Data Analysis



Introduction

Data analysis acts as the "construction phase" of your evaluation. The process of data analysis includes deciding on the appropriate analysis to conduct for each question, preparing data for analysis, and summarizing results. For outcome data, the result of analysis should enable you to answer the question "What changed because of AmeriCorps services?"

This packet will describe the steps you need to analyze simple instruments you use. Each step includes explanations and examples. On pages 21 and 22, you will find a practice worksheet and a blank sample survey for you to practice analysis skills using the sample surveys found on pages 23 to 32. In addition, there is a glossary of terms on page 33.

Steps to Data Analysis

- 1. Start with a Plan
- 2. Collect and Clean Your Data
- 3. Determine a Coding System
- 4. Tabulate Your Data
- 5. Transfer Your Information
- 6. Check Your Plan

Step 1

Starting with a Plan

Before you begin your data analysis, plan how you will analyze your data. First, consider the groups about which you want to report data. Refer to your desired result or standard to choose your unit of analysis to be a collection of individuals, groups, or activity locations (e.g., park users, school district principals, blocks within a neighborhood). This will help you select surveys to include in the analysis and to identify appropriate types of analyses. Then, choose a type of analysis for each question: frequency, percent distribution, mean, change in score from pre-test to a post-test, or content analysis. Next to each question on your instrument, list the type of analysis you are going to conduct.

While you examine your instrument, think about the following questions:	Analysis
Do you want to report the number of people who answered each question?	A Count
Do you want to report how many people answered "a," "b," or "c"?	A Frequency
Do you want to report what percentage of people answered "a," "b," or "c"?	A Percent Distribution
Do you want to report an average score?	A Mean
Do you want to report a change in score from a pretest to a post-test?	Change in Scores
Do you have open-ended questions?	Content Analysis

A complete analysis plan of a sample survey might look like page 4.

Project Survey

Please complete the following and return it to the school office by 3:00 p.m. Friday.

		On	oic air appi	opriate re	эронэс
Please rate the following regarding the success of the project you participated in:	Poor				Excellent
1. Organization of the project (Mean)	1	2	3	4	5
2. Student participation (Mean)	1	2	3	4	5
3. Benefit to the community (Mean)	1	2	3	4	5
4. Briefly describe the service that was co	mpleted	:			
-	-				
(Content Analysis)					
5. For how long did you participate in this	activity	?ho	urs		
(Mean)					
6. How did you hear about this project? (Check al	l that ap	ply.)		
(Frequency and	l Percer	itages)			
		J	5	Spoke wit	th the
Newspaper Someone told me	Saw it ir	n person	te	am mem	bers
7. I feel my knowledge of community service after participating in this activity is					
(Check only one):					
(Frequency and Percentages) Better than Worse than The same as it was					
Better than Worse than		rne sa	me as it v	was	

Step 2

Collecting and Cleaning Your Data

Keep all of the forms you received for each survey, test, or interview in one place. At this point, you may wish to remove forms that are substantially incomplete or do not make any sense. Record the number of forms you remove and the reasons why they were removed. You may want to include this in your report. Assign identification numbers (ID) to each form to help keep track of which forms you have processed.

Qualitative Data

The purpose of doing qualitative data analysis is to reduce the amount of text and organize responses to identify trends in your data. One method of doing qualitative data analysis is *content analysis*. Content analysis creates a structure to organize open-ended information.

a) Identify the Unit of Analysis

Begin by identifying the unit of analysis. The unit of analysis is the smallest block of text examined in the content analysis determined by the person conducting the analysis. Potential units of analysis include respondent, response, paragraph, sentence, idea, or word.

b) Arrange the Raw Data

After you determine your unit of analysis, arrange the raw data by unit of analysis. (For example, if your unit of analysis is "response," then put all the responses to question one together, all the responses to question two together, etc., keeping each person's responses separate.) If possible, type the data into a word processing program.

Sample Open-ended Responses for Content Analysis

Respondent 1

How would you apply the skills and knowledge you learned today to future activities? *Getting along and working with others.*

What did you like about this project?

The whole experience, especially group work to beautify our school.

