

De Anza College Developmental Math Pilot Results, 2005-06

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De Anza College Research

Pilot Interventions

Noel Levitz College Student Inventory (CSI) administered each quarter

- Counselors provide in-class feedback
- Offer assistance for those most at risk

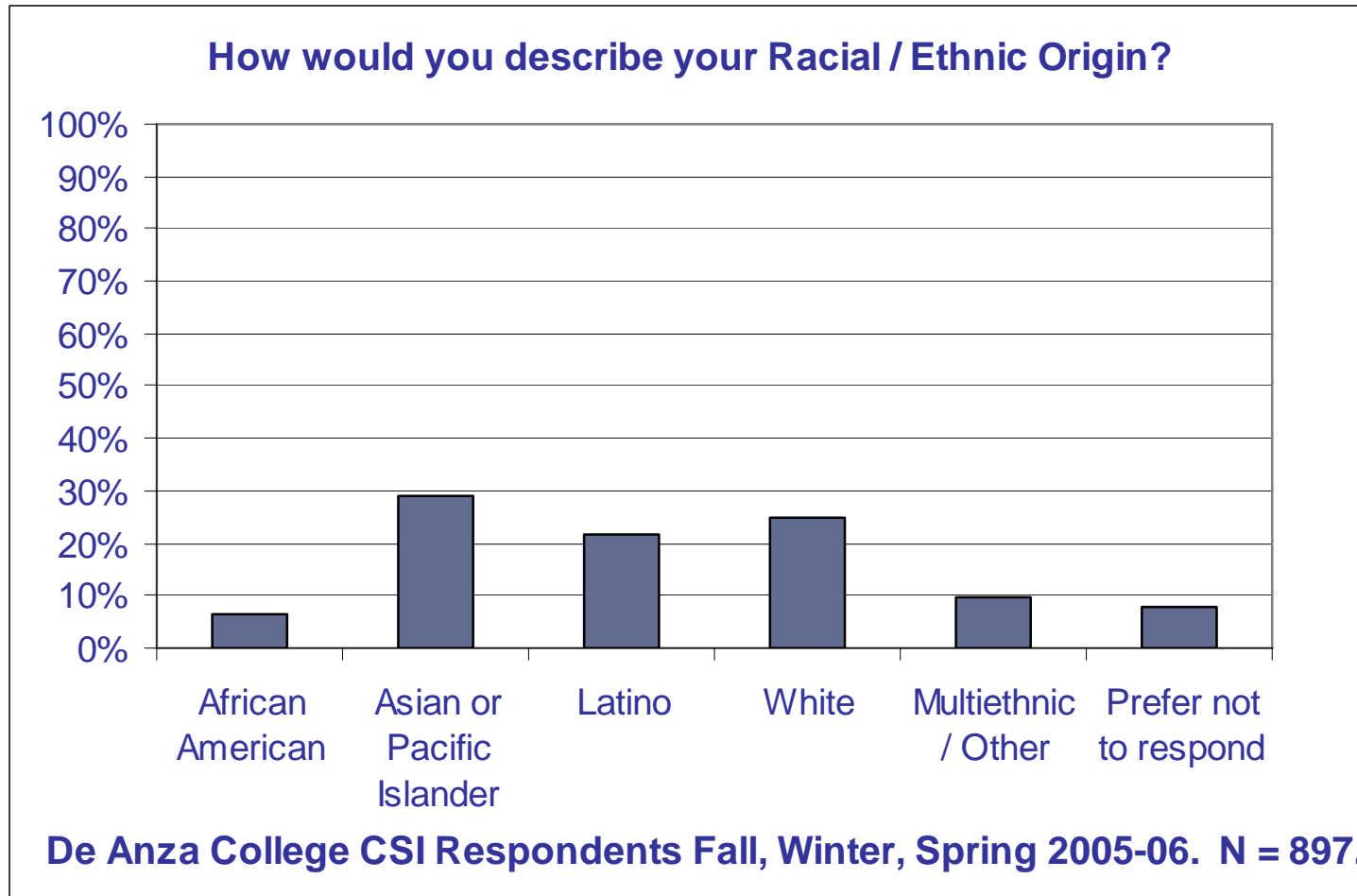
EnableMath Software/Textbook

- Provides mastery based homework questions done in lab during class time
- Software gives student and teacher weekly updates on progress

