

March 30, 2007

TO: Anne Leskinen, Dean PSME

FROM: Andrew LaManque, De Anza Research
Dianne Mak, Student Assistant

SUBJECT: EnableMath Survey, Winter 2007

A survey of EnableMath students was conducted during the last week of classes in Winter 2007. 262 students completed the survey online during lab time.

Important highlights include:

- 78% of students responded that this is their first math class using EnableMath.
- 34% (90 of 262) students selected that they needed to study more hours to get the grade they wanted than they actually studied.
- 88% of students agreed or strongly agreed that they “felt more engaged using EnableMath software.”
- 81% of students agreed or strongly agreed that EnableMath “helped them learn more math than without the software.”
- 82% of students agreed or strongly agreed that EnableMath helped to improve their grade. This result varied by the amount of time a student indicated they spent on homework: of the students that spent less than 5 hours on homework 83% (158 of 192) indicated EnableMath helped to improve their grade, compared with 79% (55 of 70) of the students that spent 5 hours or more on homework.
- 89% of students responded agree or strongly agree that they would take another math class with EnableMath. The rate was about 91% (173 of 191) for students who spent less than 5 hours on homework; 84% (59 of 70) for students who spent more than 5 hours on homework.
- 62% of students responded agree or strongly agree to the statement, “As a result of the CSI and the counselor presentation I am more likely to take advantage of college services.
- 39% of students agreed or strongly agreed that they did better in the class after learning the results of the CSI.
- 87% of students agreed or strongly agreed that they would recommend the EnableMath program to other students.

EnableMath End of Class Survey, Winter 2007, De Anza Research

09-May-07

	0 hrs/week outside class		1-4 hrs/week outside class		5-9 hrs/week outside class		10 plus hrs/week outside class		Total Responses	
	Num	Per	Num	Per	Num	Per	Num	Per	Num	Per
How many hours per week (on average) do you spend doing math outside of the of the regular class/lab time?	8	3%	184	70%	61	23%	9	3%	262	100%
How many hours per week (on average) doing math outside of class/lab do you think are necessary to get the grade you want?	5	2%	122	47%	109	42%	26	10%	262	100%

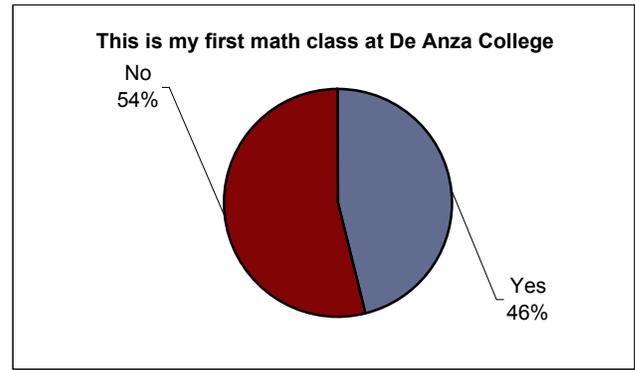
	Yes		No		Total Responses	
	Num	Per	Num	Per	Num	Per
This is my first math class at De Anza College	121	46%	141	54%	262	100%
This is my first math class using EnableMath	204	78%	57	22%	261	100%

	A		B		C		D		F		Total Responses	
	Num	Per	Num	Per								
What grade do you expect to receive in this class?	97	38%	107	41%	49	19%	4	2%	1	0%	258	100%

	Strongly Agree		Agree		Disagree		Strongly Disagree		Total Responses	
	Num	Per	Num	Per	Num	Per	Num	Per	Num	Per
I felt more engaged using EnableMath software	92	35%	138	53%	27	10%	4	2%	261	100%
EnableMath helped me learn more math than I would have without the software	92	35%	120	46%	44	17%	6	2%	262	100%
EnableMath helped to improve my grade	80	31%	133	51%	41	16%	8	3%	262	100%
I learned some facts from EnableMath that were not presented in the lecture	45	17%	122	47%	82	32%	11	4%	260	100%
I would take another math class with EnableMath	120	46%	112	43%	17	7%	12	5%	261	100%
I would recommend the EnableMath program to other students	123	47%	103	40%	22	8%	11	4%	259	100%
Completing the CSI was worth the time	34	13%	127	49%	76	29%	23	9%	260	100%
I learned something about myself while completing the CSI that will help me meet my goals at De Anza	28	11%	122	47%	84	32%	26	10%	260	100%
As I result of the CSI and the counselor presentation I am more likely to take advantage of college services	36	14%	126	48%	77	30%	21	8%	260	100%
I went to see a counselor with questions as a result of the CSI	18	7%	63	24%	131	51%	47	18%	259	100%
The feedback from the CSI helped me to do better in the class	18	7%	84	32%	111	43%	46	18%	259	100%

