C. Disagree a little
 - D. Strongly disagree

17. I have an idea what kind of education I will need to get the job or type of work I want when I am an adult.
 - A. Strongly agree
 - B. Agree a little
 - C. Disagree a little
 - D. Strongly disagree

18. How often do you feel that the school work you are assigned is meaningful and important?
 - A. Almost always
 - B. Often
 - C. Sometimes
 - D. Seldom
 - E. Never

19. How interesting are most of your courses to you?
 - A. Very interesting and stimulating
 - B. Quite interesting
 - C. Fairly interesting
 - D. Slightly dull
 - E. Very dull and boring

20. How important do you think the things you are learning in school are going to be for your later life?
 - A. Very important
 - B. Quite important
 - C. Fairly important
 - D. Slightly important
 - E. Not important at all

21. Over the past month, how often did you enjoy being in school?
 - A. Almost always
 - B. Often
 - C. Sometimes
 - D. Seldom
 - E. Never

22. Over the past month, how often did you hate being in school?
 - A. Almost always
 - B. Often
 - C. Sometimes
 - D. Seldom
 - E. Never

23. Over the past month, how often did you try to do your best in school?
 - A. Almost always
 - B. Often
 - C. Sometimes
 - D. Seldom
 - E. Never

24. How many of your friends do you think have had some kind of alcoholic beverage for other than religious purposes or special events or holidays?
 - A. All of them
 - B. Most of them
 - C. Some of them
 - D. None of them

25. How many of your friends do you think have smoked cigarettes regularly?
 - A. All of them
 - B. Most of them
 - C. Some of them
 - D. None of them

26. How many of your friends do you think have chewed tobacco regularly?
 - A. All of them
 - B. Most of them
 - C. Some of them
 - D. None of them

27. How many of your friends do you think have use inhalants like glue, gasoline, markers, aerosols, etc?
 - A. All of them
 - B. Most of them
 - C. Some of them
 - D. None of them

28. How many of your friends do you think have used an illegal drug like marijuana, meth, cocaine or heroin?
 - A. All of them
 - B. Most of them
 - C. Some of them
 - D. None of them

29. What would your friends think if you got drunk once in a while?
 - A. They would be angry with me.
 - B. They would be a little upset.
 - C. They wouldn't care one way or the other.
 - D. They would think it was cool.
 - E. They would encourage me to do it again.

30. What would your friends think if you smoked cigarettes?
- A. They would be angry with me.
 - B. They would be a little upset.
 - C. They wouldn't care one way or the other.
 - D. They would think it was cool.
 - E. They would encourage me to do it again.
31. What would your friends think if you chewed tobacco?
- A. They would be angry with me.
 - B. They would be a little upset.
 - C. They wouldn't care one way or the other.
 - D. They would think it was cool.
 - E. They would encourage me to do it again..
32. What would your friends think if you used inhalants like glue, gasoline, markers, aerosols, etc?
- A. They would be angry with me.
 - B. They would be a little upset.
 - C. They wouldn't care one way or the other.
 - D. They would think it was cool.
 - E. They would encourage me to do it again.
33. What would your friends think if you an illegal drug like marijuana, meth, cocaine or heroin?
- A. They would be angry with me.
 - B. They would be a little upset.
 - C. They wouldn't care one way or the other.
 - D. They would think it was cool.
 - E. They would encourage me to do it again.
34. "People who use drugs are dumb or stupid."
- A. Strongly agree
 - B. Agree a little
 - C. Disagree a little
 - D. Strongly disagree
35. As an adult, how many alcoholic beverages do you feel you could have and still drive?
- A. 0
 - B. 1 or 2
 - C. 3 or 4
 - D. 5 or more
36. Marijuana is an illegal drug; do you feel it is as dangerous as other illegal drugs?
- A. NO!
 - B. no
 - C. yes
 - D. YES!
37. Drinking alcohol affects the way the brain works.
- A. True
 - B. False
 - C. Not Sure

38. Smoking marijuana affects the way the brain works.
- A. True
 - B. False
 - C. Not Sure
39. Using tobacco products is not too dangerous because you can always quit later.
- A. True
 - B. False
 - C. Not Sure
40. It is okay to mix alcohol with other drugs or medicine.
- A. True
 - B. False
 - C. Not Sure