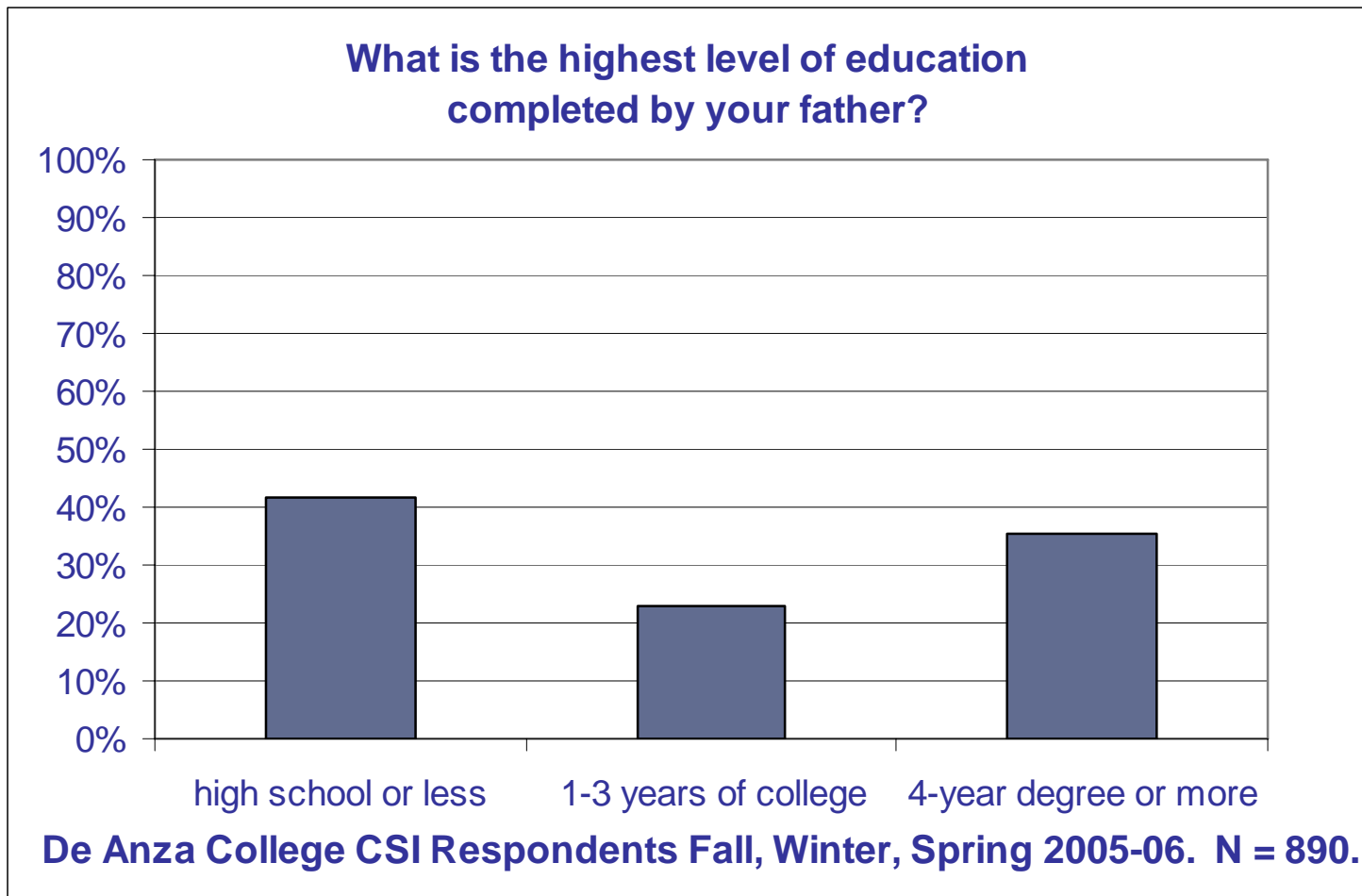
Highlights

- Early results look promising but vary by term, instructor and course
- The differences in success rates between the pilot and other sections translates into more than 100 students successfully completing their math course than we otherwise would have expected
- More research is needed to determine the relative effect of each intervention