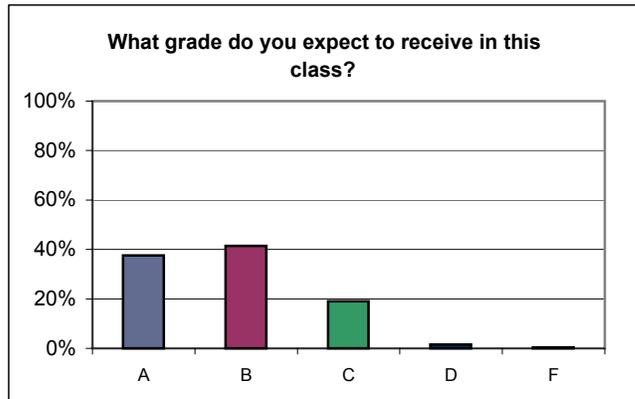
1. This is my first math class at De Anza College

Label	Frequency	Percent
Yes	121	46%
No	141	54%
Total Valid	262	100%
Total Missing	0	
Total	262	



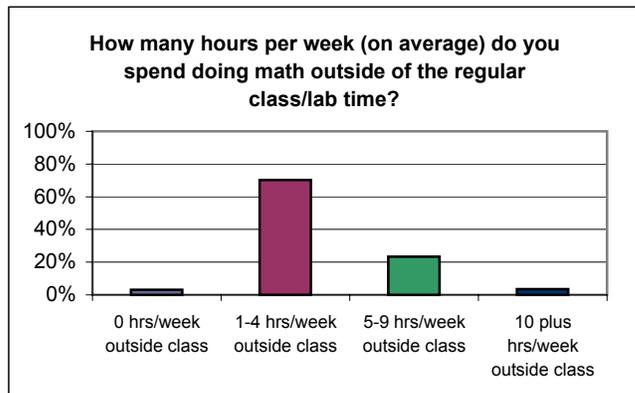
2. What grade do you expect to receive in this class?

Label	Frequency	Percent
A	97	38%
B	107	41%
C	49	19%
D	4	2%
F	1	0%
Total Valid	258	100%
Total Missing	0	
Total	262	



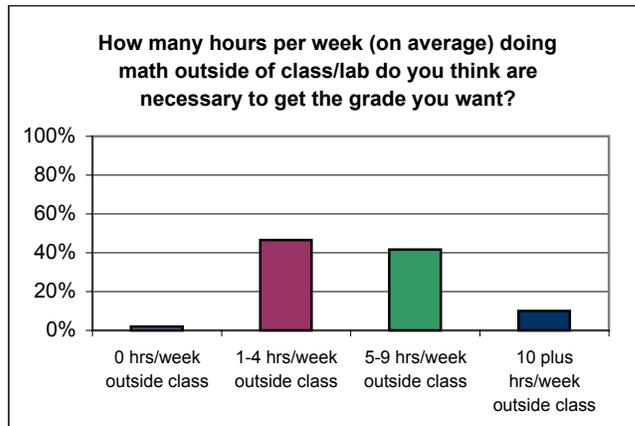
3. How many hours per week (on average) do you spend doing math outside of the regular class/lab time?

Label	Frequency	Percent
0 hrs/week outside class	8	3%
1-4 hrs/week outside class	184	70%
5-9 hrs/week outside class	61	23%
10 plus hrs/week outside class	9	3%
Total Valid	262	100%
Total Missing	0	
Total	262	



4. How many hours per week (on average) doing math outside of class/lab do you think are necessary to get the grade you want?

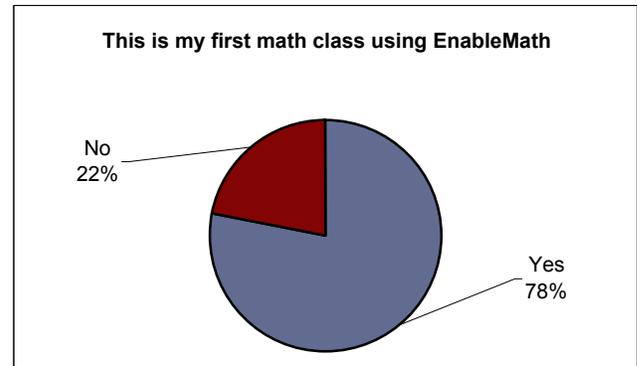
Label	Frequency	Percent
0 hrs/week outside class	5	2%
1-4 hrs/week outside class	122	47%
5-9 hrs/week outside class	109	42%
10 plus hrs/week outside class	26	10%
Total Valid	262	100%
Total Missing	0	
Total	262	