7.2 Appendix 2. Average Scale Scores for Normative Belief Sub-scales by Iteration

Figure 13: Normative Beliefs - Alcohol

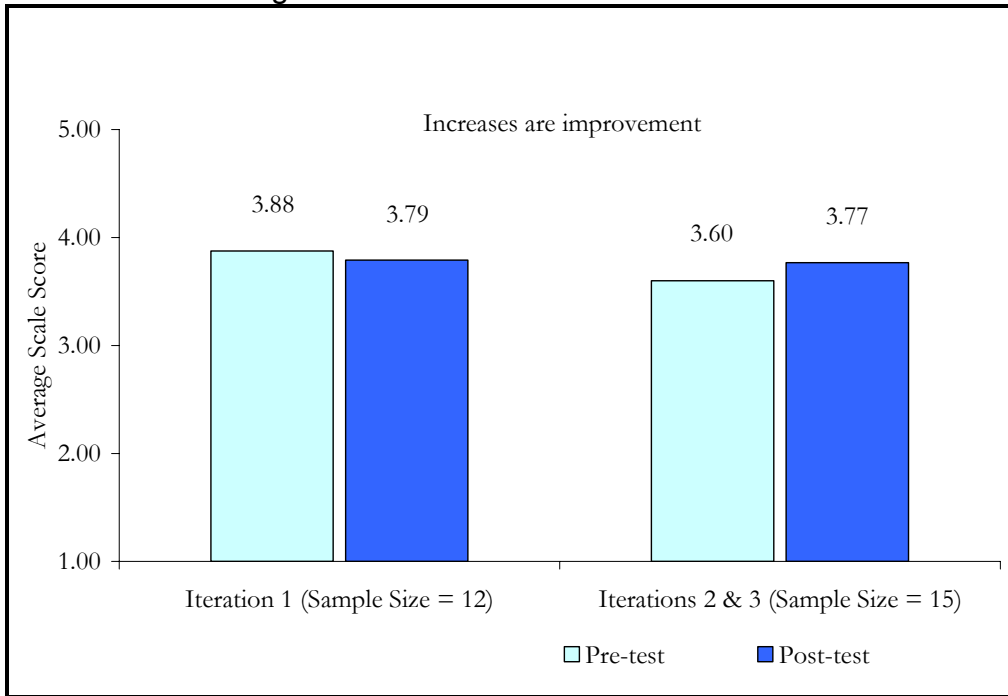


Figure 14: Normative Beliefs - Smoking

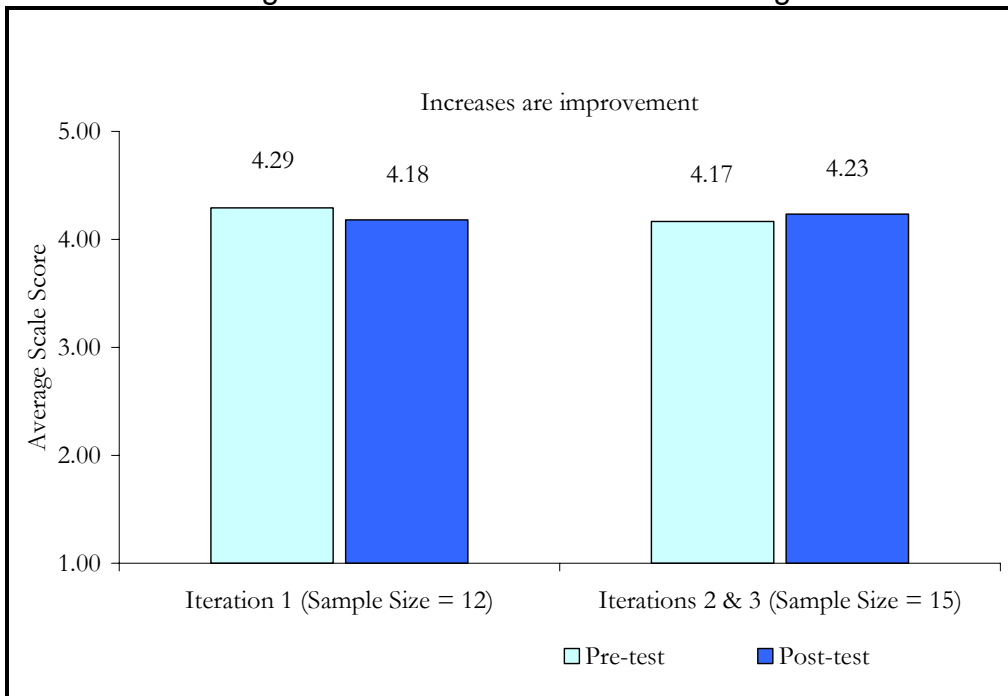


Figure 15: Normative Beliefs – Spit Tobacco

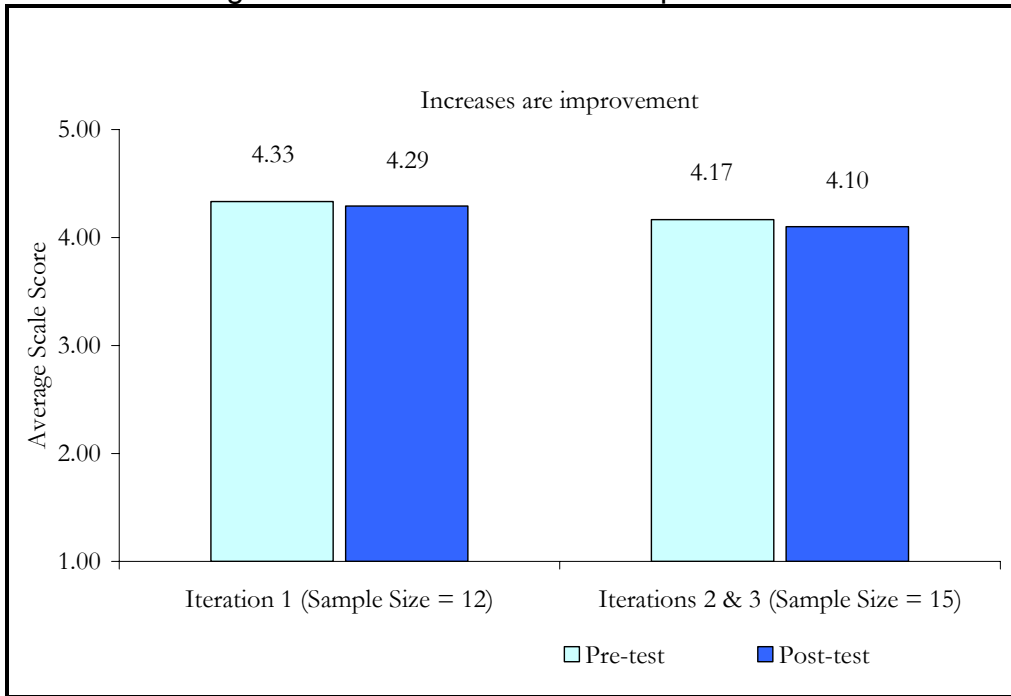


Figure 16: Normative Beliefs - Inhalants

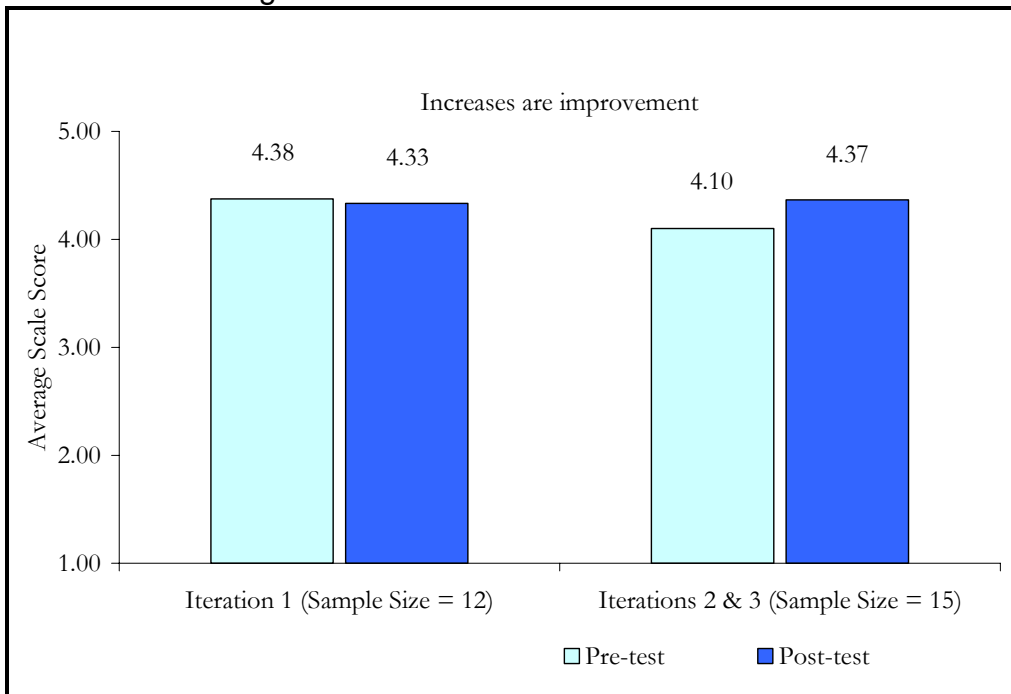
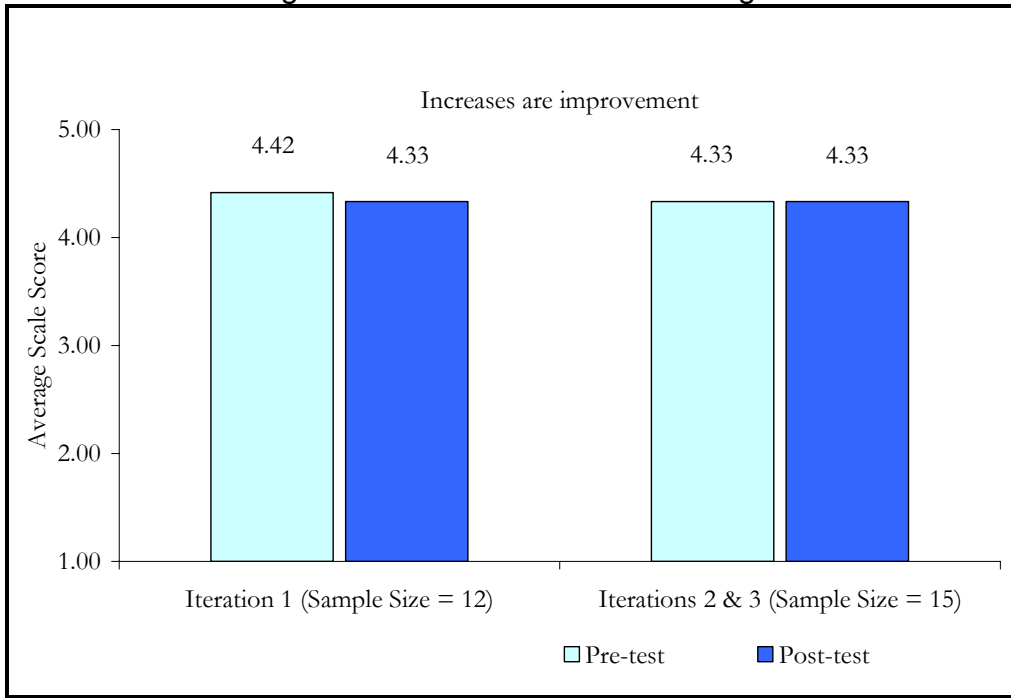


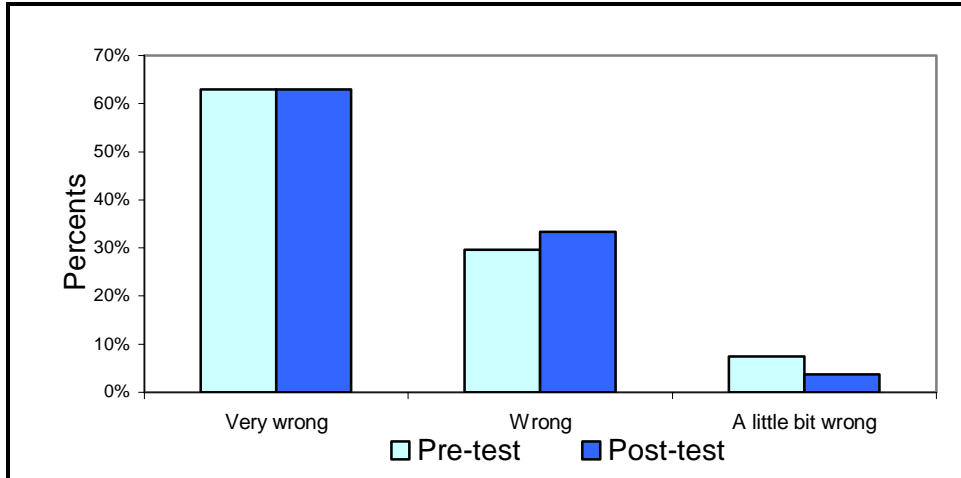
Figure 17: Normative Beliefs - Drugs



7.3 Appendix 3. Frequencies for Survey Questions

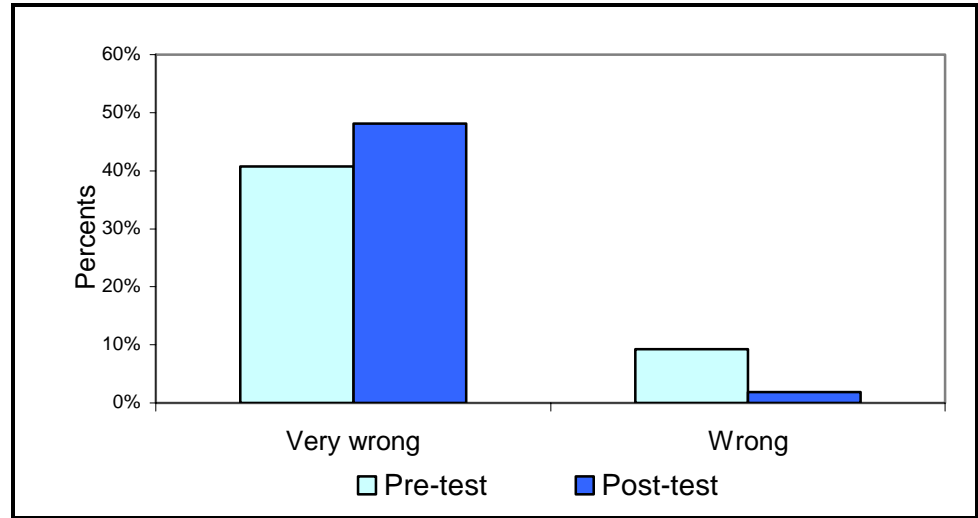
Question 1: How do you feel about someone your age drinking beer, wine, or hard liquor?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Very wrong	17	63.0	17	63.0
Wrong	8	29.6	9	33.3
A little bit wrong	2	7.4	1	3.7
Total	27	100.0	27	100.0



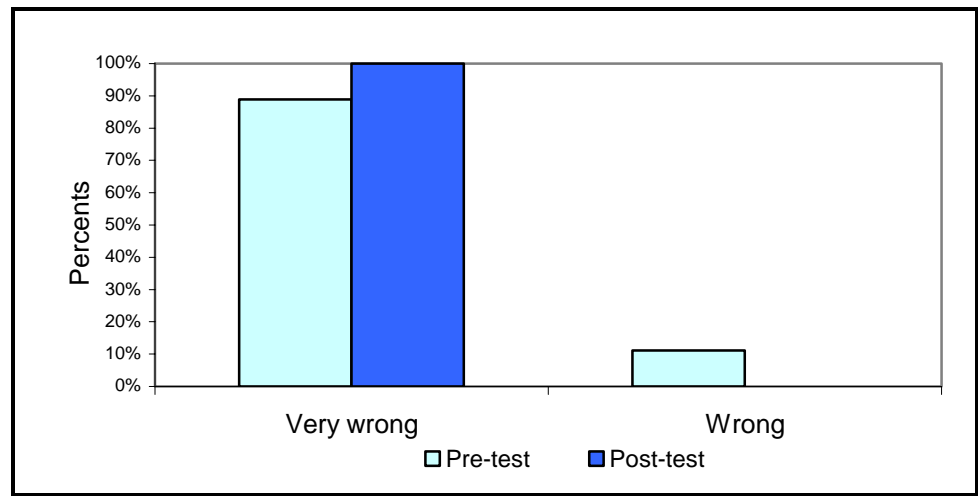
Question 2: How do you feel about someone your age smoking cigarettes?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Very wrong	22	81.5	26	96.3
Wrong	5	18.5	1	3.7
Total	27	100.0	27	100.0



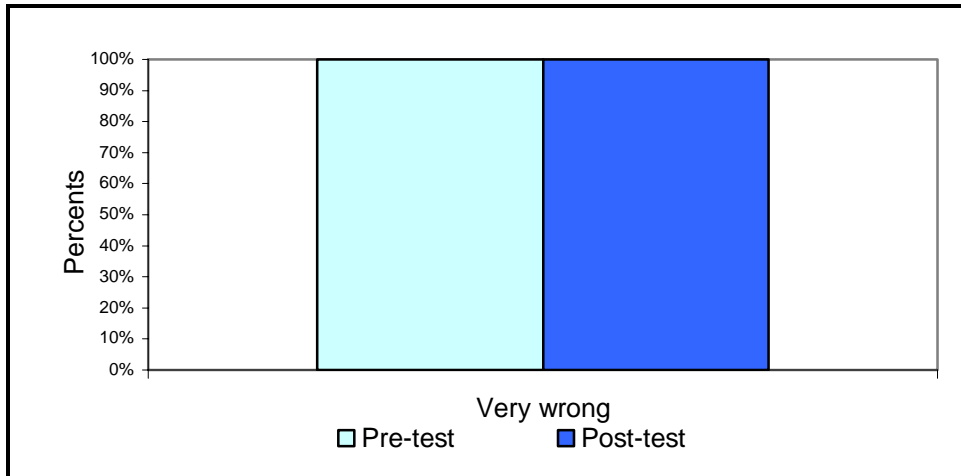
Question 3: How do you feel about someone your age chewing tobacco?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Very wrong	24	88.9	27	100.0
Wrong	3	11.1	0	0
Total	27	100.0	27	100.0



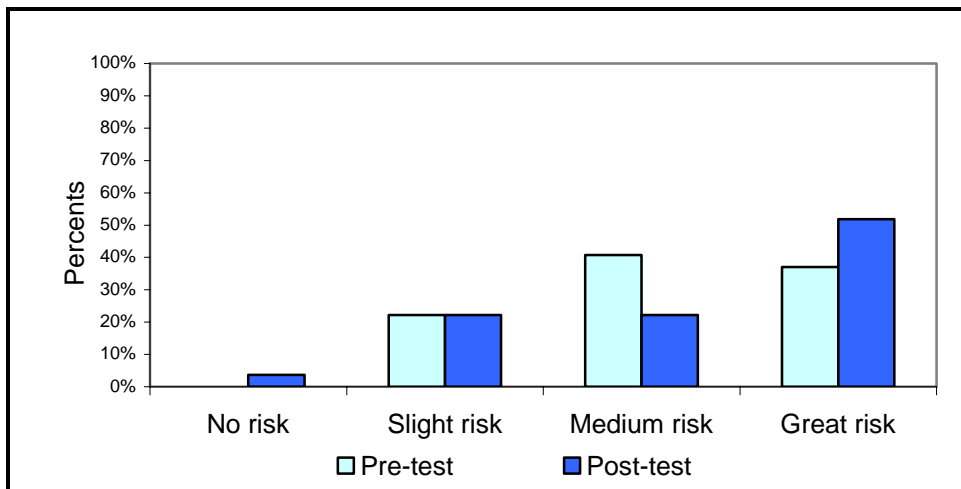
Question 4: How do you feel about someone your age using marijuana, meth, cocaine, crack, or other illegal drugs?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Very wrong	27	100.0	27	100.0



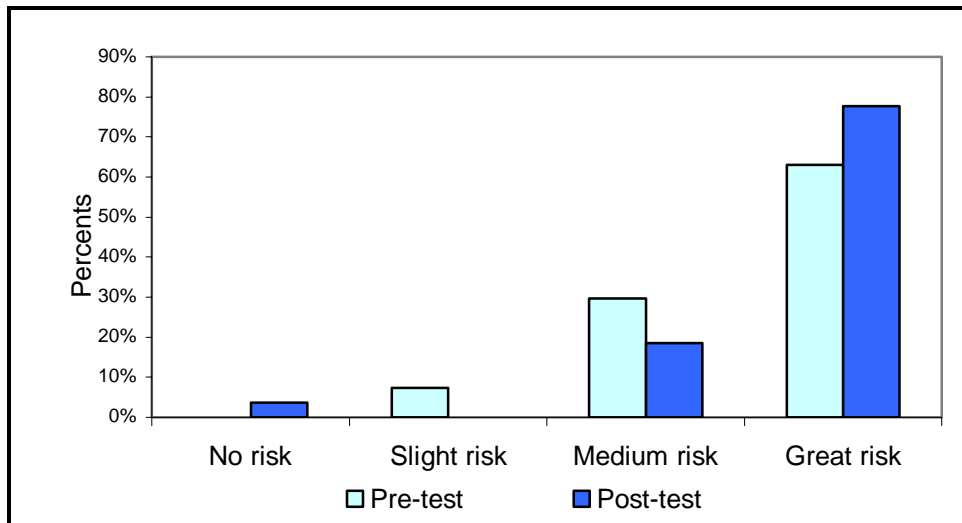
Question 5: How much do you think kids your age risk harming themselves if they take 1 to 2 drinks of an alcoholic beverage nearly every day?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
No risk	0	0	1	3.7
Slight risk	6	22.2	6	22.2
Medium risk	11	40.7	6	22.2
Great risk	10	37.0	14	51.9
Total	27	100.0	27	100.0