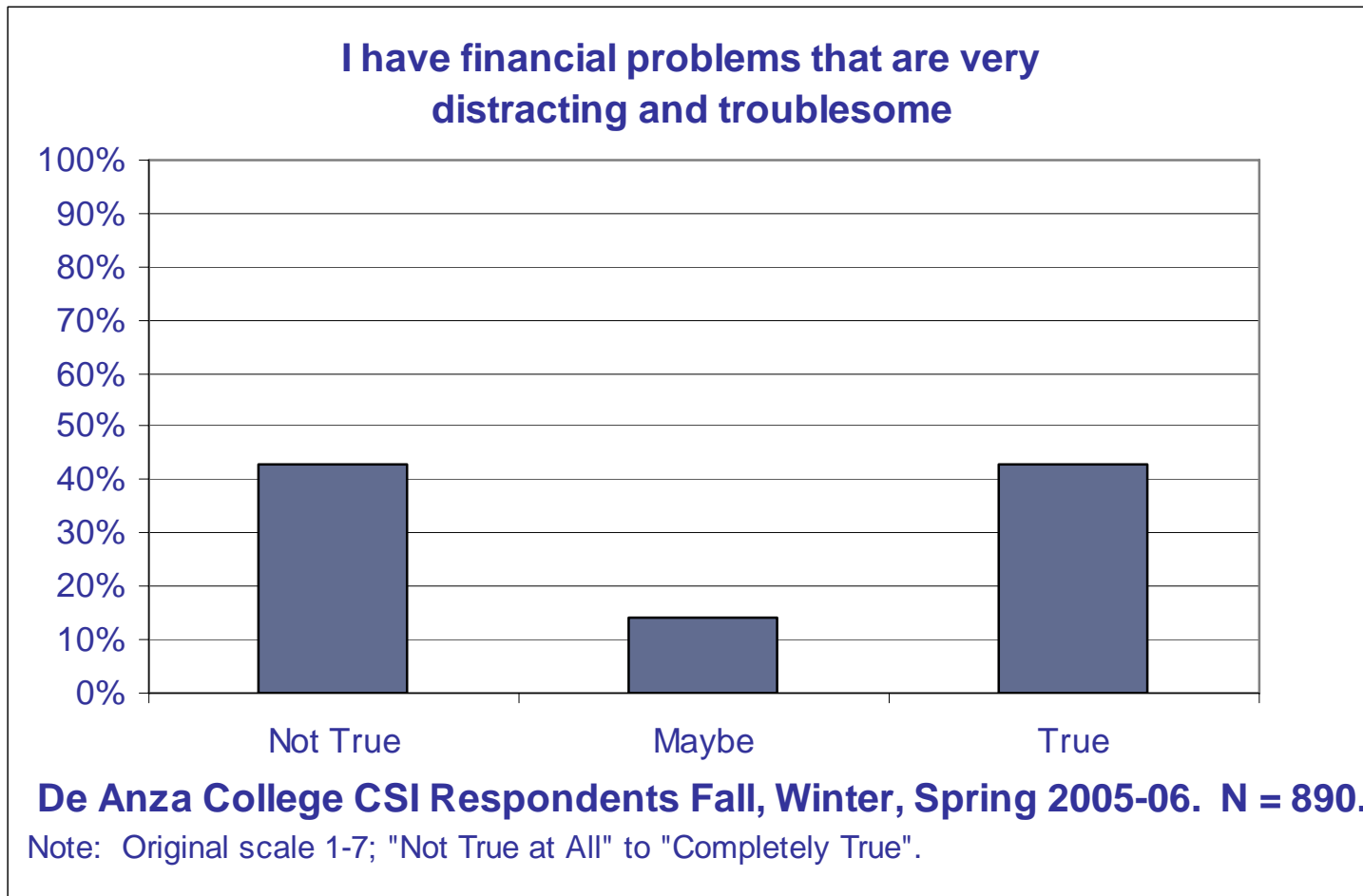
Demographics of CSI Takers



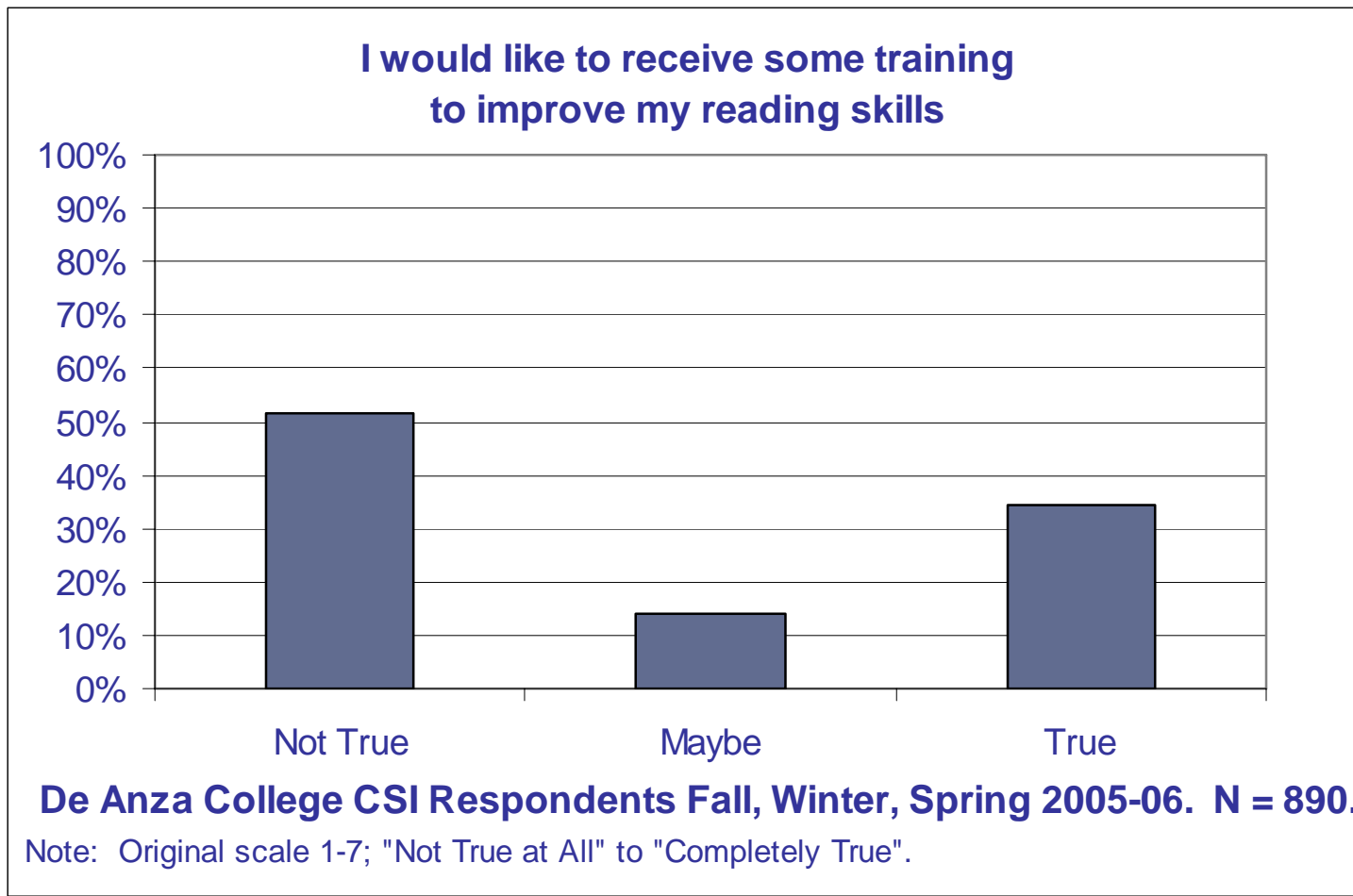
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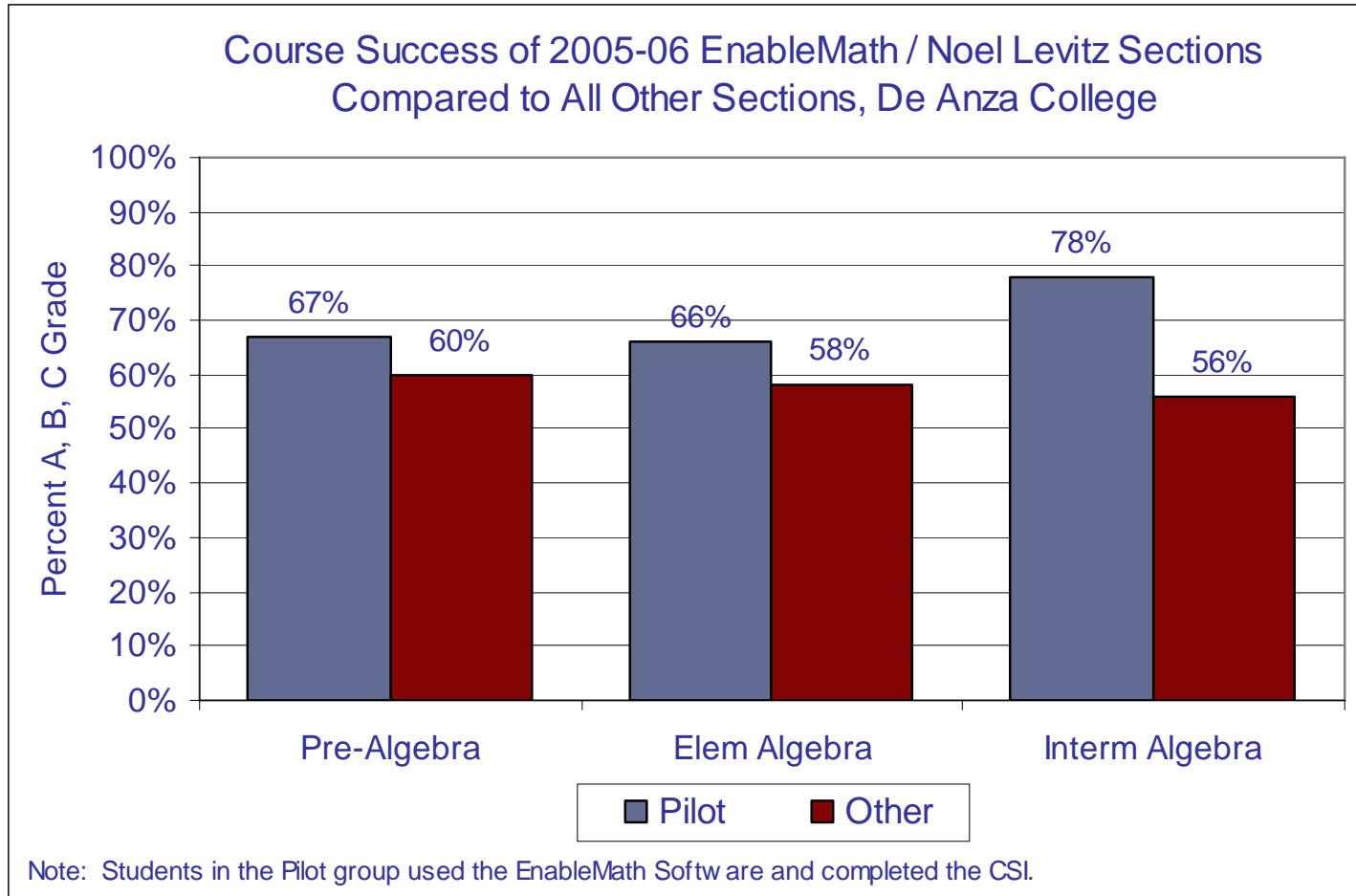


Early Results 2005-06

De Anza College Math Pilot Sections / Students, 2005-06

<u>Course</u>	<u>Group</u>	<u># Sec</u>	<u>HC</u>
Pre-Algebra	Pilot	7	203
	Other	24	819
Elem Algebra	Pilot	6	157
	Other	43	1,485
Interm Algebra	Pilot	12	384
	Other	50	1,619
Total	Pilot	25	744
	Other	117	3,923

Early Results 2005-06



Early Results 2005-06

Course Success of 2005-06 EnableMath / Noel Levitz Sections Compared to All Other Sections, De Anza College

Course	Group	Pass		Did Not Pass		Withdrew		Total	
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
Pre-Algebra	Pilot	137	67%	44	22%	22	11%	203	100%
	Other	491	60%	180	22%	148	18%	819	100%
Elem Algebra	Pilot	104	66%	36	23%	17	11%	157	100%
	Other	859	58%	296	20%	330	22%	1485	100%
Interm Algebra	Pilot	300	78%	49	13%	35	9%	384	100%
	Other	903	56%	283	17%	433	27%	1619	100%

Includes end of term grades of students enrolled at census (3rd week).

