



# **REALIZING THE DREAM: Using Data to Increase Achievement**

**KIPP National Conference  
San Antonio, Texas  
July 30, 2008**

**John Lee**  
jlee@collegeboard.org

**Ellen Sawtell**  
esawtell@collegeboard.org

connect to college success™  
[www.collegeboard.com](http://www.collegeboard.com)

# The Numbers – Nation

- In 2007, nearly 1.5 million students graduated having taken the SAT®
- When students register to take the SAT, they are asked to fill out a 42-item questionnaire
- About 75% of students who took AP also filled out the SAT questionnaire

# The Population & The Instrument

- The SAT is primarily taken by juniors and seniors in high school
- The SAT is a test that measures critical reading, math, and writing
- The SAT questionnaire includes questions about:
  - demographic information
  - high school coursework and activities, and
  - college preferences and aspirations

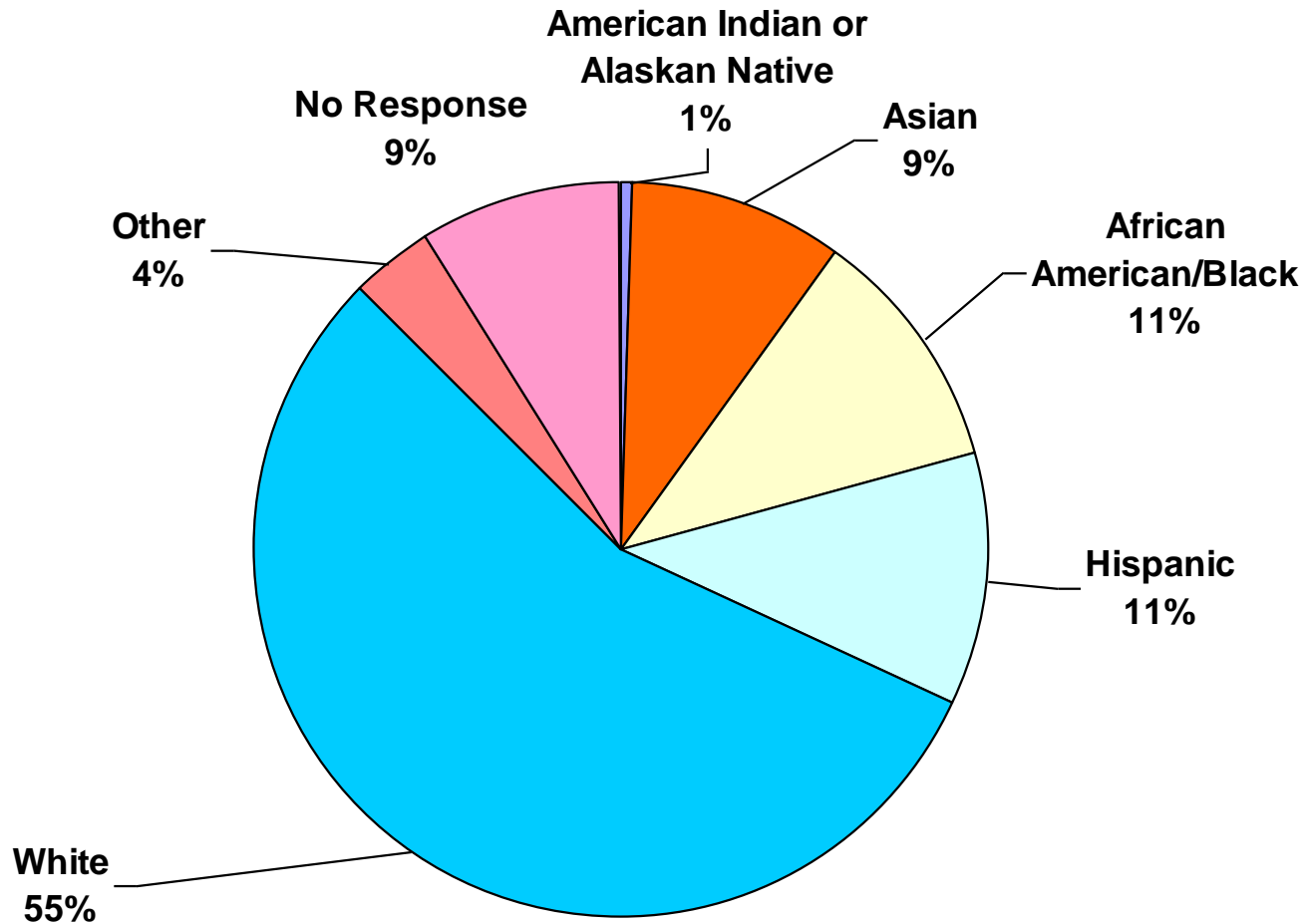
# Overview of Students in the 2007 SAT<sup>®</sup> Cohort