Respondent 2

How would you apply the skills and knowledge you learned today to future activities?

Assign homework to my students in the area of environmental sciences where they contribute to their community.

What did you like about this project?

The involvement of all students in a common activity.

Respondent 3

How would you apply the skills and knowledge you learned today to future activities?

Small groups work well with adult or older youth. We will be working with high school students in Giraffe Project. In groups, each child has an opportunity to play an active role.

What did you like about this project?

The obvious planning of each detail First the lesson given on planting bulbs was interesting and on a level that primary students could understand Second the students had planned the planting session very well Each adult working with 3-4 students. Great hands on project for students.

Respondent 4

How would you apply the skills and knowledge you learned today to future activities?

I would like to use this type of activity with reading assignments, have my students read to elders or younger children as a means of practicing their reading.

What did you like about this project?

The excitement of the students in an assignment.

Respondent 5

How would you apply the skills and knowledge you learned today to future activities?

I would like to try an activity that involves parents, where both the student and parent participate in a joint community service activity.

What did you like about this project?

Students seeing how they can apply what they learn in class in every day life.

After reviewing the sample responses above, an identified Unit of Analysis might look like the following:

An appropriate unit of analysis would be "response." This was chosen because the first question and the second question are not related.

Arranging data by the Unit of Analysis would look like the following:

What did you like about this project?

- The whole experience, especially group work to beautify our school.
- The obvious planning of each detail. First, the lesson given on planting bulbs was interesting and on a level that primary students could understand. Second, the students had planned the planting session very well. Each adult working with 3-4 students. Great hands on project for students.
- The involvement of all students in a common activity.
- *The excitement of the students in an assignment.*
- Students seeing how they can apply what they learn in class in everyday life.

It's Your Turn

Using the Sample Surveys (pages 23 to 32), assign each survey an ID number to help you identify which surveys you have processed.

Step 3

Determining a Coding System

Quantitative Data

a) Code the Question

If you are going to use a spreadsheet or a database, you will need to convert "check box" type answers to a numbered code. This will speed up data entry, since you will only type the number corresponding to the answer into the computer, rather than the whole word. On a blank copy of your instrument, assign a number, or code, for each potential answer to each question.

<u>A</u>	<u>coded question might look like one of the following:</u>
1.	Were you aware of AmeriCorps programs in your neighborhood? (1) Yes (2) No <i>Blank = Blank</i>
2.	How would you rate the quality of service provided? (4) Great (3) Good (2) So-so (1) Awful Blank = Blank
3.	Please rate the service on a scale of 1-10, where 10 is excellent and 1 is poor. $# = Number Blank = Blank$
4.	How much time did you spend with the tutor? (4) 30 min. or more (3) 20-29 min. (2) 10-19 min. (1) 0-9 min. Blank = Blank
5.	What were the outcomes of the community service efforts in your area? (check all that apply) () increased pride () decrease in vandalism () increased safety () other Checked = 1 Not Checked = 0
Co	Approximately what proportion of all aluminum cans in the United States is recycled? oded to determine only the number of right answers: (0) 20% (1) 40% (0) 60% (0) 80% oded to determine which answers people are choosing: (2) 20% (1) 40% (3) 60% (4) 80%
	lt's Your Turn

Using the blank sample survey (page 22), code the responses for question 6 and question 7.

b) Organize your Responses

By Hand: Write the name and number of each question from your instrument on a blank piece of paper. Create a column for each potential answer. Go through your stack of instruments, question by question, and tally how many people gave each type of response.

By Computer: After you have assigned numbers to potential responses, input the responses into the computer. Set up your spreadsheet allowing each column to represent one survey item and each row to represent one person's form. Start each row with the survey's ID number. You can even set up a data entry screen that looks like your printed form! (Be aware that using a "0" for a blank answer may cause your calculations to be inaccurate. Some programs, such as Excel, will read the "0" as a number and include it when it calculates an average. However, Excel does ignore non-numeric responses. For a review of various software, see page 9.)