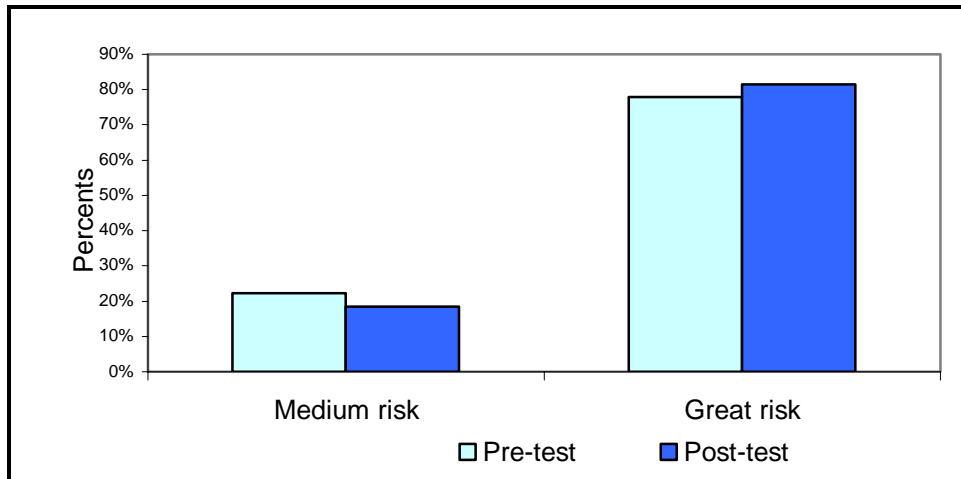
Question 6: How much do you think kids your age risk harming themselves if they chew tobacco daily?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
No risk	0	0	1	3.7
Slight risk	2	7.4	0	0
Medium risk	8	29.6	5	18.5
Great risk	17	63.0	21	77.8
Total	27	100.0	27	100.0



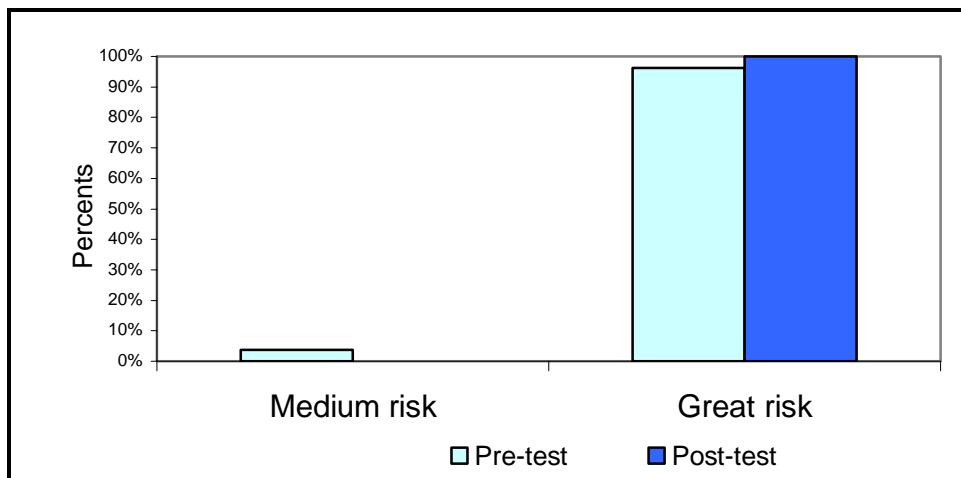
Question 7: How much do you think kids your age risk harming themselves if they smoke cigarettes every day.

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Medium risk	6	22.2	5	18.5
Great risk	21	77.8	22	81.5
Total	27	100.0	27	100.0



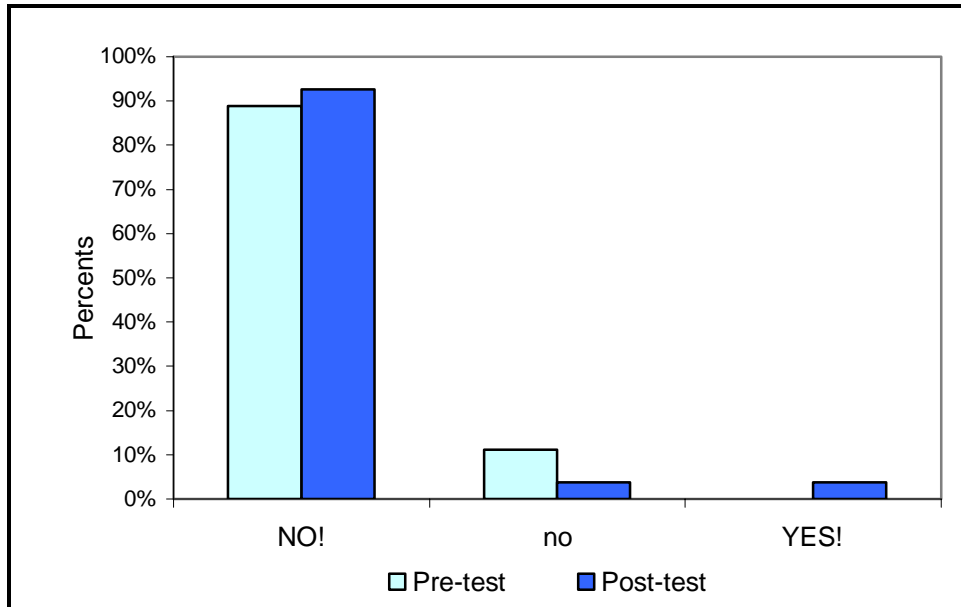
Question 8: How much do you think kids your age risk harming themselves if they use illegal drugs such as marijuana, crack, meth, or cocaine regularly?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Medium risk	1	3.7	0	0
Great risk	26	96.3	27	100.0
Total	27	100.0	27	100.0



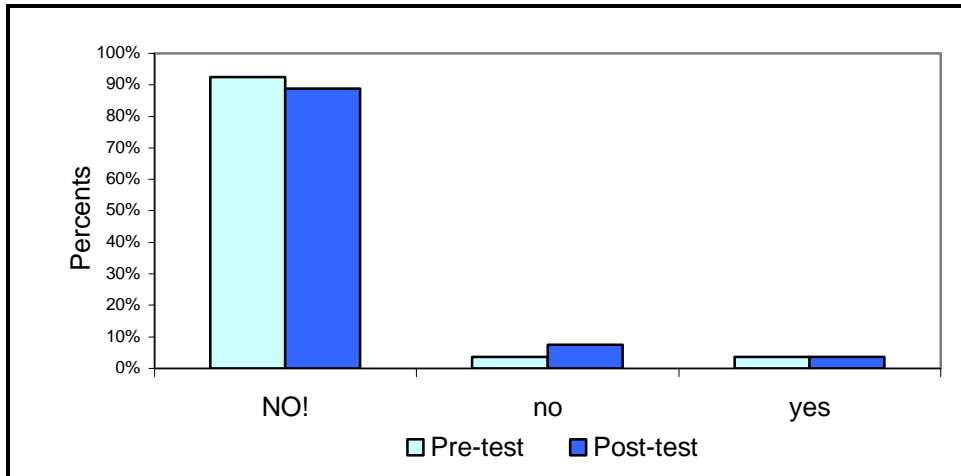
Question 9: When I am an adult, I will smoke cigarettes.

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
NO!	24	88.9	25	92.6
no	3	11.1	1	3.7
YES!	0	0	1	3.7
Total	27	100.0	27	100.0



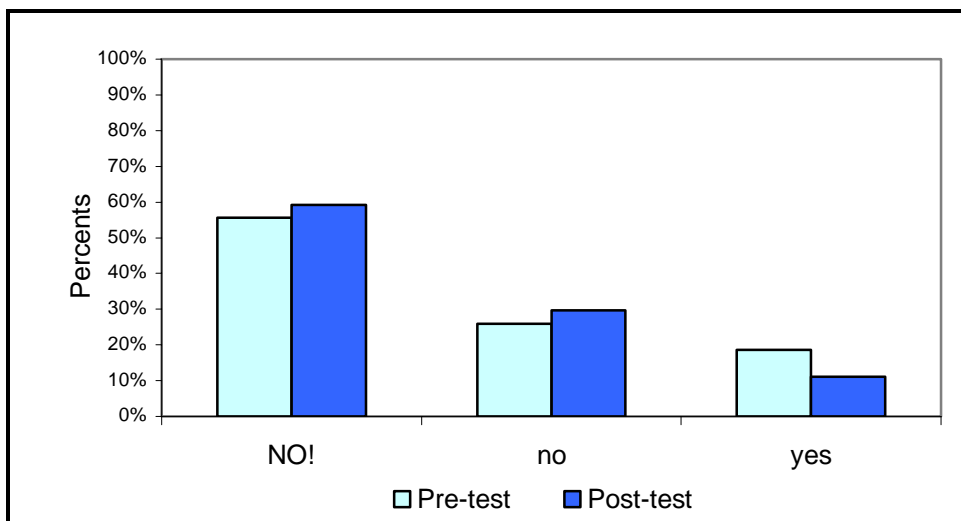
Question 10: -When I am an adult, I will chew tobacco.

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
NO!	25	92.6	24	88.9
no	1	3.7	2	7.4
yes	1	3.7	1	3.7
Total	27	100.0	27	100.0



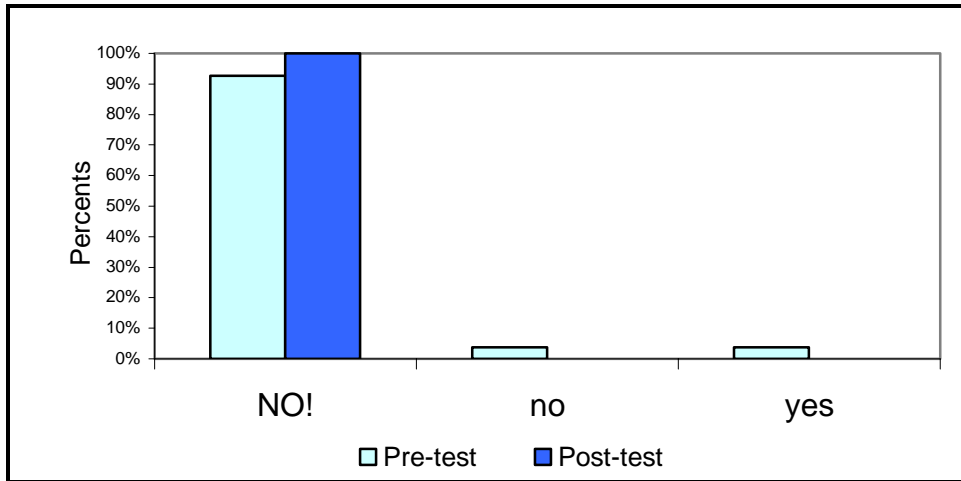
Question 11: When I am an adult, I will drink wine or beer to get drunk.

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
NO!	15	55.6	16	59.3
no	7	25.9	8	29.6
yes	5	18.5	3	11.1
Total	27	100.0	27	100.0



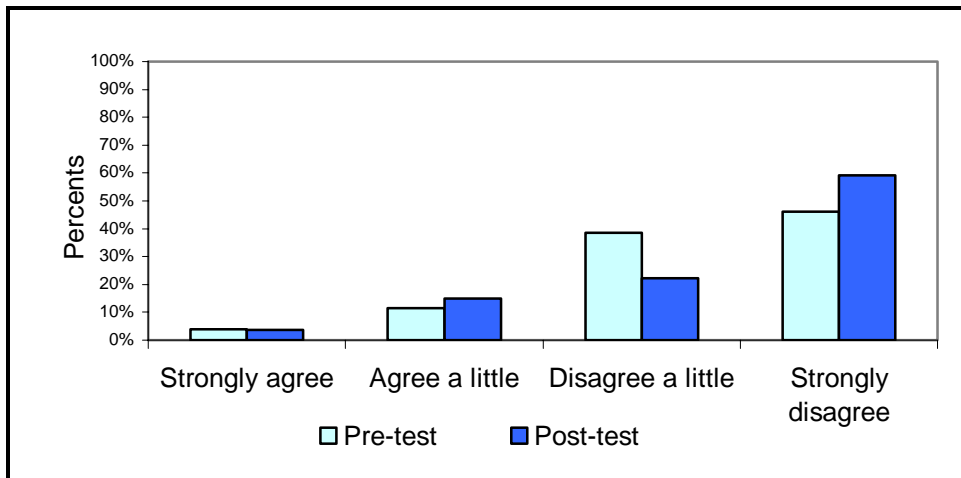
Question 12: When I am an adult, I will use illegal drugs.