Note: Students in the Pilot group used the EnableMath Software and completed the CSI.

Using Chi Square at .05 the results from each course are statistically different using a 2x2 methodology where one dimension is success/nonsuccess and the other is Pilot/NoPilot.

Early Results 2005-06

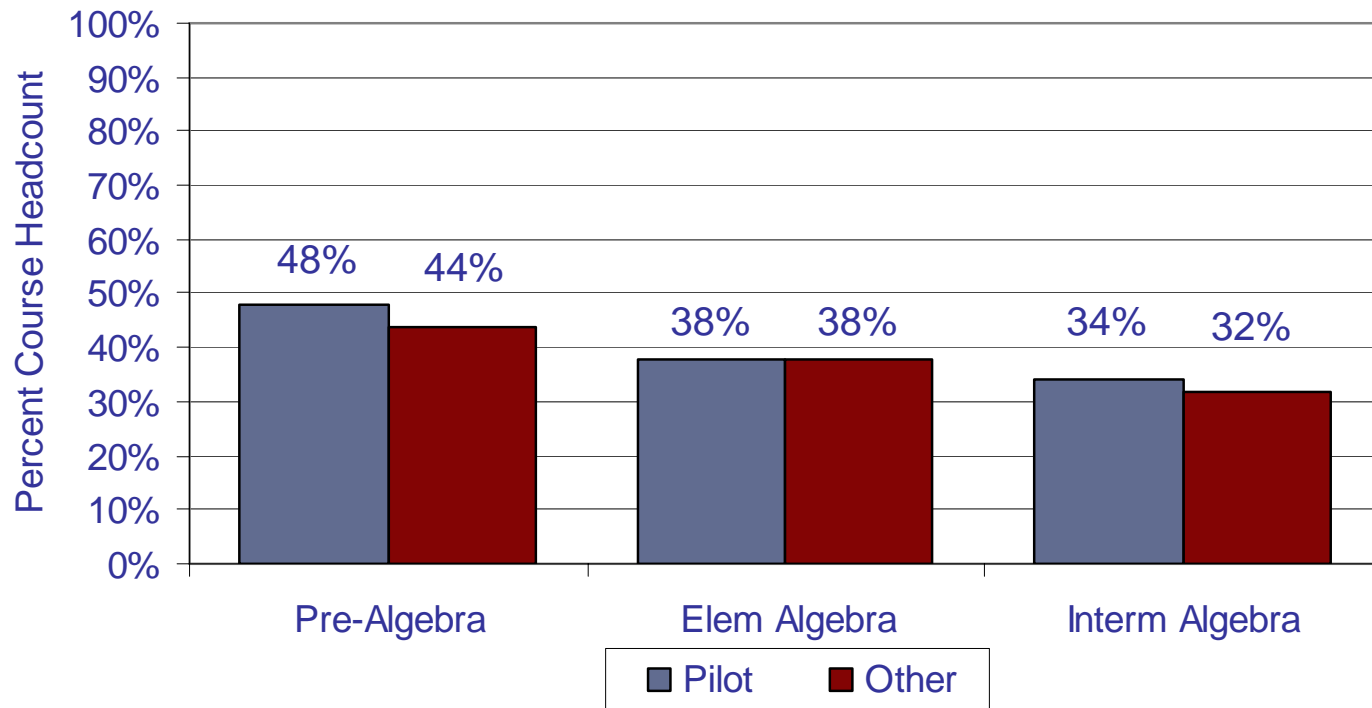
De Anza College Math Pilot and Other Sections Average Course Grades, 2005-06

Course	Pilot	Other
Pre Algebra	2.13	1.86
Elem Algebra	2.02	1.81
Interm Algebra	2.38	1.70

Differences significant at .05 using a two tail T test.
W grades counted as no pass or 0.