A tally by hand would look like the following:

Question 1

Were you aware of AmeriCorps programs in your neighborhood? Yes ____ No ____

Tally

Yes	No	Blank
11111	П	I

A data entry screen for the coded question might look like the following:

Survey ID	Question
	awareness
001	1
002	<blank></blank>
003	2
004	1
005	1
006	1
007	1
008	2

Question 1

Were you aware of AmeriCorps programs in your neighborhood? Yes = 1 No = 2 blank = <blank>

Software for Handling Your Quantitative Data

ata collection is an integral part of an evaluation effort. Depending on your evaluation methodology, data can come in a variety of forms. Survey data are typically numerical or "quantitative," whereas focus group data are always descriptive or "qualitative." The following discusses software for handling your quantitative data.

Data management and analysis software perform four basic functions: data entry, data management, data analysis, and reporting. Data entry involves inputting the information from surveys or interviews into a computer application. Data management involves manipulating the data: sorting, indexing, creating subsets, grouping, creating new variables from existing ones, etc. Data analysis involves converting the data into intelligible information such as averages, frequency tables, sums, and other statistics. Finally, data reporting involves formatting the digested data into tables, charts, and graphs that can be used in reports.

Various types of software perform the four functions described above, but each has its strength in a specific area. Some software packages are better suited for handling quantitative data, whereas others work best for qualitative data. Below is a summary of the main classes of quantitative software that can assist you in managing your evaluation data.

Category ratings are:
Good ***
OK **
Poor*

Databases

Ease of use **

Data entry **

Data management **

Data analysis *

Data reporting, text **

Data reporting, graph *

Databases are excellent for entering and managing data. (They can handle tons of data.) They can also generate polished tabular (text) reports. Their data analysis capability is limited to counts, means, and sums, which may be enough for most purposes. Databases are a bit more complex to use than spreadsheets, but usability has been improving in newer versions. Databases come in two types: "industrial strength" (Oracle, Informix, Dbase, FoxPro) and "user-friendly" (Access, Approach, Paradox, Filemaker Pro). It is better to go

with "user-friendly" databases, which still provide plenty of data management power.

Spreadsheets

Spreadsheets are easy to use. They work well for data entry and data analysis if your data set is not too large. They have limited data management capability (sorting, etc.), but they have excellent graphing and charting features. Charts created with spreadsheets can be exported to word processors and included in reports. Popular spreadsheets include Lotus 123, Excel, and Quattro Pro.

Ease of use ***

Data entry **

Data management *

Data analysis **

Data reporting, text *

Data reporting, graph ***

Statistical

Ease of use **

Data entry *

Data management **

Data analysis **

Data reporting, text **

Data reporting, graph **

These include packages like SAS and SPSS that are excellent for basic as well as high level statistical analysis. These packages excel in data management, but data entry can be a bit cumbersome. One strategy is to use a database for data entry and then export the data to a statistical program for data analysis. New versions of statistical packages include interactive user interfaces that can eliminate the need for programming, a huge

plus for usability. On the negative side, these packages can be expensive, although there are inexpensive packages in the market with limited features.

Qualitative Data

To begin to organize data for content analysis, you must determine the categories you want to use. Read your organized responses. Decide whether you want to use any *pre-determined* categories or if you want to use *emergent* categories. Identify your categories. It may help to write a brief description of what each category should contain. Remember to include an "other" category.

- **a) Pre-determined categories** are selected before the data comes back. They may be selected based on their importance to your program, or because they are included in the question generating the responses. For example, responses to "Explain why you did or did not enjoy this event," could be placed in "Enjoyed" or "Did Not Enjoy" categories.
- **b) Emergent categories** are determined after several readings of the data. For example, if you ask students "What did you like about your tutor?" you may need to read the complete set of answers for this question several times before categories, such as "Consistency" or

Categories with descriptions might look like the following:

Level of quality: These responses refer to the overall quality of the service-learning experience, planning age appropriateness, etc.

The service experience: These responses refer to the practical application of the service-learning experience.

Interest/involvement: These responses refer to the engagement of students in the activity.

It's Your Turn

Using the Sample Surveys (pages 23 to 32), determine a coding system for the responses to question 4. Record your categories in the space provided on the practice worksheet (page 21) or on the blank sample survey (page 22).