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
NO!	25	92.6	27	100.0
no	1	3.7	0	0
yes	1	3.7	0	0
Total	27	100.0	27	100.0



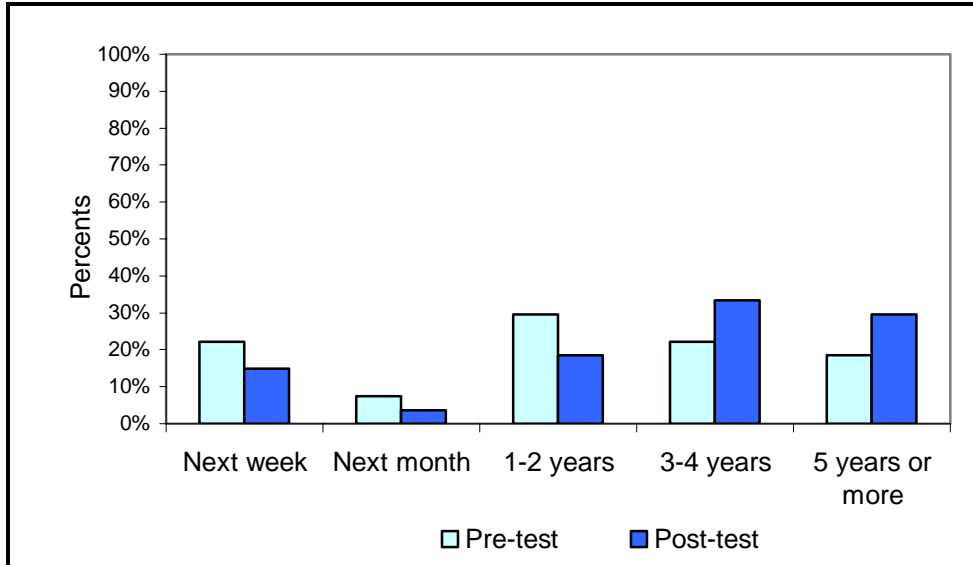
Question 13: At my age, I don't really need to plan for my future or set goals.

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Strongly agree	1	3.8	1	3.7
Agree a little	3	11.5	4	14.8
Disagree a little	10	38.5	6	22.2
Strongly disagree	12	46.2	16	59.3
Total	26	100.0	27	100.0



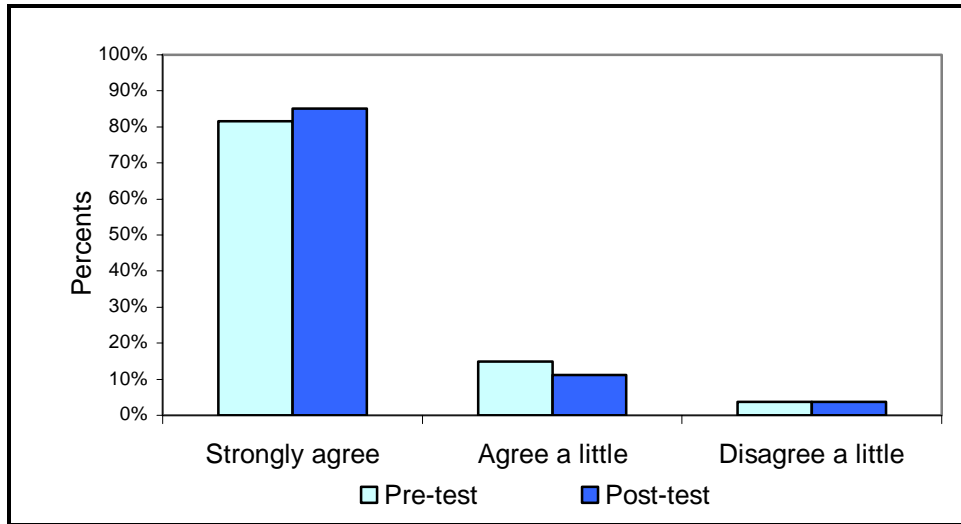
Question 14: What is the maximum time you consider when you plan for your future?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Next week	6	22.2	4	14.8
Next month	2	7.4	1	3.7
1-2 years	8	29.6	5	18.5
3-4 years	6	22.2	9	33.3
5 years or more	5	18.5	8	29.6
Total	27	100.0	27	100.0



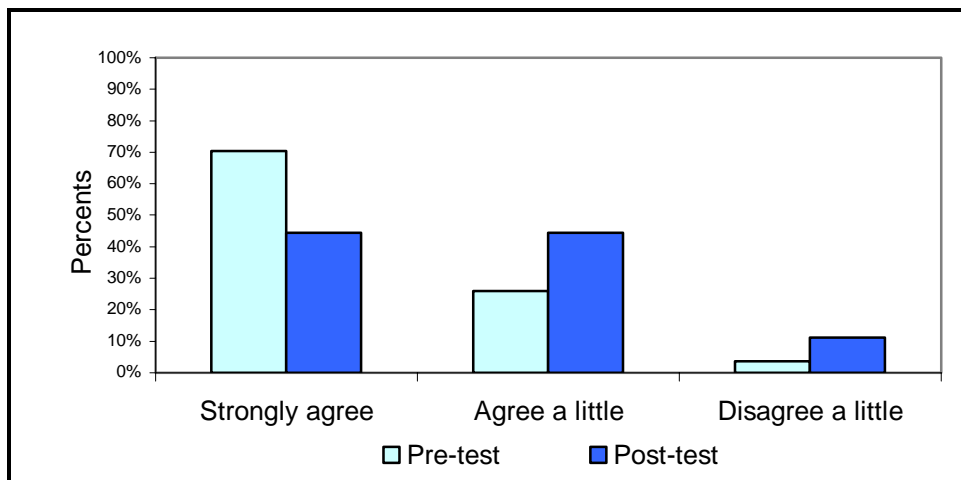
Question 15: Learning healthy habits now will help me as an adult.

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Strongly agree	22	81.5	23	85.2
Agree a little	4	14.8	3	11.1
Disagree a little	1	3.7	1	3.7
Total	27	100.0	27	100.0



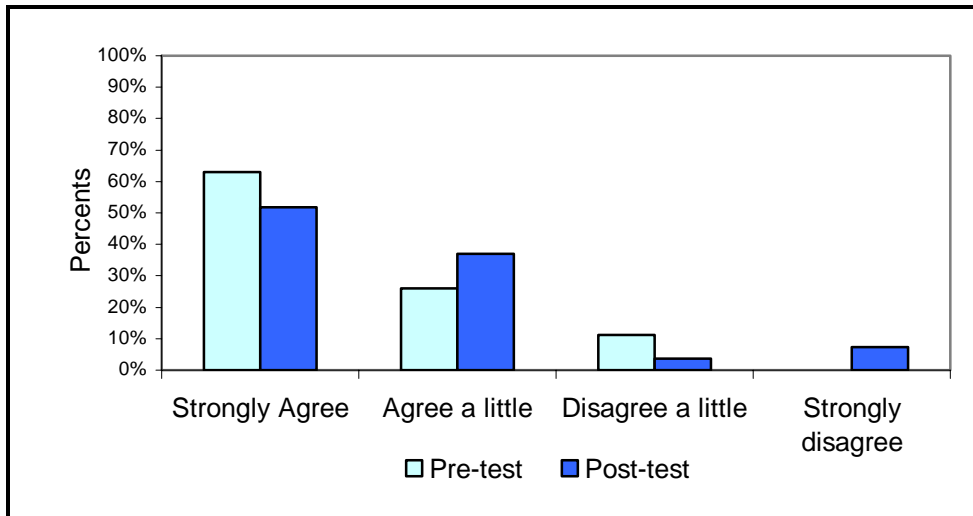
Question 16: I have thought about the job or type of work I want to do as an adult.

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Strongly agree	19	70.4	12	44.4
Agree a little	7	25.9	12	44.4
Disagree a little	1	3.7	3	11.1
Total	27	100.0	27	100.0



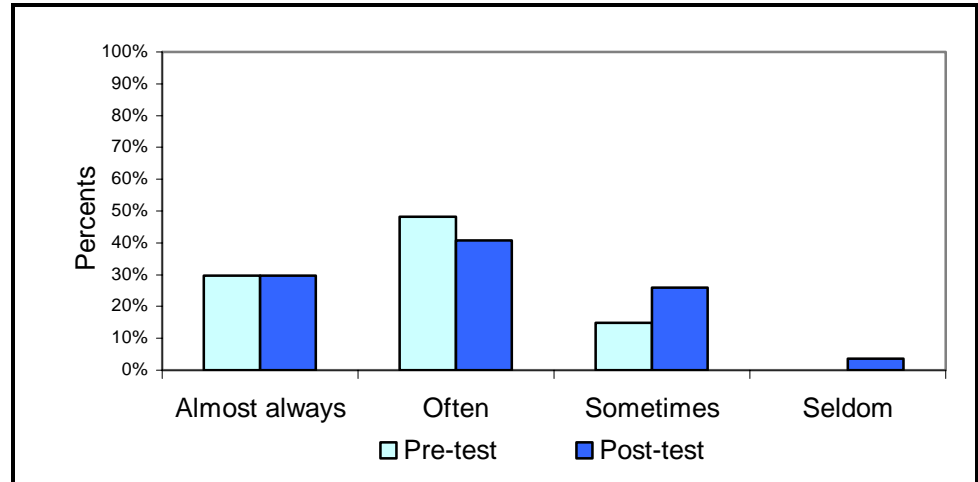
Question 17: I have an idea what kind of education I will need to get the job or type of work I want when I am an adult.

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Strongly Agree	17	63.0	14	51.9
Agree a little	7	25.9	10	37.0
Disagree a little	3	11.1	1	3.7
Strongly disagree	0	0	2	7.4
Total	27	100.0	27	100.0



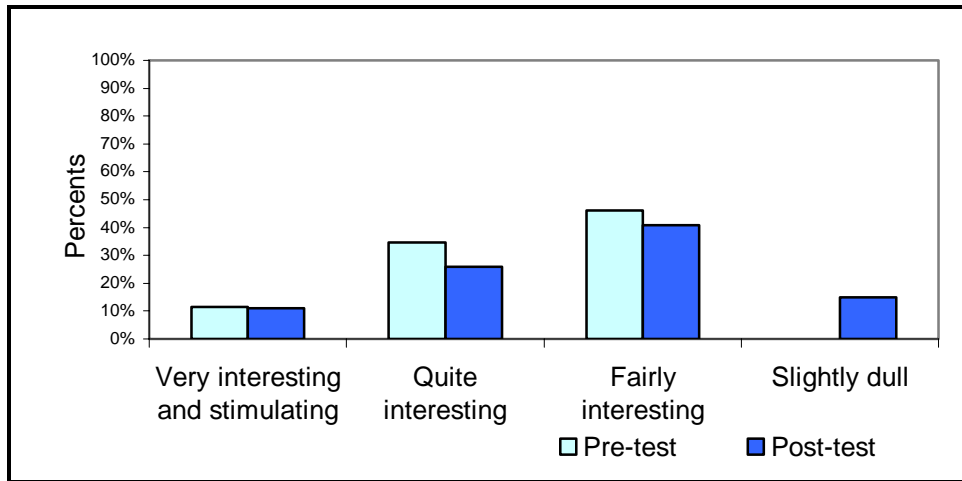
Question 18: How often do you feel the school work you are assigned is meaningful and important?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Almost always	8	29.6	8	29.6
Often	13	48.1	11	40.7
Sometimes	4	14.8	7	25.9
Seldom	2	7.4	1	3.7
Total	27	100.0	27	100.0



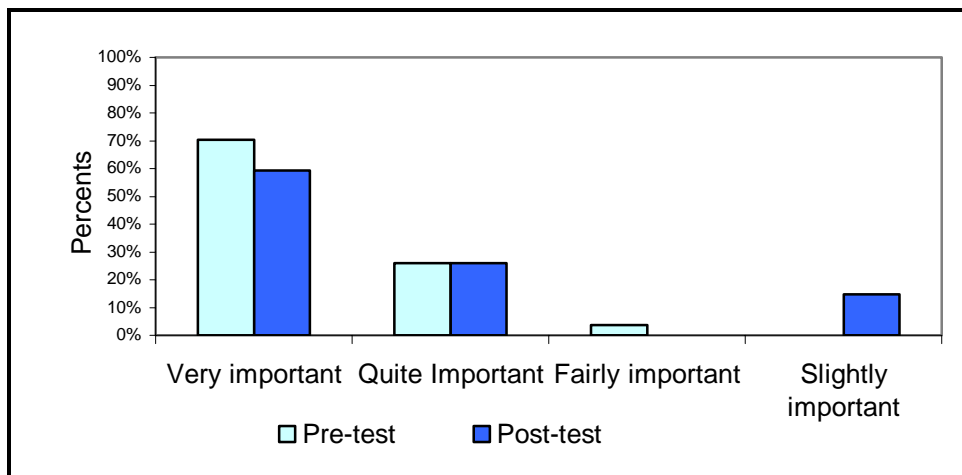
Question 19: How interesting are most of your courses to you?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Very interesting and stimulating	3	11.5	3	11.1
Quite interesting	9	34.6	7	25.9
Fairly interesting	12	46.2	11	40.7
Slightly dull	0	0	4	14.8
Very dull and boring	2	7.7	2	7.4
Total	26	100.0	27	100.0