Please rate your experience with the EnableMath software this semester

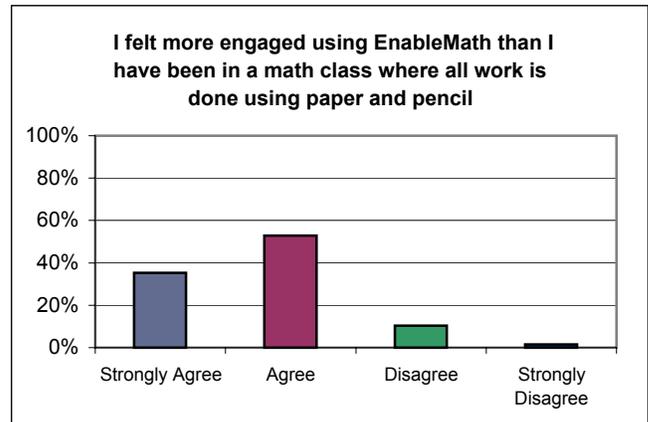
5. This is my first math class using EnableMath

Label	Frequency	Percent
Yes	204	78%
No	57	22%
Total Valid	261	100%
Total Missing	1	
Total	262	



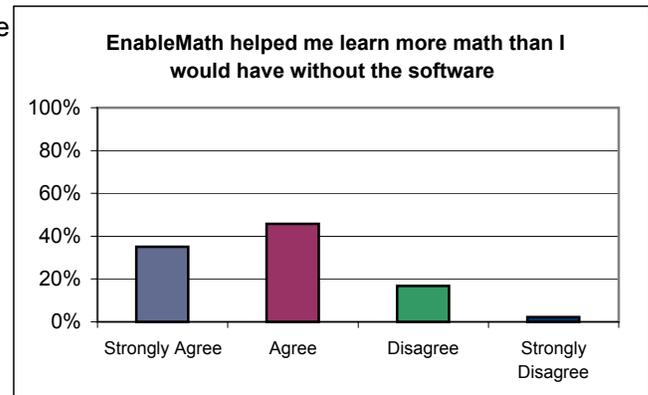
6. I felt more engaged using EnableMath software

Label	Frequency	Percent
Strongly Agree	92	35%
Agree	138	53%
Disagree	27	10%
Strongly Disagree	4	2%
Total Valid	261	100%
Total Missing	1	
Total	262	



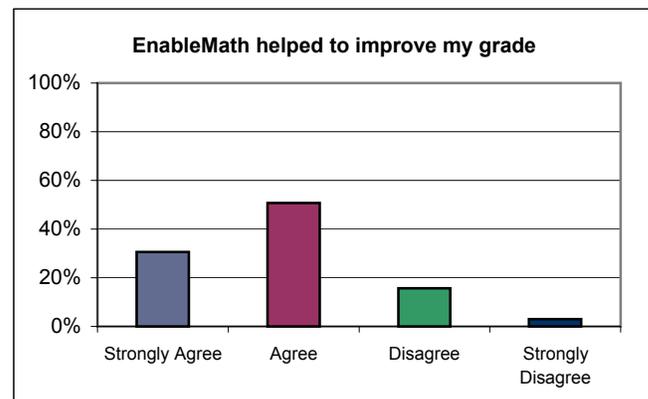
7. EnableMath helped me learn more math than I would have without the software

Label	Frequency	Percent
Strongly Agree	92	35%
Agree	120	46%
Disagree	44	17%
Strongly Disagree	6	2%
Total Valid	262	100%
Total Missing	0	
Total	262	



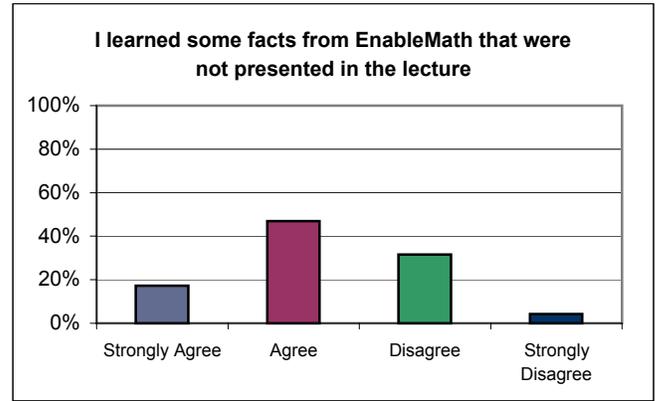
8. EnableMath helped to improve my grade