Step 4

Tabulating Your Data

Conduct the type of analysis you chose for each item. Four common types of analysis used with quantitative data are: frequencies, percent distributions, means, and change from pre-tests to post-tests. Most computer programs for statistical data analysis have functions for tabulating automatically. Conduct a content analysis for qualitative data with open-ended items.

Quantitative Data

a) Calculating a Frequency

Frequencies tell how often that a particular answer was selected. Frequencies can be calculated for any level of data. To calculate a frequency, take one item that you have coded for data analysis. Tally by hand, or use a computer program to count how many times each answer was selected.

1. Take one question that you have coded for data analysis.

Example:

2. How would you rate the	(_4) Great (_3) Good (_2) So-so (_1)Awful
quality of the service	(_2) So-so (_1)Awful
provided?	Blank = 0

Raw Data

2. How would you rate the quality of the service provided?	ID Answer 001 (_x) Great (_)Good (_) So-so (_) Awful 002 (_) Great (_x)Good (_) So-so (_) Awful 003 (_x) Great (_)Good (_) So-so (_) Awful 004 (_x) Great (_)Good (_) So-so (_) Awful 005 (_) Great (_)Good (_x) So-so (_) Awful
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2. Tally by hand, or use a computer program to count how many times each answer was selected.

Example: The following examples use the coded question and raw data found on page 11.

By Hand

<u>Tally</u>	<u>Total</u>
Great ///	3
Good /	1
So-So /	1
Awful	0
Blank	0

By Computer

	Question 2
ID	1
001	4
002	3
003	4
004	4
005	2

Using the Sample Surveys (pages 23 to 32), the practice worksheet (page 21), and the coded responses you created on the blank sample survey (page 22), calculate the frequency for the responses to question 6.

b) Calculating A Percent Distribution

Percent distributions, or percentages, tell what proportion of respondents selected a particular answer. Since percentages reflect the number of times each answer would be selected out of 100 responses, they can be used to help put your data in perspective. These are particularly useful when you have a large number of responses.

To calculate Percent Distribution, calculate the Frequencies as described on page 11. Calculate the total number of responses (n). Then divide the Frequency for each question (F) by the total number of responses (n). Move the decimal point two places to the right and add a percentage sign (%). Your percentages should add up to 100 percent; however, if you round to two decimal places, they may add up to 99 or 101.

Example:

1. Calculate the Frequencies as described above.

2. Calculate the total number of Responses (see n in this example).

3. Divide the Frequency for each response (F) by the total Number of Responses (n).

Move the decimal point two places to the right and add a percentage sign (%).

Formula: %=F/n

Example:

Great:	65/115 = .56 = 56%
Good:	20/115 = .17 = 17%
So-so:	15/115 = .13 = 13%
Awful:	3/115 = .03 = 3%
Blank:	12/115 = .10 = 10%

·	
	Question 2
Frequencies:	2
Great (Code = 1)	65
Good (Code = 2)	20
So-So (Code = 3)	15
Awful (Code=4)	3
Blank (Code=0)	12
Number Responses (n)	115

Note: Percentages should add up to 100 percent; however, if you round to two decimal places, as above, they may add up to 99 or 101.

It's Your Turn

Using the Sample Surveys (pages 23 to 32), the practice worksheet (page 21), and the coded responses you created on the blank sample survey (page 22), calculate the percent distribution for the responses to question 7.

c) Calculating a Mean

The mean is the average response given. A mean can be used when you want to describe the group as a whole. To calculate a mean, add up all the responses you got for the question. Divide the total by the Number of responses (n).

1. Add up all the responses you got for the question.

Example:

3. Please rate the service on a scale of 1-10, where 10 is excellent and 1 is poor.

____= the number they write
Exclude "0" where 0=
Blank.

2. Divide the total by the Number of Responses.

Example:

Total =41 n=5 41/5= 8.5 The Mean, or Average rating, for this question = 8.5

ID	Question 3
001	10
002	10
003	8
004	8
005	5
Total =	41
Number of Responses	5

It's Your Turn

Using the Sample Surveys (pages 23 to 32) and the practice worksheet (page 21), or the blank sample survey (page 22), calculate the mean for the responses to question 1-3.

d) Analyzing Pre-Post Data

The way you write the "standard of success" in your objective will determine how you analyze your pre-post data. Consider the following examples for a tutoring program.