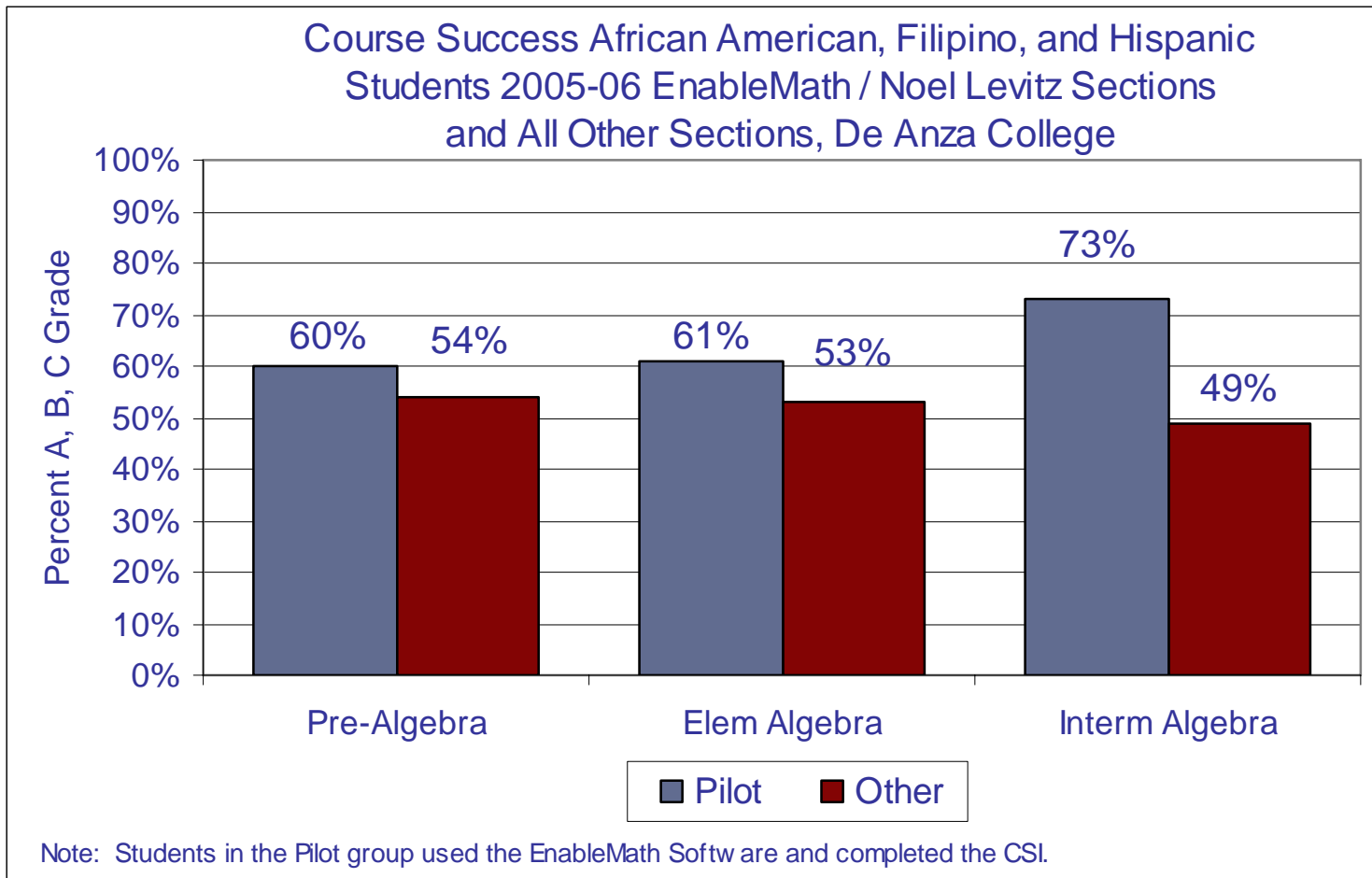
Early Results by Ethnicity

Enrollment of African American, Filipino, and Hispanic Students
2005-06 EnableMath / Noel Levitz Sections
and All Other Sections, De Anza College