Label	Frequency	Percent
Strongly Agree	80	31%
Agree	133	51%
Disagree	41	16%
Strongly Disagree	8	3%
Total Valid	262	100%
Total Missing	0	
Total	262	



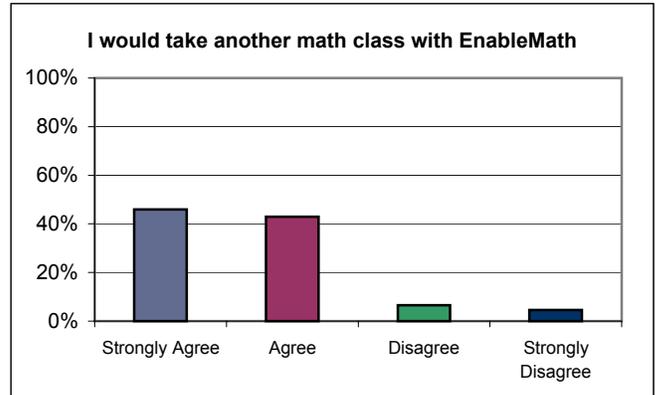
9. I learned some facts from EnableMath that were not presented in the lecture

Label	Frequency	Percent
Strongly Agree	45	17%
Agree	122	47%
Disagree	82	32%
Strongly Disagree	11	4%
Total Valid	260	100%
Total Missing	2	
Total	262	



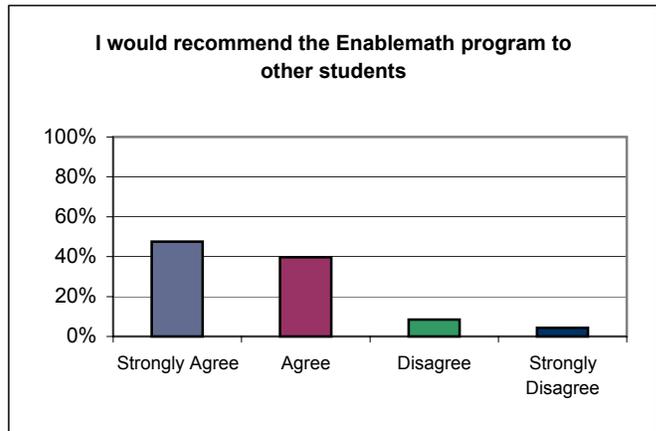
10. I would take another math class with EnableMath

Label	Frequency	Percent
Strongly Agree	120	46%
Agree	112	43%
Disagree	17	7%
Strongly Disagree	12	5%
Total Valid	261	100%
Total Missing	1	
Total	262	



11. I would recommend the Enablemath program to other students

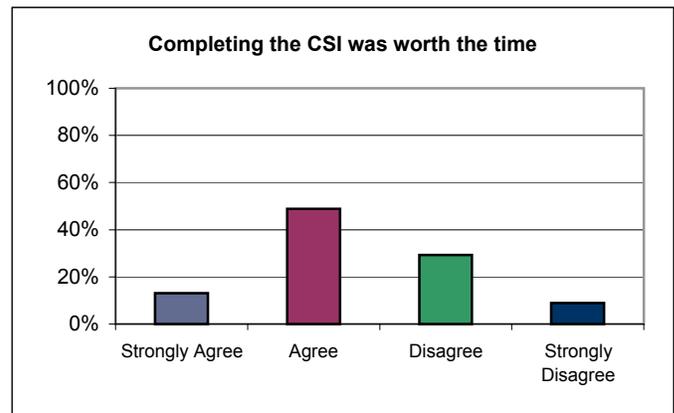
Label	Frequency	Percent
Strongly Agree	123	47%
Agree	103	40%
Disagree	22	8%
Strongly Disagree	11	4%
Total Valid	259	100%
Total Missing	3	
Total	262	



Please rate your experience with the Noel Levitz College Student Inventory Survey conducted at the beginning of the term