Example A: The letter grades of tutored students will increase by an average of ½grade per semester.

Example B: 80 percent of tutored students will increase their letter grades by 1/2 or more per semester.

Each statement requires different information to be collected and different data analysis. Example A requires that the "average" (mean) letter grade increase by ½grade or better when all students are grouped together. Example B requires that the percentage of students who increase their letter grades by ½grade or more be greater than 80 percent. Example B therefore requires an additional piece of information, individual gains, while the first does not. In order to compute individual gain scores, you need to match each student's pre and post measures. (Note: It is always better to compute individual gain scores, when possible. However, an average increase can be computed in the absence of individual gain scores.)

Example A: "The letter grades of tutored students will increase by an average of 1/2 grade per semester."

The difference between the first semester average and the second semester average is .44 letter grades; therefore, the objective was not quite attained. Please note that the grades here are not paired by individual student. However, the group of students taking the both the pre/post tests should be the same. If you are unsure that the group of students taking the pre/post tests is the same, you may want to get some help from a statistician to analyze your data.

First Se	mester	Second S	<u>Semester</u>
D	=1	C	=2
D+	=1.5	D-	=.7
C	=2	В	=3
В	=3	B+	=3.5
C+	=2.5	В	=3
Total	=10	Total	=12.2
n	=5	n	=5
Mean	=2	Mean	=2.44

Example B: "80 percent of tutored students will increase their letter grade by at least ½ grade per semester."

The preferred method of looking at pre-post data is to match each student's pre and post test scores. For this example, 4 out of 5 students gained ½ letter grades. The percentage of students gaining ½ letter grade (%=F/n) is 80 percent; therefore, the objective was attained.

	First Semester		Second Semester		Difference Pre-Post	.5 letter grade gain?
	Semester		Semester	_	116-1031	
Ann	D	=1	C	=2	+1	Yes
Bob	D+	=1.5	D-	=.7	8	No
Chris	C	=2	В	=3	+1	Yes
Dot	В	=3	B+	=3.5	+.5	Yes
Ed	C+	=2.5	В	=3	+.5	Yes

Qualitative Data

a) Classify the Data

Place each data unit (e.g., responses to a question, paragraph, sentence, or word) in one of the categories you identified. Each unit should be in at least one category. It may be useful to give a friend or co-worker your list of categories and your organized data and see if they classify the answers in the same way you did. They probably will not match completely, but if your analysis looks completely different, you may want to describe your categories better, or choose new categories.

Units classified into categories might look like the following:

Level of quality: These responses (from question four of the sample survey) refer to the overall quality of the service-learning experience, planning age appropriateness, etc.

The obvious planning of each detail was good. First, the lesson given on planting bulbs was interesting and on a level that primary students could understand. Second, the students had planned the planting session very well. Each adult worked with 3-4 students. Great hands on project for students.

The service experience: These responses refer to the practical application of the service-learning experience.

The whole experience, especially group work to beautify our school. Students seeing how they can apply what they learn in class in everyday life.

Interest/involvement: These responses refer to the engagement of students in the activity.

The involvement of all students in a common activity. The excitement of the students in an assignment.

Other: None

It's Your Turn

Using the Sample Surveys (pages 23 to 32), classify the responses to question 4 according to the categories you recorded on the practice worksheet (page 21) or on the blank sample survey (page 22).

b) Reduce the Volume of Text (But Don't Lose the Information)

There are several ways to reduce the amount of text within each category. You can use a count, a composite, or a short paragraph.

Count the Responses

Count the number of responses placed in each category, then report the number of responses along with the category description you have created.

Create a Composite Response

Create "composite" responses (or use a quote) that reflect the content of all the responses in each category. Use these composite responses along with the count of all responses in each category to report your data.

Write a Short Paragraph

For more complex or extensive data, you may want to write a short paragraph describing the contents of each category. These can be reported with, or without, a count of the individual responses.