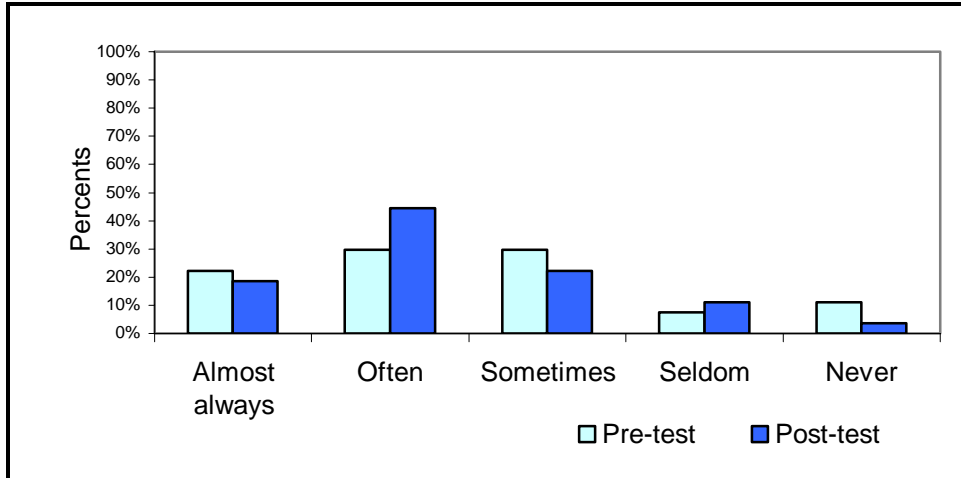
Question 20: How important do you think the things you are learning in school are going to be for you in later life?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Very important	19	70.4	16	59.3
Quite Important	7	25.9	7	25.9
Slightly important	1	3.7	4	14.8
Total	27	100.0	27	100.0



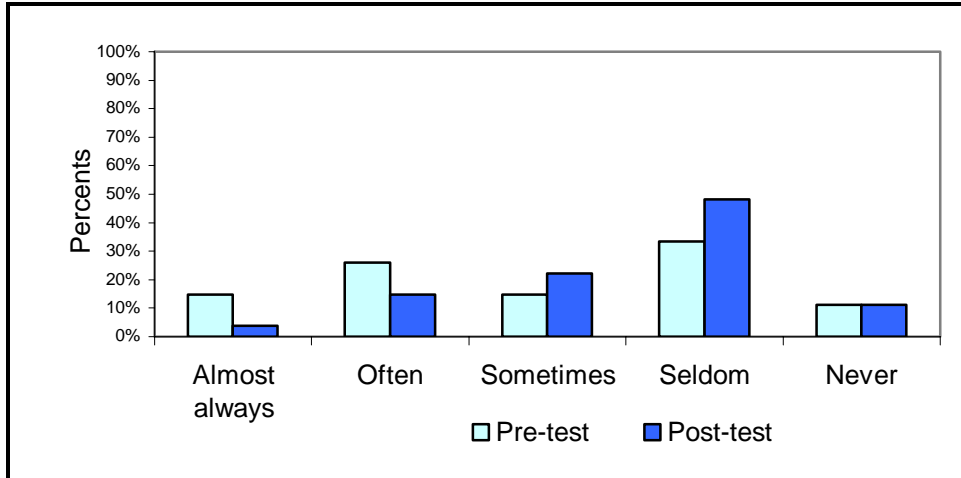
Question 21: Over the past month, how often did you enjoy being in school?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Almost always	6	22.2	5	18.5
Often	8	29.6	12	44.4
Sometimes	8	29.6	6	22.2
Seldom	2	7.4	3	11.1
Never	3	11.1	1	3.7
Total	27	100.0	27	100.0



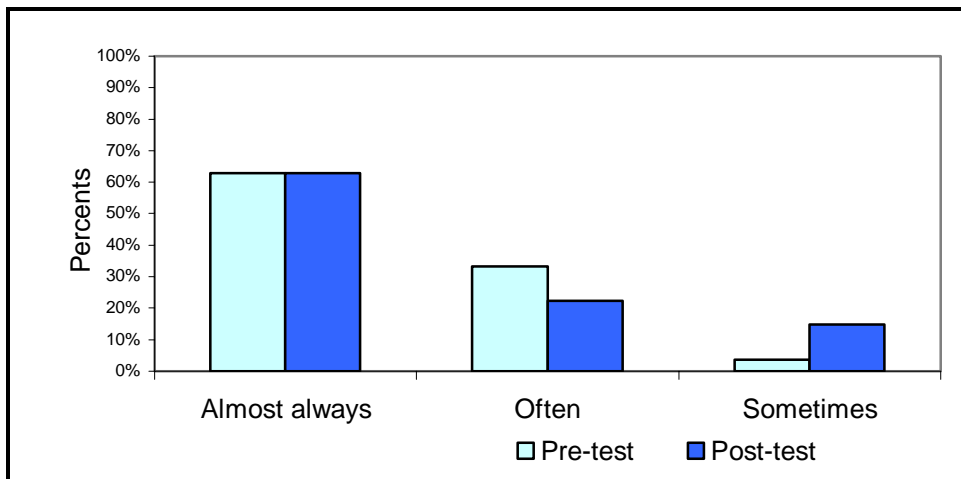
Question 22: Over the past month, how often did you hate being in school?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Almost always	4	14.8	1	3.7
Often	7	25.9	4	14.8
Sometimes	4	14.8	6	22.2
Seldom	9	33.3	13	48.1
Never	3	11.1	3	11.1
Total	27	100.0	27	100.0



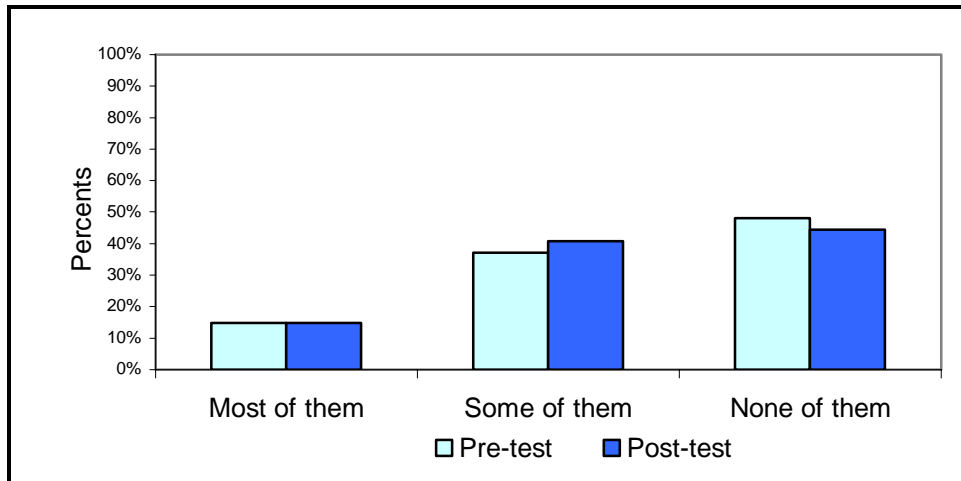
Question 23: Over the past month, how often did you try to do your best in school?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Almost always	17	63.0	17	63.0
Often	9	33.3	6	22.2
Sometimes	1	3.7	4	14.8
Total	27	100.0	27	100.0



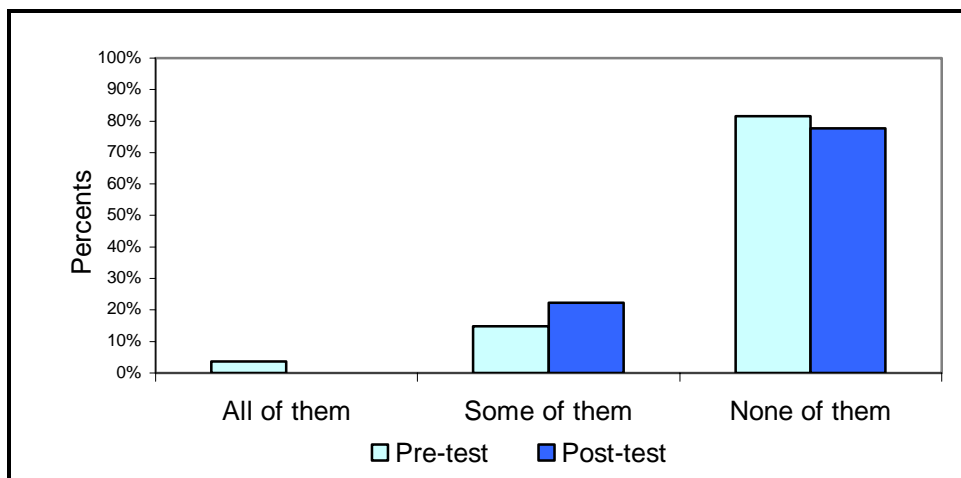
Question 24: How many of your friends do you think have had some kind of alcoholic beverage for other than religious purposes or special events or holidays?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Most of them	4	14.8	4	14.8
Some of them	10	37.0	11	40.7
None of them	13	48.1	12	44.4
Total	27	100.0	27	100.0



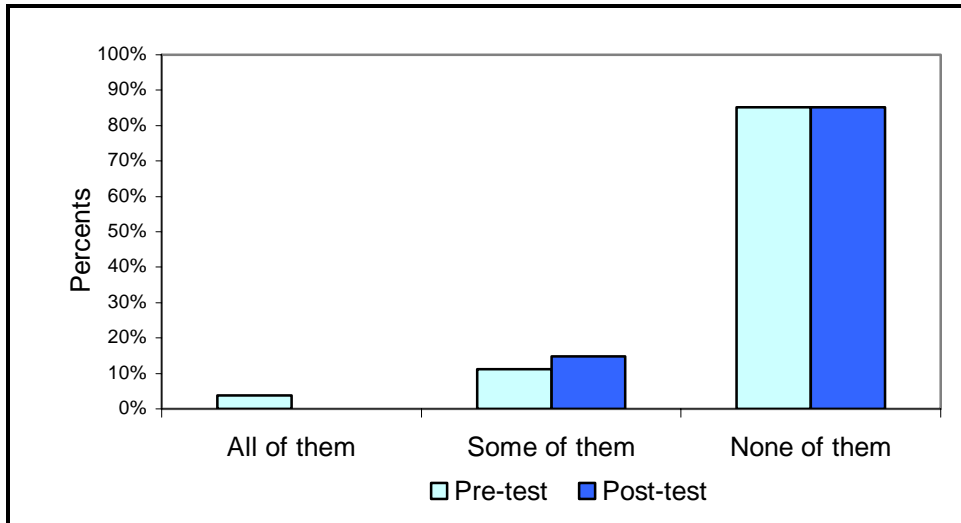
Question 25: How many of your friends do you think have smoked cigarettes regularly

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Valid All of them	1	3.7	0	0
Some of them	4	14.8	6	22.2
None of them	22	81.5	21	77.8
Total	27	100.0	27	100.0



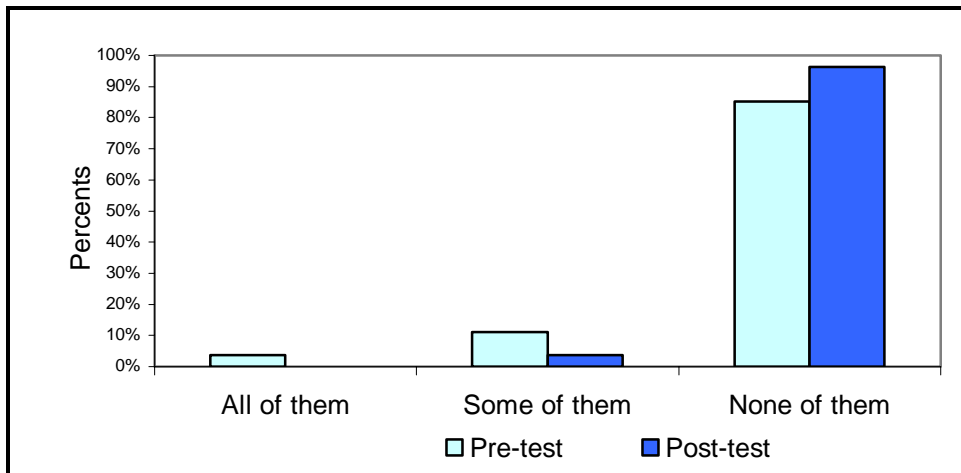
Question 26: How many of your friends do you think have chewed tobacco regularly