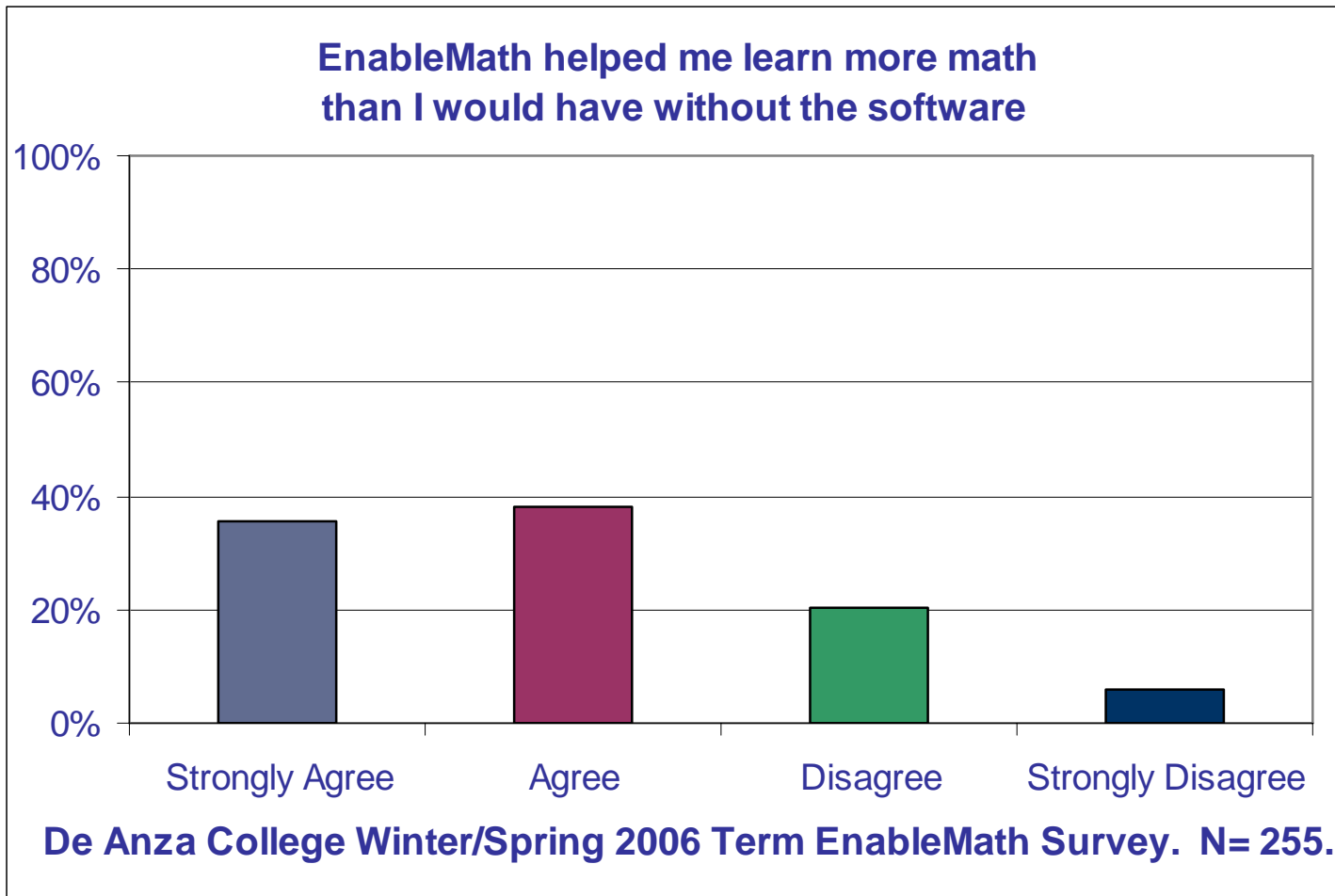


These three ethnic groups represent less than 25% of the college population.