Reduced responses to the question "What did you like best about this project?" might look like the following:

One person mentioned the level of quality of the project, including the overall quality of the service-learning experience, planning age appropriateness, etc.

Two people mentioned the practical work experience applicability of the project.

Two people mentioned interest/involvement of students in the activity.

It's Your Turn

Using the Sample Surveys (pages 23 to 32), count the responses to question 4 you classified into your categories. Record your findings in the space provided on the practice worksheet (page 21) or on the blank sample survey (page 22).

Step 5

Transferring Your Information

Transfer the information to a copy of the original instrument. For quantitative data, record the frequencies or percentages for each response. For qualitative data, present the categories you developed, summary of comments and the number of responses by category for each question.

📐 It's Your Turn

If you used the practice worksheet (page 21), transfer your analysis findings to your blank Sample Survey (page 22).

Project Survey

Please complete the following and return it to the school office by 3:00 p.m. Friday.

		,		Cir	cle an app	ropriate r	esponse
Please rate the following regarding the success of the project you participated in:			Poor				Excellent
1.	Organization of the pro (3+3+4+4+5+5+5+5+5+5)/10=	•	1	2	3	4	5
2.	Student participation (3+3+4+4+5+5+5+5+5+5+5)/10=	=44/10 Mean=4.4	1	2	3	4	5
3.	Benefit to the communi (4+4+5+5+5+5+5+5+5+5+5)/10=	•	1	2	3	4	5
4.	4. Briefly describe the service that was completed:						
Pro	Property Cleanup Vacant Lot Cleanup Sidewalk cleanup						
5. For how long did you participate in this activity? <u>5.7</u> hours							
	(3+6+8+hlank	(+blank+3+6+8+blank	(+hlank)/6=	:34/6 Mean	=5.7 hours		
6.	How did you hear abou					'	
	Newspaper Someone told me Saw it in person team member 4 or 40% 3 or 30% 9 or 90% 2 or 20%						
7.	I feel my knowledge of	community serv	ice after	participa	ating in t	his activ	ity is
	(Check only one): Better than W 6 or 60%	orse than	The same as it was 4 or 40%				

Step 6

Checking Your Plan

Go back and check the data analysis plan you created in Step 1. Did you conduct the analysis the way that you planned? Compare individual answers from pre and post-tests, or compare results from your clients and with those from a control group.

Practice Worksheet

Analysis Workspace
Quantitative Data
Frequency (Question 7)
Percent Distribution (question 6)
Mean (Question 1)
Mean (Question 2)
Mean (Question 3)
Qualitative Data (Content Analysis)
Category 1: Description:
Responses and Count
Category 2: Description:
Responses and Count
Category 3: Description:
Responses and Count
Category 4: Description:
Responses and Count

Sample Survey (BLANK)

Project Survey

Please complete the following and return it to the school office by 3:00 p.m. Friday.

Circle an appropriate response Please rate the following regarding the success Poor Excellent of the project you participated in: 1. Organization of the project 1 2 3 4 5 2. Student participation 1 2 3 4 5 3. Benefit to the community 1 2 3 4 5 4. Briefly describe the service that was completed: 5. For how long did you participate in this activity? ____ hours 6. How did you hear about this project? (Check all that apply.) Spoke with the Someone told me Newspaper Saw it in person team members 7. I feel my knowledge of community service after participating in this activity is (Check only one): Worse than The same as it was Better than

Project Survey

Please complete the following and return it to the school office by 3:00 p.m. Friday.

Circle an appropriate response Please rate the following regarding the success Poor Excellent of the project you participated in: 2 3 1. Organization of the project 1 4 5 1 2 2. Student participation 3 4 1 2 3 5 3. Benefit to the community 4 4. Briefly describe the service that was completed: Cleaned up dead grass and weeds from the property of an older person. 5. For how long did you participate in this activity? 3 hours 6. How did you hear about this project? (Check all that apply.) Spoke with the Saw it in person Newspaper Someone told me team members 7. I feel my knowledge of community service after participating in this activity is (Check only one): Better than Worse than The same as it was

Project Survey

Please complete the following and return it to the school office by 3:00 p.m. Friday.