	Pre-test		Post-Test	
	Frequency	Percent	Frequency	Percent
All of them	1	3.7	0	0
Some of them	3	11.1	4	14.8
None of them	23	85.2	23	85.2
Total	27	100.0	27	100.0



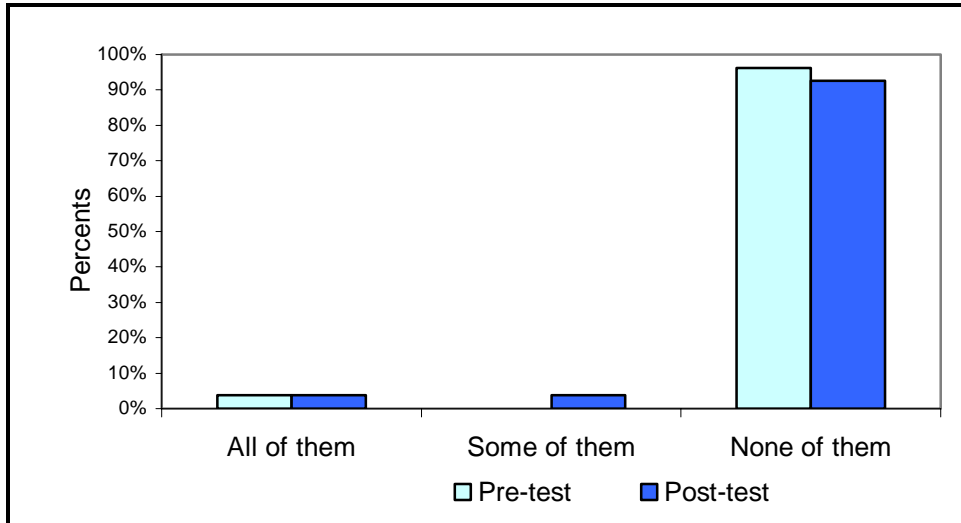
Question 27: How many of your friends do you think have used inhalants like glue, gasoline, marker, aerosols, etc?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
All of them	1	3.7	0	0
Some of them	3	11.1	1	3.7
None of them	23	85.2	26	96.3
Total	27	100.0	27	100.0



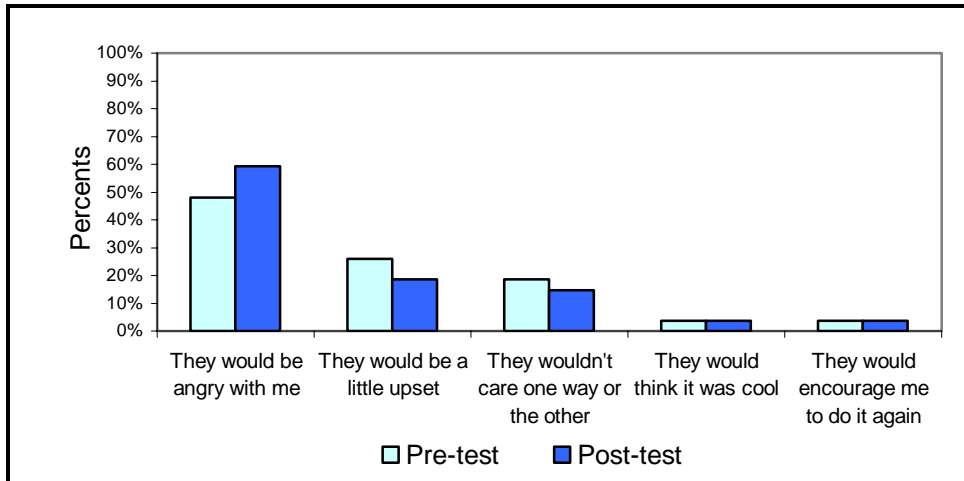
Question 28: How many of your friends do you think have used an illegal drug like marijuana, meth, cocaine, or heroine?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
All of them	1	3.7	1	3.7
Some of them	0	0	1	3.7
None of them	26	96.3	25	92.6
Total	27	100.0	27	100.0



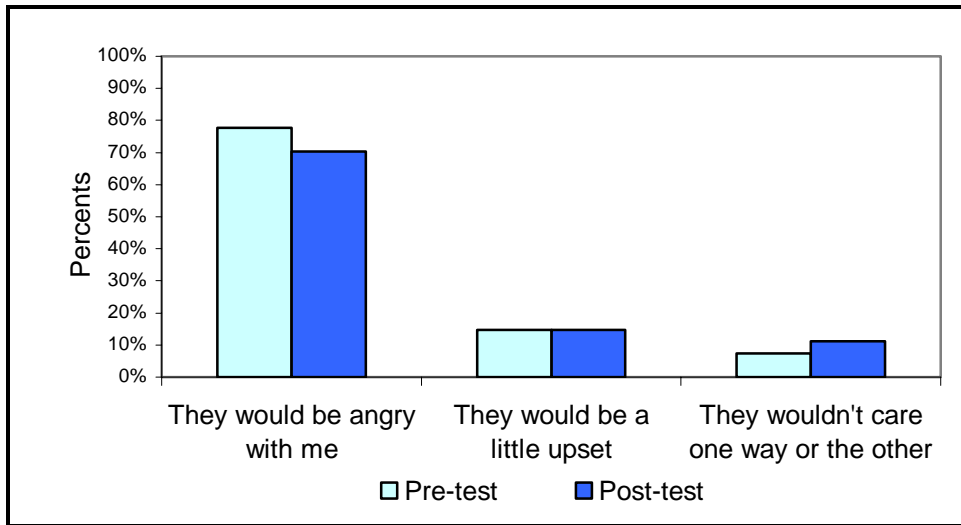
Question 29: What would your friends think if you got drunk once in a while?

	Pre-test		Post test	
	Frequency	Percent	Frequency	Percent
They would be angry with me	13	48.1	16	59.3
They would be a little upset	7	25.9	5	18.5
They wouldn't care one way or the other	5	18.5	4	14.8
They would think it was cool	1	3.7	1	3.7
They would encourage me to do it again	1	3.7	1	3.7
Total	27	100.0	27	100.0



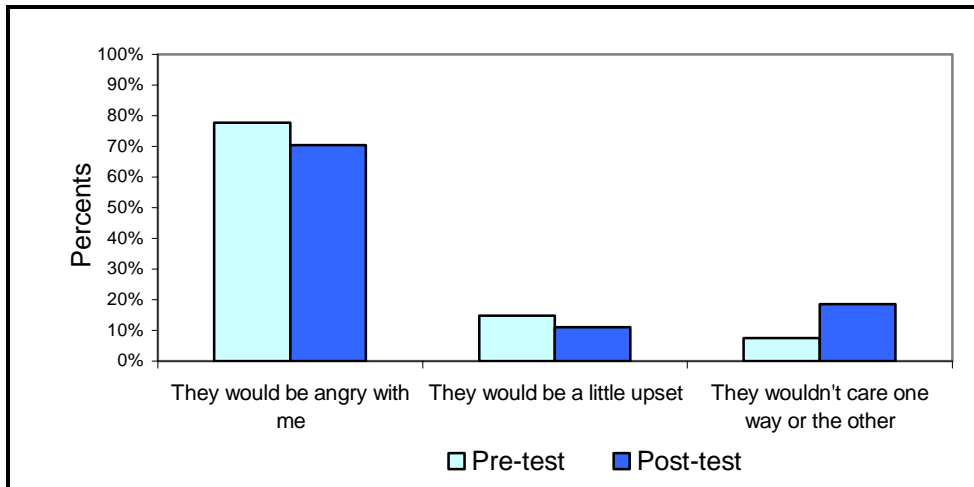
Question 30: What would your friends think if you smoked cigarettes?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
They would be angry with me	21	77.8	19	73.1
They would be a little upset	4	14.8	4	15.4
They wouldn't care one way or the other	2	7.4	3	11.5
Total	27	100.0	26	100.0



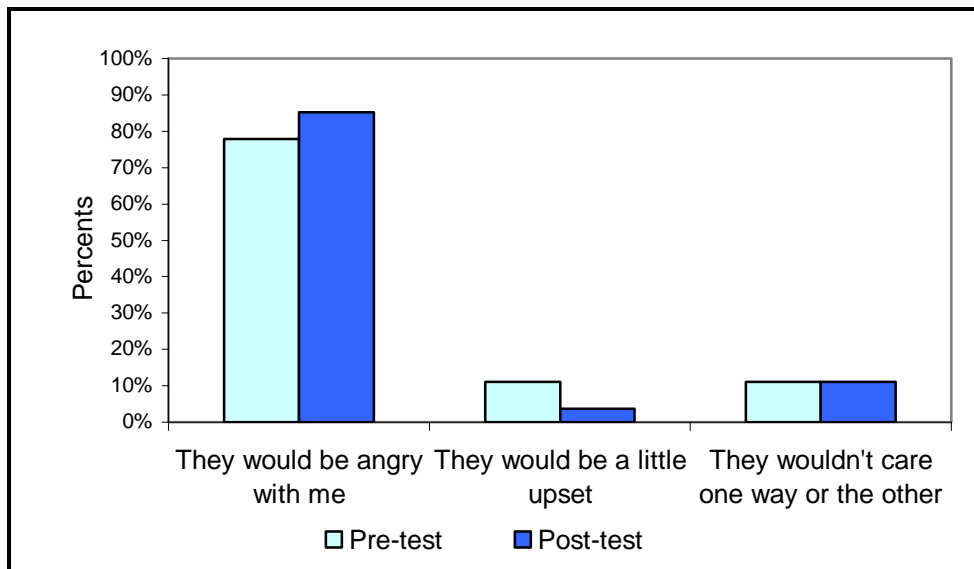
Question 31: -What would your friends think if you chewed tobacco

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
They would be angry with me	21	77.8	19	70.4
They would be a little upset	4	14.8	3	11.1
They wouldn't care one way or the other	2	7.4	5	18.5
Total	27	100.0	27	100.0



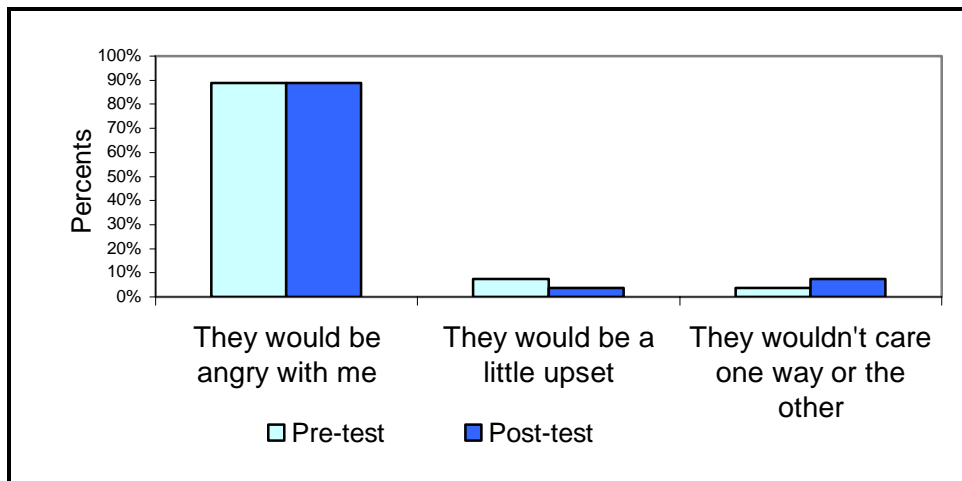
Question 32: What would your friends think if you used inhalants like glue, gasoline, marker, aerosols, etc?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
They would be angry with me	21	77.8	23	85.2
They would be a little upset	3	11.1	1	3.7
They wouldn't care one way or the other	3	11.1	3	11.1
Total	27	100.0	27	100.0