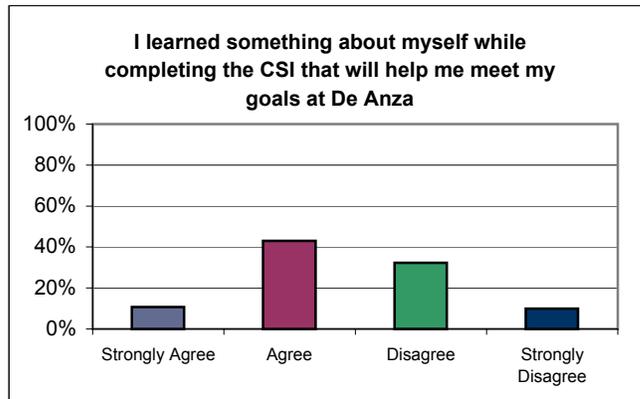
12. Completing the CSI was worth the time

Label	Frequency	Percent
Strongly Agree	34	13%
Agree	127	49%
Disagree	76	29%
Strongly Disagree	23	9%
Total Valid	260	100%
Total Missing	2	
Total	262	



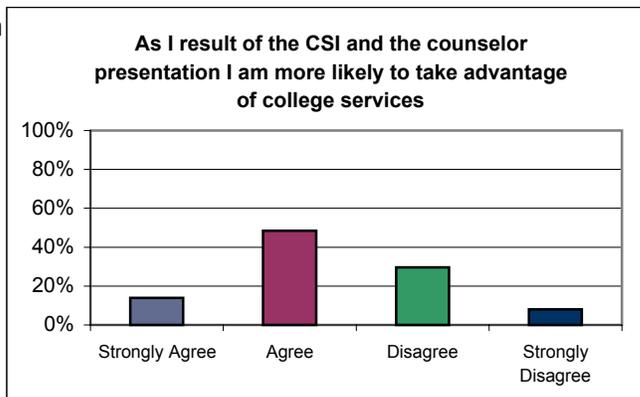
13. I learned something about myself while completing the CSI that will help me meet my goals at De Anza

Label	Frequency	Percent
Strongly Agree	28	11%
Agree	112	43%
Disagree	84	32%
Strongly Disagree	26	10%
Total Valid	260	100%
Total Missing	2	
Total	262	



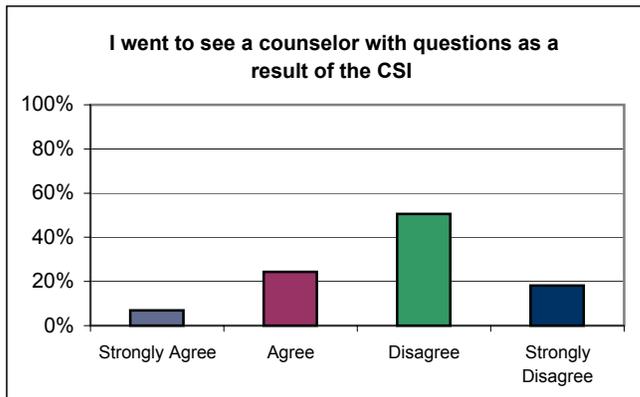
14. As a result of the CSI and the counselor presentation I am more likely to take advantage of college services

Label	Frequency	Percent
Strongly Agree	36	14%
Agree	126	48%
Disagree	77	30%
Strongly Disagree	21	8%
Total Valid	260	100%
Total Missing	2	
Total	262	



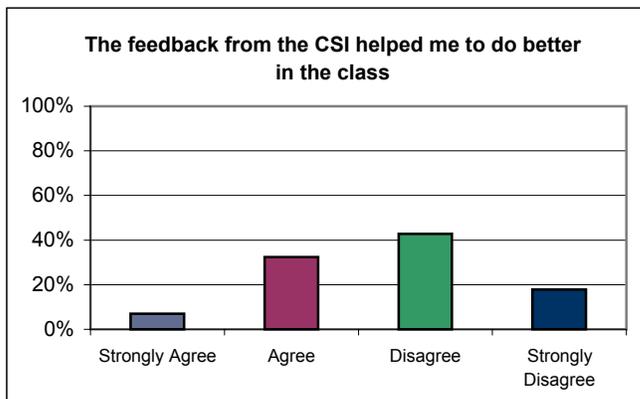
15. I went to see a counselor with questions as a result of the CSI

Label	Frequency	Percent
Strongly Agree	18	7%
Agree	63	24%
Disagree	131	51%
Strongly Disagree	47	18%
Total Valid	259	100%
Total Missing	3	
Total	262	



16. The feedback from the CSI helped me to do better in the class

Label	Frequency	Percent
Strongly Agree	18	7%
Agree	84	32%
Disagree	111	43%
Strongly Disagree	46	18%
Total Valid	259	100%
Total Missing	3	
Total	262	