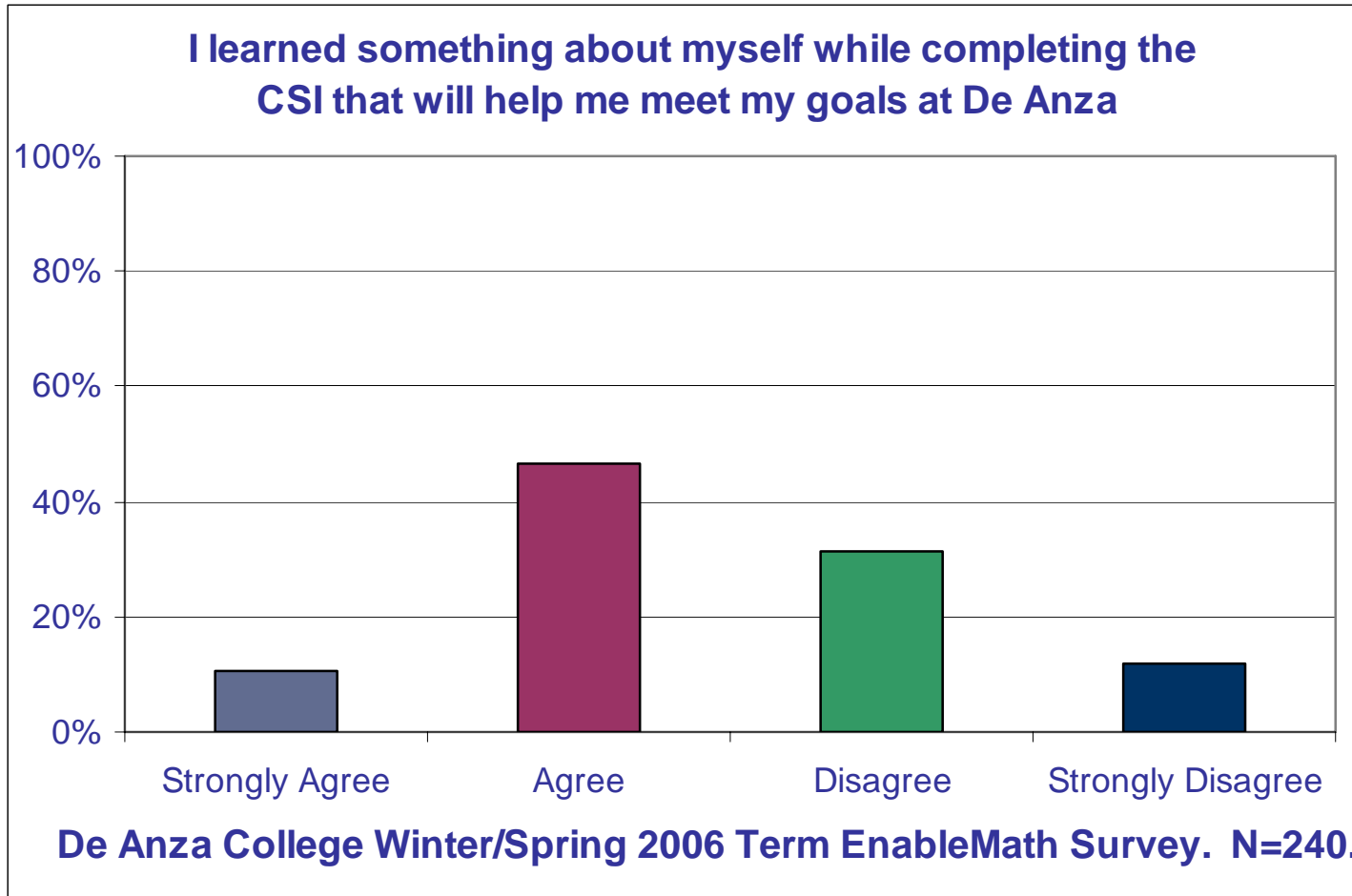
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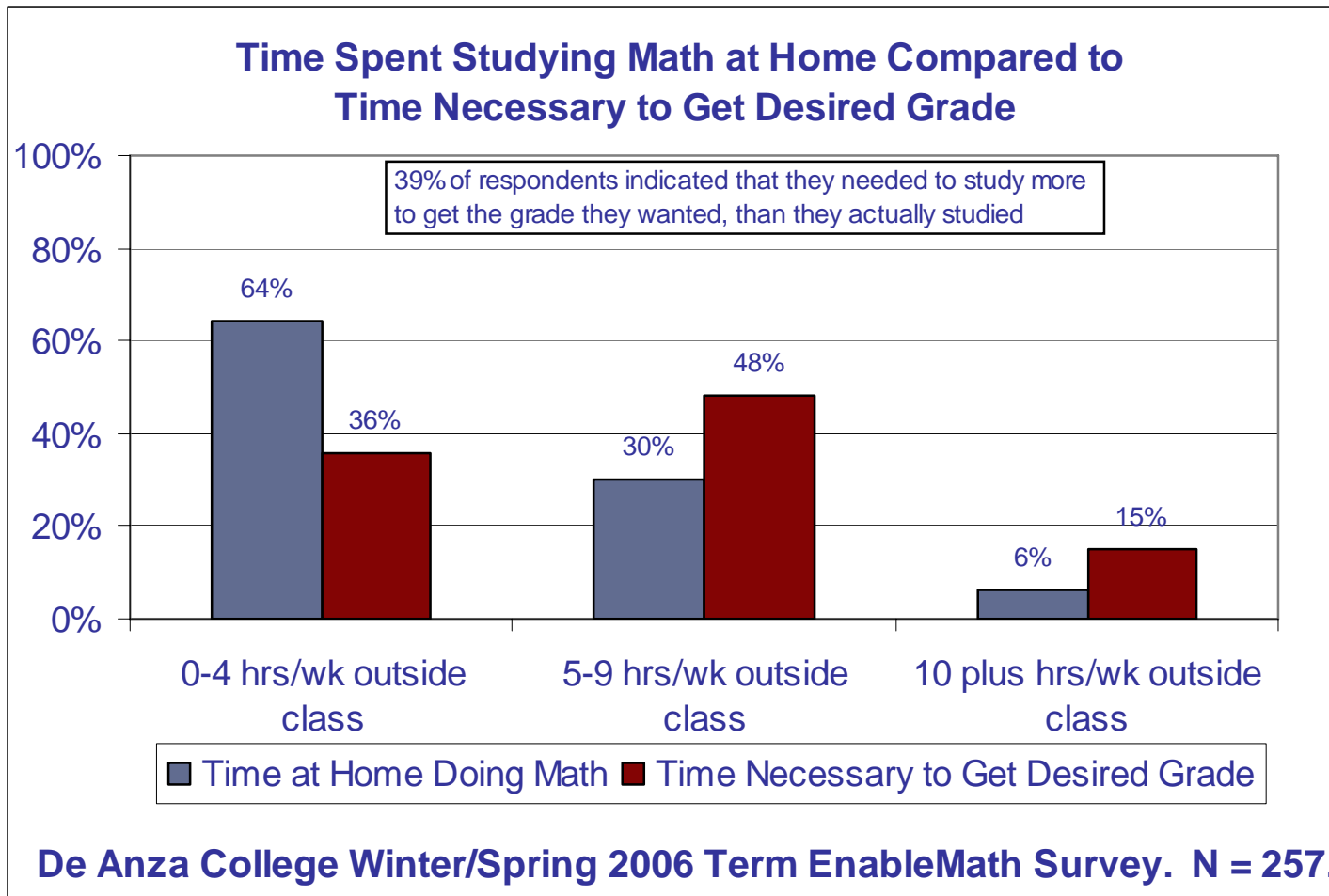
De Anza End of Class Survey



De Anza End of Class Survey



De Anza End of Class Survey



Data Limitations

- Not all Students Completed the CSI
- Student Self Selection Bias
 - EnableMath sections were not identified in Fall 2005 but were noted in Winter and Spring 2006
- Instructors Self Selected and Limited in Number
- Need to link EnableMath data
- Repeats – counting both grades

Questions