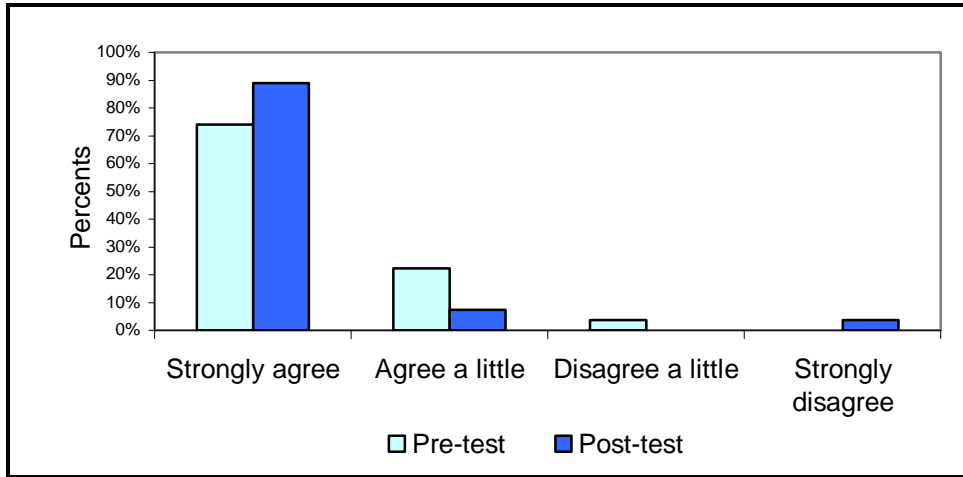
Question 33: What would your friends think if you used illegal drugs like marijuana, meth, cocaine, or heroine?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
They would be angry with me	24	88.9	24	88.9
They would be a little upset	2	7.4	1	3.7
They wouldn't care one way or the other	1	3.7	2	7.4
Total	27	100.0	27	100.0



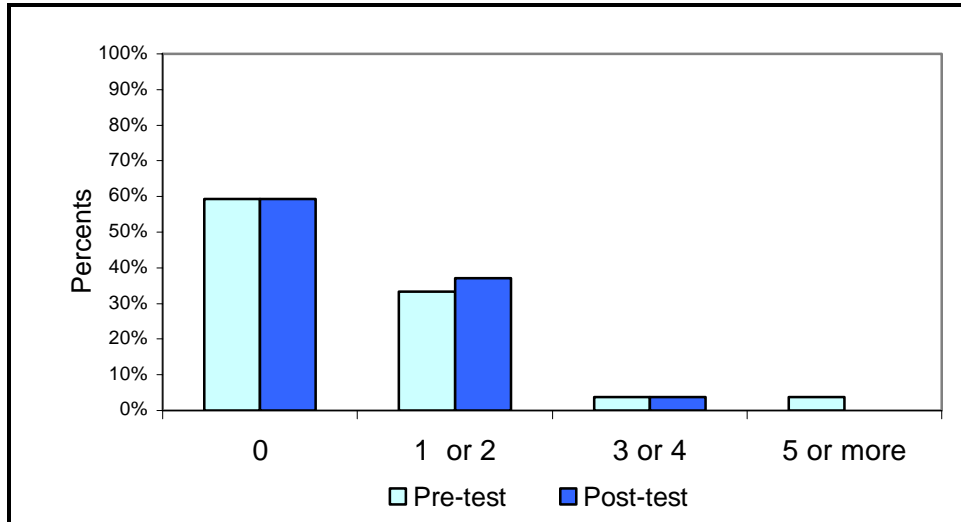
Question 34: People who use drugs are dumb or stupid.

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Strongly agree	20	74.1	24	88.9
Agree a little	6	22.2	2	7.4
Disagree a little	1	3.7	0	0
Strongly disagree	0	0	1	3.7
Total	27	100.0	27	100.0



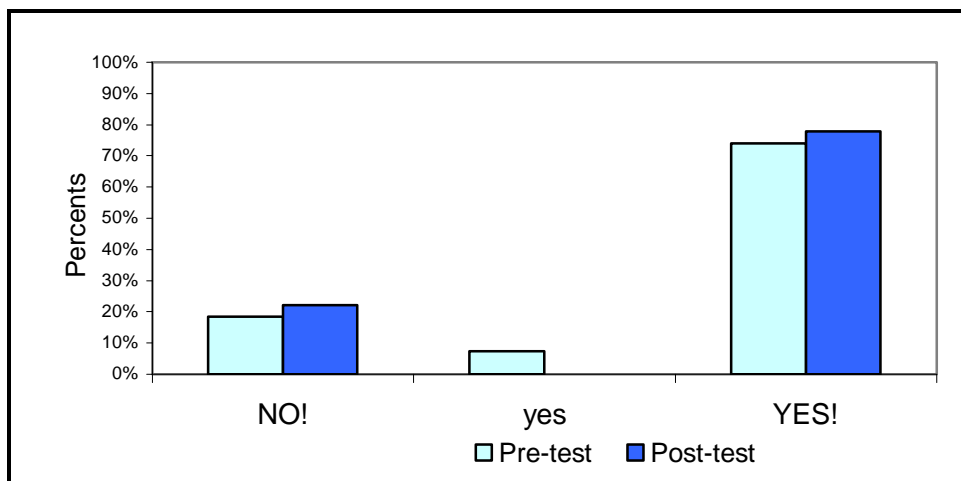
Question 35: As an adult, how many alcoholic beverages do you feel you could have and still drive?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
0	16	59.3	16	59.3
1 or 2	9	33.3	10	37.0
3 or 4	1	3.7	1	3.7
5 or more	1	3.7	0	0
Total	27	100.0	27	100.0



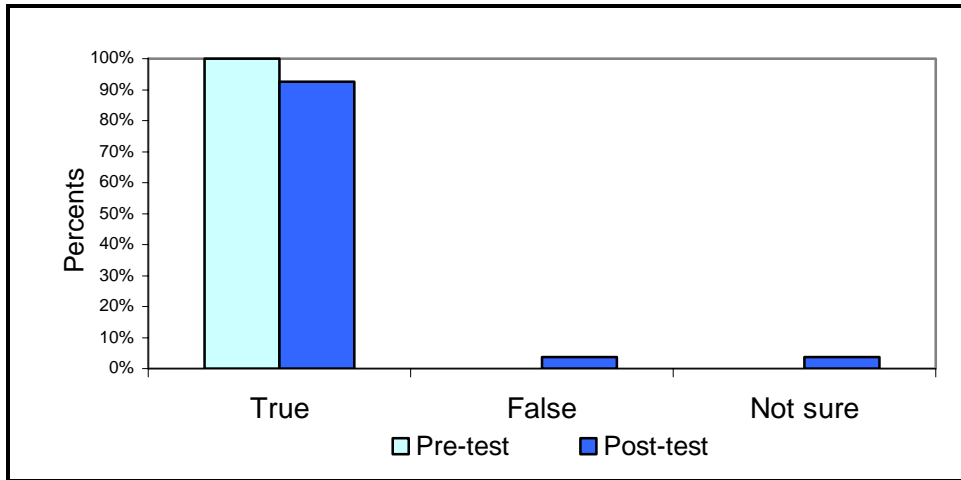
Question 36: Marijuana is an illegal drug. Do you feel it is as dangerous as other illegal drugs?

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
Valid NO!	5	18.5	6	22.2
yes	2	7.4	0	0
YES!	20	74.1	21	77.8
Total	27	100.0	27	100.0



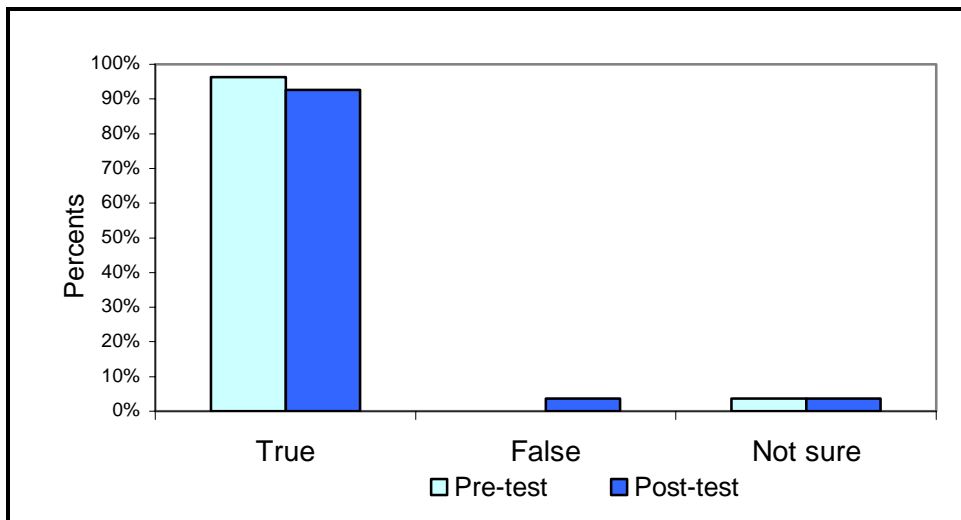
Question 37: Drinking alcohol affects the way the brain works.

		Pre-test		Post-test	
		Frequency	Percent	Frequency	Percent
Valid	True	27	100.0	25	92.6
	False	0	0	1	3.7
	Not sure	0	0	1	3.7
	Total	27	100.0	27	100.0



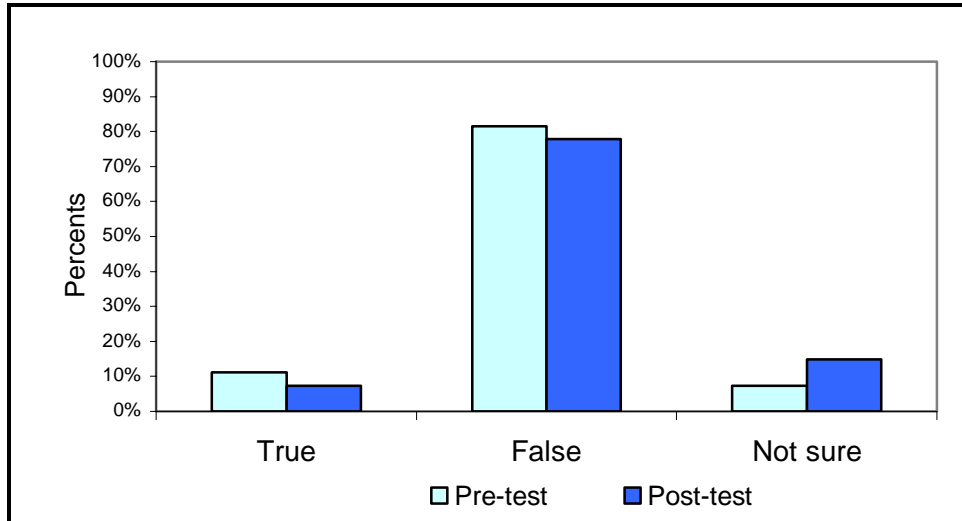
Question 38: Smoking marijuana affects the way the brain works.

		Pre-test		Post-test	
		Frequency	Percent	Frequency	Percent
	True	26	96.3	25	92.6
	False	0	0	1	3.7
	Not sure	1	3.7	1	3.7
	Total	27	100.0	27	100.0



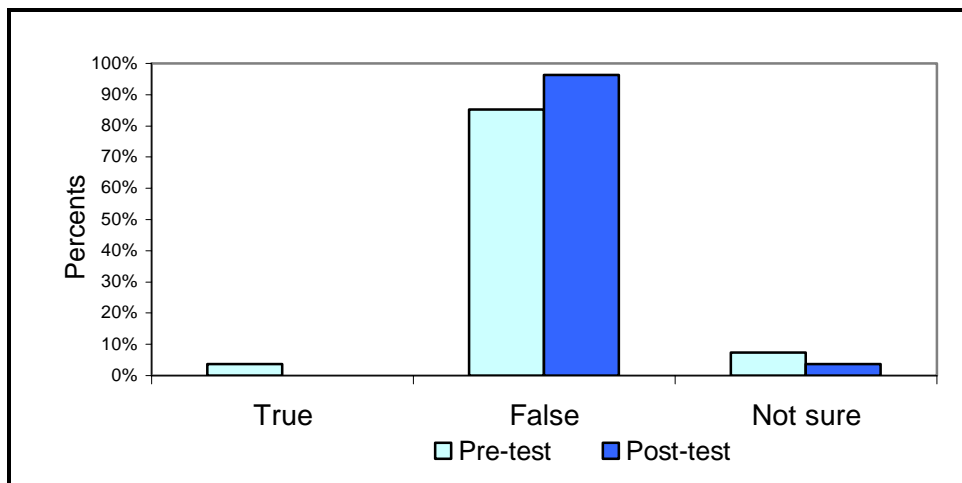
Question 39: Using tobacco products is not too dangerous because you can always quit later.

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
True	3	11.1	2	7.4
False	22	81.5	21	77.8
Not sure	2	7.4	4	14.8
Total	27	100.0	27	100.0



Question 40: It is okay to mix alcohol with other drugs or medicine.