The following section sorts the results by the students' response to the grade they expect to receive in the class

Expect a A in the class

	0 hrs/week outside class		1-4 hrs/week outside class		5-9 hrs/week outside class		10 plus hrs/week outside class		Total Responses	
	Num	Per	Num	Per	Num	Per	Num	Per	Num	Per
How many hours per week (on average) do you spend doing math outside of the of the regular class/lab time?	5	5%	68	70%	22	23%	2	2%	97	100%
How many hours per week (on average) doing math outside of class/lab do you think are necessary to get the grade you want?	3	3%	58	60%	31	32%	5	5%	97	100%

	Yes		No		Total Responses	
	Num	Per	Num	Per	Num	Per
This is my first math class at De Anza College	55	57%	42	43%	97	100%
This is my first math class using EnableMath	78	80%	19	20%	97	100%

	A		Total Responses	
	Num	Per	Num	Per
What grade do you expect to receive in this class?	97	100%	97	100%

	Strongly Agree		Agree		Disagree		Strongly Disagree		Total Responses	
	Num	Per	Num	Per	Num	Per	Num	Per	Num	Per
I felt more engaged using EnableMath software	32	33%	57	59%	7	7%			96	100%
EnableMath helped me learn more math than I would have without the software	30	31%	57	59%	10	10%			97	100%
EnableMath helped to improve my grade	31	32%	50	52%	15	15%	1	1%	97	100%
I learned some facts from EnableMath that were not presented in the lecture	11	11%	41	43%	38	40%	6	6%	96	100%
I would take another math class with EnableMath	46	48%	42	44%	4	4%	4	4%	96	100%
I would recommend the EnableMath program to other students	46	48%	40	42%	6	6%	4	4%	96	100%
Completing the CSI was worth the time	11	11%	50	52%	25	26%	10	10%	96	100%
I learned something about myself while completing the CSI that will help me meet my goals at De Anza	14	15%	39	41%	31	32%	12	13%	96	100%
As I result of the CSI and the counselor presentation I am more likely to take advantage of college services	15	16%	41	43%	29	30%	11	11%	96	100%
I went to see a counselor with questions as a result of the CSI	10	11%	20	21%	48	51%	17	18%	95	100%
The feedback from the CSI helped me to do better in the class	8	8%	25	26%	41	43%	21	22%	95	100%

Expect a B in the class

	1-4 hrs/week outside class		5-9 hrs/week outside class		10 plus hrs/week outside clas		Total Responses	
	Num	Per	Num	Per	Num	Per	Num	Per
How many hours per week (on average) do you spend doing math outside of the of the regular class/lab time?	77	72%	27	25%	3	3%	107	100%
How many hours per week (on average) doing math outside of class/lab do you think are necessary to get the grade you want?	47	44%	48	45%	12	11%	107	100%

	Yes		No		Total Responses	
	Num	Per	Num	Per	Num	Per
This is my first math class at De Anza College	55	51%	52	49%	107	100%
This is my first math class using EnableMath	92	87%	14	13%	106	100%

	B		Total Responses	
	Num	Per	Num	Per
What grade do you expect to receive in this class?	107	100%	107	100%

	Strongly Agree		Agree		Disagree		Strongly Disagree		Total Responses	
	Num	Per	Num	Per	Num	Per	Num	Per	Num	Per
I felt more engaged using EnableMath software	45	42%	50	47%	11	10%	1	1%	107	100%
EnableMath helped me learn more math than I would have without the software	44	41%	40	37%	22	21%	1	1%	107	100%
EnableMath helped to improve my grade	38	36%	51	48%	16	15%	2	2%	107	100%
I learned some facts from EnableMath that were not presented in the lecture	22	21%	52	49%	32	30%	1	1%	107	100%
I would take another math class with EnableMath	52	49%	44	41%	6	6%	5	5%	107	100%
I would recommend the EnableMath program to other students	53	50%	42	40%	7	7%	4	4%	106	100%
Completing the CSI was worth the time	16	15%	55	52%	27	25%	8	8%	106	100%
I learned something about myself while completing the CSI that will help me meet my goals at De Anza	11	10%	56	53%	29	27%	10	9%	106	100%
As I result of the CSI and the counselor presentation I am more likely to take advantage of college services	18	17%	54	51%	28	26%	6	6%	106	100%
I went to see a counselor with questions as a result of the CSI	6	6%	33	31%	48	45%	19	18%	106	100%
The feedback from the CSI helped me to do better in the class	9	8%	43	41%	39	37%	15	14%	106	100%