,		Circ	cle an app	ropriate re	sponse	
Please rate the following regarding the success of the project you participated in:	Poor				Excellent	
1. Organization of the project	1	2	3	4	5	
2. Student participation	1	2	3	4	5	
3. Benefit to the community	1	2	3	4	5	
4. Briefly describe the service that was co	mpleted	•				
Garbage removed from vacant lots in the neighborhood.						
5. For how long did you participate in this activity? 6 hours						
6. How did you hear about this project? (Check al	I that ap	• •	'n aka witi	a tha	
Newspaper Someone told me	Saw it ir	n person		Spoke with am mem		
7. I feel my knowledge of community serv (Check only one);	ice after	participa	ting in t	his activ	ity is	
Better than Worse than	-	The same	e as it wa	S		

Project Survey

Please complete the following and return it to the school office by 3:00 p.m. Friday.

Circle an appropriate response Please rate the following regarding the success Poor Excellent of the project you participated in: 3 1 2 4 1. Organization of the project 5 5 2. Student participation 1 2 3 4 5 3. Benefit to the community 1 2 3 4 4. Briefly describe the service that was completed: Clean up lawn waste from group home for handicapped 5. For how long did you participate in this activity? 8 hours 6. How did you hear about this project? (Check all that apply.) Spoke with the Someone told me Saw it in person team members Newspaper 7. I feel my knowledge of community service after participating in this activity is (Check only one); Better than Worse than The same as it was

Project Survey

Please complete the following and return it to the school office by 3:00 p.m. Friday.

Circle an appropriate response Please rate the following regarding the success Poor Excellent of the project you participated in: 1. Organization of the project 1 2 3 4 2 2. Student participation 1 4 5 3. Benefit to the community 1 2 3 4 (5) 4. Briefly describe the service that was completed: Clean up of sidewalks and lots 5. For how long did you participate in this activity? ____ hours 6. How did you hear about this project? (Check all that apply.) Spoke with the Newspaper Someone told me Saw it in person team members 7. I feel my knowledge of community service after participating in this activity is (Check only one); Better than Worse than The same as it was

Project Survey

Please complete the following and return it to the school office by 3:00 p.m. Friday.

Circle an appropriate response

		CII	ле ан арр	горгіаце ге	sponse	
Please rate the following regarding the success of the project you participated in:	Poor				Excellent	
1. Organization of the project	1	2	3	4	5	
2. Student participation	1	2	3	4	5	
3. Benefit to the community	1	2	3	4	5	
Removed yard waste from property of a mentally and physically disabled low-income person. 5. For how long did you participate in this activity? hours						
6. How did you hear about this project? (Check al	l that ap	• • •	'n aka witi	a th a	
Spoke with the Newspaper Someone told me Saw it in person team members						
7. I feel my knowledge of community serv (Check only one):	ice after	participa	ting in t	his activ	ity is	
Better than Worse than	T	he same	as it was			

Project Survey

Please complete the following and return it to the school office by 3:00 p.m. Friday.

		Circ	cle an appi	ropriate re	sponse
Please rate the following regarding the success of the project you participated in:	Poor				Excellent
1. Organization of the project	1	2	3	4	5
2. Student participation	1	2	3	4	5
3. Benefit to the community	1	2	3	4	5
4. Briefly describe the service that was co	mpleted	•			
Removed solid waste from property of a mentally and physically disabled low-income person.					
'					
5. For how long did you participate in this activity? 3 hours					
6. How did you hear about this project? (Check al	I that ap			
Newspaper Someone told me	Saw it in	n person		poke with am mem	
					5010
7. I feel my knowledge of community service (Check only one):	ice after	participa	iting in tl	his activi	ity is
Better than Worse than	TI	he same	as it was		

Project Survey

Please complete the following and return it to the school office by 3:00 p.m. Friday.