	Pre-test		Post-test	
	Frequency	Percent	Frequency	Percent
True	1	3.7	0	0
False	23	85.2	26	96.3
Not sure	2	7.4	1	3.7
Total	26	96.3	27	100.0



8.4 Appendix 4. Cross-tabulations of Pre- and Post Survey Questions

Table A4.1: Question 1 Cross-tabulation

How do you feel about someone your age drinking beer, wine, or hard liquor?		Post-test			Total
		Very wrong	Wrong	A little bit wrong	
Pre-test	Very wrong	15	2	0	17
	Wrong	2	5	1	8
	A little bit wrong	0	2	0	2
Total		17	9	1	27

Table A4.2: Question 2 Cross-tabulation

How do you feel about someone your age smoking cigarettes?		Post-test		Total
		Very wrong	Wrong	
Pre-test	Very wrong	22	0	22
	Wrong	4	1	5
Total		26	1	27

Table A4.3: Question 3 Cross-tabulation

How do you feel about someone your age chewing tobacco?		Post-test		Total
		Very wrong	Wrong	
Pre-test	Very wrong	24		24
	Wrong	3		3
Total		27		27

Table A4.4: Question 4 Cross-tabulation

How do you feel about someone your age using marijuana, meth, cocaine, crack, or other illegal drug?		Post-test	Total
		Very wrong	
Pre-test	Very wrong	27	27
		27	27
Total		27	27

Table A4.5: Question 5 Cross-tabulation

How much do you think kids your age risk harming themselves if they take 1 to 2 drinks of an alcoholic beverage nearly every day?		Post-test.				Total
		No risk	Slight risk	Medium risk	Great risk	
Pre-test	Slight risk	0	4	2	0	6
	Medium risk	1	2	4	4	11
	Great risk	0	0	0	10	10
Total		1	6	6	14	27

Table A4.6: Question 6 Cross-tabulation

How much do you think kids your age risk harming themselves if they chew tobacco daily?		Post-test			Total
		No risk	Medium risk	Great risk	
Pre-test	Slight risk	0	0	2	2
	Medium risk	1	2	5	8
	Great risk	0	3	14	17
Total		1	5	21	27

Table A4.7: Question 7 Cross-tabulation

How much do you think kids your age risk harming themselves if they smoke cigarettes every day?		Post-test		Total
		Medium risk	Great risk	
Pre-test	Medium risk	2	4	6
	Great risk	3	18	21
Total		5	22	27

Table A4.8: Question 8 Cross-tabulation

How much do you think kids your age risk harming themselves if they use illegal drugs such as marijuana, crack, meth, or cocaine regularly?		Post-test		Total
		Medium risk	Great risk	
Pre-test	Medium risk	1	1	1
	Great risk	26	26	26
Total		27	27	27

Table A4.9: Question 9 Cross-tabulation

When I am an adult, I will smoke cigarettes.		Post-test			Total
		NO!	no	YES!	
Pre-test	NO!	23	0	1	24
	no	2	1	0	3
Total		25	1	1	27

Table A4.10: Question 10 Cross-tabulation

When I am an adult, I will chew tobacco.		Post-test			Total
		NO!	no	yes	
Pre-test	NO!	23	2	0	25
	no	1	0	0	1
	yes	0	0	1	1
Total		24	2	1	27

Table A4.11: Question 11 Cross-tabulation

When I am an adult, I will drink wine or beer to get drunk.		Post-test			Total
		NO!	no	yes	
Pre-test	NO!	15	0	0	15
	no	0	7	0	7
	yes	1	1	3	5
Total		16	8	3	27

Table A4.12: Question 12 Cross-tabulation

When I am an adult, I will use illegal drugs.		Post-test		Total
		NO!		
Pre-test	NO!		25	25
	no		1	1
	yes		1	1
Total			27	27

Table A4.13: Question 13 Cross-tabulation

At my age, I don't really need to plan for my future or set goals.		Post-test				Total
		Strongly agree	Agree a little	Disagree a little	Strongly disagree	
Pre-test	Strongly agree	0	1	0	0	1
	Agree a little	0	1	2	0	3
	Disagree a little	0	2	3	5	10
	Strongly disagree	1	0	1	10	12
Total		1	4	6	15	26

Table A4.14: Question 14 Cross-tabulation

What is the maximum time you consider when you plan for your future?		Post-test					Total
		Next week	Next month	1-2 years	3-4 years	5 years or more	
Pre-test	Next week	2	1	1	1	1	6
	Next month	1	0	0	1	0	2
	1-2 years	0	0	2	2	4	8
	3-4 years	0	0	2	3	1	6
	5 years or more	1	0	0	2	2	5
Total		4	1	5	9	8	27

Table A4.15: Question 15 Cross-tabulation

Learning healthy habits now will help me as an adult.		Post-test			Total
		Strongly agree	Agree a little	Strongly disagree	
Pre-test	Strongly agree	20	1	1	22
	Agree a little	3	1	0	4
	Disagree a little	0	1	0	1
Total		23	3	1	27

Table A4.16: Question 16 Cross-tabulation

I have thought about the job or type of work I want to do as an adult.		Post-test			Total
		Strongly agree	Agree a little	Disagree a little	
Pre-test	Strongly agree	10	6	3	19
	Agree a little	2	5	0	7
	Disagree a little	0	1	0	1
Total		12	12	3	27

Table A4.17: Question 17 Cross-tabulation

I have an idea what kind of education I will need to get the job or type of work I want when I am an adult.		Post-test				Total
		Strongly agree	Agree a little	Disagree a little	Strongly disagree	
Pre-test	Strongly Agree	12	3	1	1	17
	Agree a little	2	4	0	1	7
	Disagree a little	0	3	0	0	3
Total		14	10	1	2	27

Table A4.18: Question 18 Cross-tabulation

How often do you feel the school work you are assigned is meaningful and important?		Post-test				Total
		Almost always	Often	Sometimes	Seldom	
Pre-test	Almost always	4	2	2	0	8
	Often	4	5	4	0	13
	Sometimes	0	3	1	0	4
	Seldom	0	1	0	1	2
Total		8	11	7	1	27

Table A4.19: Question 19 Cross-tabulation

How interesting are most of your courses to you?		Post-test					Total
		Very interesting and stimulating	Quite interesting	Fairly interesting	Slightly dull	Very dull and boring	
Pre-test	Very interesting and stimulating	1	1	0	1	0	3
	Quite interesting	2	3	2	1	1	9
	Fairly interesting	0	1	9	2	0	12
	Very dull and boring	0	1	0	0	1	2
Total		3	6	11	4	2	26

Table A4.20: Question 20 Cross-tabulation

How important do you think the things you are learning in school are going to be for you in later life?		Post-test			Total
		Very important	Quite Important	Fairly important	
Pre-test	Very important	14	3	2	19
	Quite Important	2	3	2	7
	Slightly important	0	1	0	1
Total		16	7	4	27

Table A4.21: Question 21 Cross-tabulation

Over the past month, how often did you enjoy being in school?		Post-test					Total
		Almost always	Often	Sometimes	Seldom	Never	
Pre-test	Almost always	2	3	0	1	0	6
	Often	0	6	2	0	0	8
	Sometimes	2	2	3	1	0	8
	Seldom	0	1	0	1	0	2
	Never	1	0	1	0	1	3
Total		5	12	6	3	1	27

Table A4.22: Question 22 Cross-tabulation

Over the past month, how often did you hate being in school?		Post-test					Total
		Almost always	Often	Sometimes	Seldom	Never	
Pre-test	Almost always	1	0	2	1	0	4
	Often	0	2	2	3	0	7
	Sometimes	0	2	1	0	1	4
	Seldom	0	0	1	7	1	9
	Never	0	0	0	2	1	3
Total		1	4	6	13	3	27

Table A4.23: Question 23 Cross-tabulation

Over the past month, how often did you try to do your best in school?		Post-test			Total
		Almost always	Often	Sometimes	
Pre-test	Almost always	12	3	2	17
	Often	5	2	2	9
	Sometimes	0	1	0	1
Total		17	6	4	27

Table A4.24: Question 24 Cross-tabulation

How many of your friends do you think have had some kind of alcoholic beverage for other than religious purposes or special events or holidays?		Post-test			Total
		Most of them	Some of them	None of them	
Pre-test	Most of them	1	2	1	4
	Some of them	0	5	5	10
	None of them	3	4	6	13
Total		4	11	12	27

Table A4.25: Question 25 Cross-tabulation

How many of your friends do you think have smoked cigarettes regularly?		Post-test		Total
		Some of them	None of them	
Pre-test	All of them	0	1	1
	Some of them	2	2	4
	None of them	4	18	22
Total		6	21	27

Table A4.26: Question 26 Cross-tabulation

How many of your friends do you think have chewed tobacco regularly?		Post-test		Total
		Some of them	None of them	
Pre-test	All of them	0	1	1
	Some of them	2	1	3
	None of them	2	21	23
Total		4	23	27

Table A4.27: Question 27 Cross-tabulation

How many of your friends do you think have used inhalants like glue, gasoline, marker, aerosols, etc?*		Post-test		Total
		Some of them	None of them	
Pre-test	All of them	0	1	1
	Some of them	0	3	3
	None of them	1	22	23
Total		1	26	27

Table A4.28: Question 28 Cross-tabulation

How many of your friends do you think have used an illegal drug like marijuana, meth, cocaine, or heroine?		Post-test.			Total
		All of them	Some of them	None of them	
Pre-test	All of them	0	0	1	1
	None of them	1	1	24	26
Total		1	1	25	27

Table A4.29: Question 29 Cross-tabulation

What would your friends think if you got drunk once in a while?		Post-test					Total
		They would be angry with me	They would be a little upset	They wouldn't care one way or the other	They would think it was cool	They would encourage me to do it again	
Pre-test	They would be angry with me	12	1	0	0	0	13
	They would be a little upset	3	4	0	0	0	7
	They wouldn't care one way or the other	1	0	3	1	0	5
	They would think it was cool	0	0	0	0	1	1
	They would encourage me to do it again	0	0	1	0	0	1
Total		16	5	4	1	1	27

Table A4.30: Question 30 Cross-tabulation

What would your friends think if you smoked cigarettes?		Post-test			Total
		They would be angry with me	They would be a little upset	They wouldn't care one way or the other	
Pre-test	They would be angry with me	18	2	1	21
	They would be a little upset	1	2	0	3
	They wouldn't care one way or the other	0	0	2	2
Total		19	4	3	26

Table A4.31: Question 31 Cross-tabulation

What would your friends think if you chewed tobacco?		Post-test			Total
		They would be angry with me	They would be a little upset	They wouldn't care one way or the other	
Pre-test	They would be angry with me	17	2	2	21
	They would be a little upset	2	1	1	4
	They wouldn't care one way or the other	0	0	2	2
Total		19	3	5	27

Table A4.32: Question 32 Cross-tabulation

What would your friends think if you used inhalants like glue, gasoline, marker, aerosols, etc?		Post-test.			Total
		They would be angry with me	They would be a little upset	They wouldn't care one way or the other	
Pre-test	They would be angry with me	20	0	1	21
	They would be a little upset	2	1	0	3
	They wouldn't care one way or the other	1	0	2	3
Total		23	1	3	27

Table A4.33: Question 33 Cross-tabulation

What would your friends think if you used illegal drugs like marijuana, meth, cocaine, or heroine?		Post-test			Total
		They would be angry with me	They would be a little upset	They wouldn't care one way or the other	
Pre-test	They would be angry with me	23	0	1	24
	They would be a little upset	1	1	0	2
	They wouldn't care one way or the other	0	0	1	1
Total		24	1	2	27

Table A4.34: Question 34 Cross-tabulation

People who use drugs are dumb or stupid.		Post-test			Total
		Strongly agree	Agree a little	Strongly disagree	
Pre-test	Strongly agree	18	1	1	20
	Agree a little	6	0	0	6
	Disagree a little	0	1	0	1
Total		24	2	1	27

Table A4.35: Question 35 Cross-tabulation

As an adult, how many alcoholic beverages do you feel you could have and still drive?		Post-test			Total
		0	1 or 2	3 or 4	
Pre-test	0	14	1	1	16
	1 or 2	2	7	0	9
	3 or 4	0	1	0	1
	5 or more	0	1	0	1
Total		16	10	1	27

Table A4.36: Question 36 Cross-tabulation

Marijuana is an illegal drug, do you feel it is as dangerous as other illegal drugs?		Post-test		Total
		NO!	YES!	
Pre-test	NO!	1	4	5
	yes	0	2	2
	YES!	5	15	20
Total		6	21	27

Table A4.37: Question 37 Cross-tabulation

Drinking alcohol affects the way the brain works		Post-test			Total
		True	False	Not sure	
Pre-test	True	25	1	1	27
Total		25	1	1	27

Table A4.38: Question 38 Cross-tabulation

Smoking marijuana affects the way the brain works.		Post-test			Total
		True	False	Not sure	
Pre-test	True	24	1	1	26
	Not sure	1	0	0	1
Total		25	1	1	27

Table A4.39: Question 39 Cross-tabulation

Using tobacco products is not too dangerous because you can always quit later.		Post-test			Total
		True	False	Not sure	
Pre-test	True	0	3	0	3
	False	2	17	3	22
	Not sure	0	1	1	2
Total		2	21	4	27

Table A4.40: Question 40 Cross-tabulation

It is okay to mix alcohol with other drugs or medicine		Post-test		Total
		False	Not sure	
Pre-test	True	1	0	1
	False	23	0	23
	Not sure	1	1	2
Total		25	1	26