Expect a C or less in the class

	0 hrs/week outside class		1-4 hrs/week outside class		5-9 hrs/week outside class		10 plus hrs/week outside clas		Total Responses	
	Num	Per	Num	Per	Num	Per	Num	Per	Num	Per
How many hours per week (on average) do you spend doing math outside of the of the regular class/lab time?	3	6%	36	67%	11	20%	4	7%	54	100%

How many hours per week (on average) doing math outside of class/lab do you think are necessary to get the grade you want?	2	4%	16	30%	28	52%	8	15%	54	100%
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	Yes		No		Total Responses	
	Num	Per	Num	Per	Num	Per
This is my first math class at De Anza College	11	20%	43	80%	54	100%
This is my first math class using EnableMath	33	61%	21	39%	54	100%

	C		D		F		Total Responses	
	Num	Per	Num	Per	Num	Per	Num	Per
What grade do you expect to receive in this class?	49	91%	4	7%	1	2%	54	100%

	Strongly Agree		Agree		Disagree		Strongly Disagree		Total Responses	
	Num	Per	Num	Per	Num	Per	Num	Per	Num	Per
I felt more engaged using EnableMath software	13	24%	30	56%	9	17%	2	4%	54	100%
EnableMath helped me learn more math than I would have without the software	16	30%	22	41%	12	22%	4	7%	54	100%
EnableMath helped to improve my grade	8	15%	31	57%	10	19%	5	9%	54	100%
I learned some facts from EnableMath that were not presented in the lecture	11	21%	28	53%	10	19%	4	8%	53	100%
I would take another math class with EnableMath	20	37%	24	44%	7	13%	3	6%	54	100%
I would recommend the EnableMath program to other students	22	42%	19	36%	9	17%	3	6%	53	100%
Completing the CSI was worth the time	5	9%	21	39%	23	43%	5	9%	54	100%
I learned something about myself while completing the CSI that will help me meet my goals at De Anza	3	6%	24	44%	23	43%	4	7%	54	100%
As I result of the CSI and the counselor presentation I am more likely to take advantage of college services	2	4%	29	54%	19	35%	4	7%	54	100%
I went to see a counselor with questions as a result of the CSI	2	4%	8	15%	33	61%	11	20%	54	100%
The feedback from the CSI helped me to do better in the class			15	28%	29	54%	10	19%	54	100%

No Response

	1-4 hrs/week outside class		5-9 hrs/week outside class		10 plus hrs/week outside clas		Total Responses	
	Num	Per	Num	Per	Num	Per	Num	Per
How many hours per week (on average) do you spend doing math outside of the of the regular class/lab time?	3	75%	1	25%			4	100%
How many hours per week (on average) doing math outside of class/lab do you think are necessary to get the grade you want?	1	25%	2	50%	1	25%	4	100%

	Yes		No		Total Responses	
	Num	Per	Num	Per	Num	Per
This is my first math class at De Anza College			4	100%	4	100%
This is my first math class using EnableMath	1	25%	3	75%	4	100%

	Num	Per							Total Responses	
			Strongly Agree	Agree	Disagree	Strongly Disagree	Num	Per	Num	Per
I felt more engaged using EnableMath software	2	50%	1	25%		1	25%	4	100%	
EnableMath helped me learn more math than I would have without the software	2	50%	1	25%		1	25%	4	100%	
EnableMath helped to improve my grade	3	75%	1	25%				4	100%	
I learned some facts from EnableMath that were not presented in the lecture	1	25%	1	25%	2	50%		4	100%	
I would take another math class with EnableMath	2	50%	2	50%				4	100%	
I would recommend the EnableMath program to other students	2	50%	2	50%				4	100%	
Completing the CSI was worth the time	2	50%	1	25%	1	25%		4	100%	
I learned something about myself while completing the CSI that will help me meet my goals at De Anza			3	75%	1	25%		4	100%	
As I result of the CSI and the counselor presentation I am more likely to take advantage of college services	1	25%	2	50%	1	25%		4	100%	
I went to see a counselor with questions as a result of the CSI			2	50%	2	50%		4	100%	
The feedback from the CSI helped me to do better in the class	1	25%	1	25%	2	50%		4	100%	

The following section sorts the results by the students' response to the number of hours spent outside the class on homework