,		Circ	cle an app	ropriate re	sponse	
Please rate the following regarding the success of the project you participated in:	Poor				Excellent	
1. Organization of the project	1	2	3	4	5	
2. Student participation	1	2	3	4	5	
3. Benefit to the community	1	2	3	4	5	
4. Briefly describe the service that was co	mpleted	<u>:</u>				
Vegetation and moss removed from several sidewalks						
5. For how long did you participate in this activity? 6 hours						
6. How did you hear about this project? (Check al	I that ap	• •	halka with	a tha	
Newspaper Someone told me	Saw it ir	n person		Spoke with am mem		
7. I feel my knowledge of community serv (Check only one);	ice after	participa	ting in t	his activ	ity is	
Better than Worse than		The sam	e as it wa	as		

Project Survey

Please complete the following and return it to the school office by 3:00 p.m. Friday.

Circle an appropriate response Please rate the following regarding the success Poor Excellent of the project you participated in: 3 1 2 4 1. Organization of the project 5 5 2. Student participation 1 2 3 4 2 5 3. Benefit to the community 1 3 4 4. Briefly describe the service that was completed: Clean up of garbage and debris 5. For how long did you participate in this activity? 8 hours 6. How did you hear about this project? (Check all that apply.) Spoke with the Someone told me Saw it in person team members Newspaper 7. I feel my knowledge of community service after participating in this activity is (Check only one); Worse than The same as it was Better than

Project Survey

Please complete the following and return it to the school office by 3:00 p.m. Friday.

Circle an appropriate response Please rate the following regarding the success Poor Excellent of the project you participated in: 1 2 3 4 1. Organization of the project 2. Student participation 1 2 4 5 2 3 3. Benefit to the community 1 4 (5 4. Briefly describe the service that was completed: Clean up of yard and overgrown brush 5. For how long did you participate in this activity? ____ hours 6. How did you hear about this project? (Check all that apply.) Spoke with the Newspaper Someone told me Saw it in person team members 7. I feel my knowledge of community service after participating in this activity is (Check only one); Better than Worse than The same as it was

Project Survey

Please complete the following and return it to the school office by 3:00 p.m. Friday.

Circle an appropriate response Please rate the following regarding the success Poor Excellent of the project you participated in: 1. Organization of the project 1 2 3 4 5 2. Student participation 2 3 4 5 1 3. Benefit to the community 1 2 3 4 4. Briefly describe the service that was completed: Removed a large accumulation of solid waste from property of a mentally and physically disabled low-income person. 5. For how long did you participate in this activity? ____ hours 6. How did you hear about this project? (Check all that apply.) Spoke with the Saw it in person Newspaper Someone told me team members 7. I feel my knowledge of community service after participating in this activity is (Check only one): Better than Worse than The same as it was

Glossary of Evaluation Analysis Terms

Cleaning Data	The process of excluding from analysis forms or individual
	responses that is substantially incomplete, or does not make sense.
Coding Instruments	The process of converting responses to numbers for data entry.
Content analysis	A process used to organize open-ended, unstructured information. (qualitative data)
Data Analysis	The process of putting together qualitative and/or quantitative information to derive answers to questions.
Database	Computer software that can be used for data entry, analysis and retrieval. Data is entered line by line, where each line contains the information for one filled instrument.
Emergent categories	Categories in a content analysis determined after reading the raw data.
Frequency	The number of times a given response occurs.
Instrument	A device for recording, indicating, measuring, or collect information referred to measure your objective. (e.g., a survey, a checklist, interview protocol)
Mean	The average of numeric responses or scores. Obtained by dividing the total of all responses to an item by the number of responses obtained.
Measure	(Verb) The process of counting information. (Noun) The instrument used to quantify information.
Percent Distribution	The proportion of respondents selecting each response.
Pre/Post Tests	An instrument administered at two or more points in time, used to capture gains over that period of time.
Pre-determined categories	Categories in a content analysis determined before data is collected.
Qualitative Data	Data that comes from open ended questions, in the form of words. These may be written or recorded.
Quantitative Data	Data which are provided in the form of numbers, or can be converted to numeric form. This type of data usually comes from structured instruments where respondents are required to select a response or provide a numeric response. This may also include test scores.
Raw data	All of the data collected from the instruments before they are analyzed.
Response	The individual answer selected or given to a question.
Spreadsheet	Computer software that allows data arranged in a grid format. Allows for easy data entry and basic analysis.

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