Less than 5 hrs homework

	0 hrs/week outside class		1-4 hrs/week outside class		5-9 hrs/week outside class		10 plus hrs/week outside class		Total Responses	
	Num	Per	Num	Per	Num	Per	Num	Per	Num	Per
How many hours per week (on average) do you spend doing math outside of the of the regular class/lab time?	8	4%	184	96%					192	100%

How many hours per week (on average) doing math outside of class/lab do you think are necessary to get the grade you want?	5	3%	118	61%	66	34%	3	2%	192	100%
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	Yes		No		Total Responses	
	Num	Per	Num	Per	Num	Per
This is my first math class at De Anza College	98	51%	94	49%	192	100%
This is my first math class using EnableMath	156	82%	35	18%	191	100%

	A		B		C		D		F		Total Responses	
	Num	Per	Num	Per								
What grade do you expect to receive in this class?	73	39%	77	41%	36	19%	2	1%	1	1%	189	100%

	Strongly Agree		Agree		Disagree		Strongly Disagree		Total Responses	
	Num	Per	Num	Per	Num	Per	Num	Per	Num	Per
I felt more engaged using EnableMath software	64	34%	110	58%	16	8%	1	1%	191	100%
EnableMath helped me learn more math than I would have without the software	64	33%	92	48%	32	17%	4	2%	192	100%
EnableMath helped to improve my grade	55	29%	103	54%	31	16%	3	2%	192	100%
I learned some facts from EnableMath that were not presented in the lecture	32	17%	92	48%	57	30%	9	5%	190	100%
I would take another math class with EnableMath	87	46%	86	45%	12	6%	6	3%	191	100%
I would recommend the EnableMath program to other students	93	49%	76	40%	15	8%	7	4%	191	100%
Completing the CSI was worth the time	22	12%	98	52%	53	28%	17	9%	190	100%
I learned something about myself while completing the CSI that will help me meet my goals at De Anza	22	12%	83	44%	65	34%	20	11%	190	100%
As I result of the CSI and the counselor presentation I am more likely to take advantage of college services	27	14%	86	45%	60	32%	17	9%	190	100%
I went to see a counselor with questions as a result of the CSI	13	7%	45	24%	94	50%	37	20%	189	100%
The feedback from the CSI helped me to do better in the class	11	6%	56	30%	85	45%	37	20%	189	100%

5 + hrs homework

	1-4 hrs/week outside class		5-9 hrs/week outside class		10 plus hrs/week outside clas		Total Responses					
	Num	Per	Num	Per	Num	Per	Num	Per				
How many hours per week (on average) do you spend doing math outside of the of the regular class/lab time?			61	87%	9	13%	70	100%				
How many hours per week (on average) doing math outside of class/lab do you think are necessary to get the grade you want?	4	6%	43	61%	23	33%	70	100%				
			Yes		No		Total Responses					
			Num	Per	Num	Per	Num	Per				
This is my first math class at De Anza College			23	33%	47	67%	70	100%				
This is my first math class using EnableMath			48	69%	22	31%	70	100%				
	A		B		C		D		Total Responses			
	Num	Per	Num	Per	Num	Per	Num	Per	Num	Per		
What grade do you expect to receive in this class?	24	35%	30	43%	13	19%	2	3%	69	100%		
			Strongly Agree		Agree		Disagree		Strongly Disagree		Total Responses	
			Num	Per	Num	Per	Num	Per	Num	Per	Num	Per
I felt more engaged using EnableMath software			28	40%	28	40%	11	16%	3	4%	70	100%
EnableMath helped me learn more math than I would have without the software			28	40%	28	40%	12	17%	2	3%	70	100%
EnableMath helped to improve my grade			25	36%	30	43%	10	14%	5	7%	70	100%
I learned some facts from EnableMath that were not presented in the lecture			13	19%	30	43%	25	36%	2	3%	70	100%
I would take another math class with EnableMath			33	47%	26	37%	5	7%	6	9%	70	100%
I would recommend the EnableMath program to other students			30	44%	27	40%	7	10%	4	6%	68	100%
Completing the CSI was worth the time			12	17%	29	41%	23	33%	6	9%	70	100%
I learned something about myself while completing the CSI that will help me meet my goals at De Anza			6	9%	39	56%	19	27%	6	9%	70	100%
As I result of the CSI and the counselor presentation I am more likely to take advantage of college services			9	13%	40	57%	17	24%	4	6%	70	100%
I went to see a counselor with questions as a result of the CSI			5	7%	18	26%	37	53%	10	14%	70	100%
The feedback from the CSI helped me to do better in the class			7	10%	28	40%	26	37%	9	13%	70	100%