- Description of First Generation Students
  - Size and Growth
  - Gender
  - Ethnicity
  - Income
- Academic Preparation, College Plans and Aspirations
  - SAT Mean Scores
  - Degree Level Goals
  - Core Curriculum
  - Rigorous Math and Science Courses
  - College Location Choice
  - Housing Plans
  - Plans to Work Part Time

# Limitations of our research include..

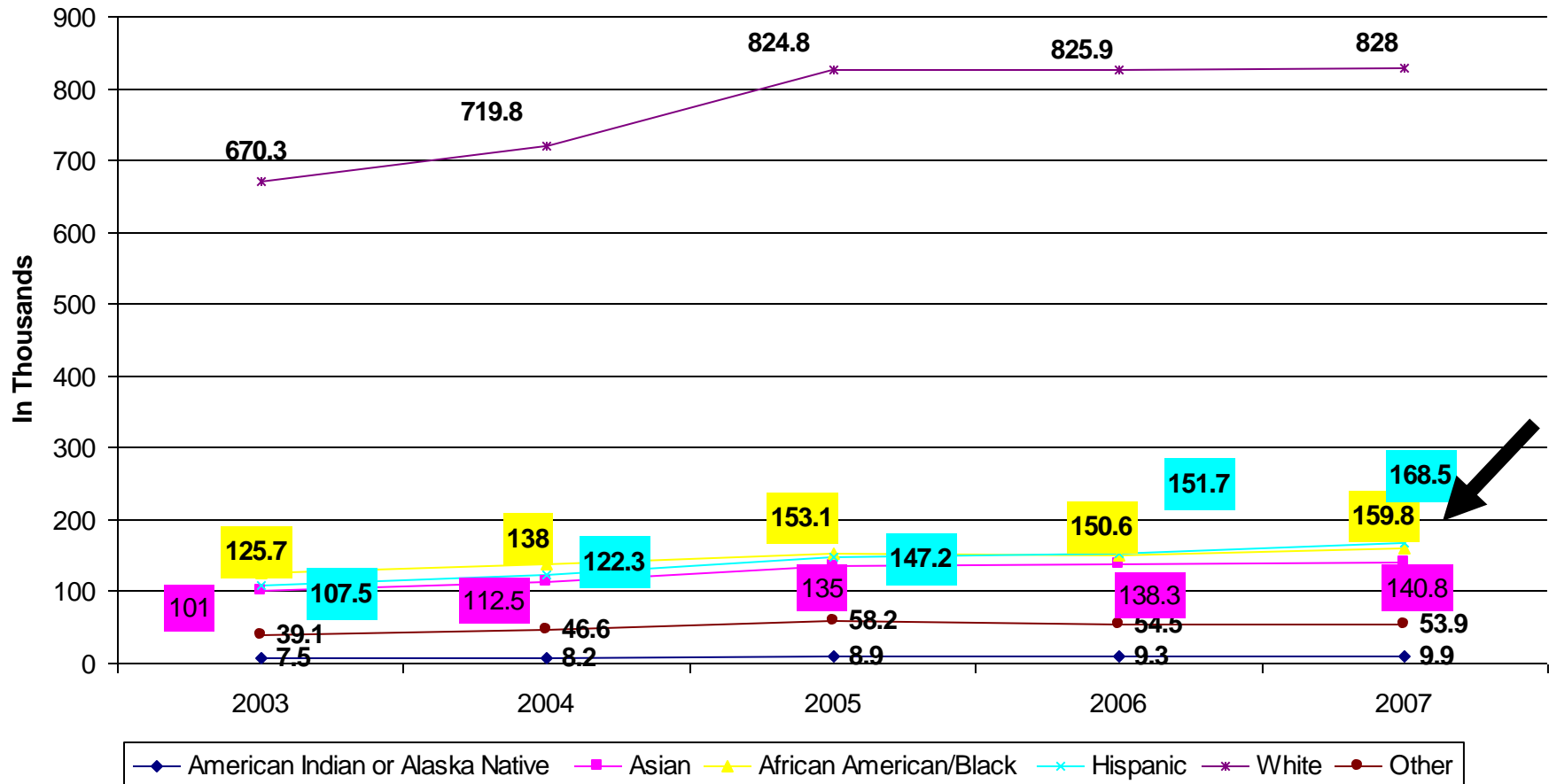
- Students who are not offered AP at their schools
- Students who do not take the SAT
- Research limited to three AP Exams

# Students in the 2007 SAT<sup>®</sup> Cohort by Ethnicity

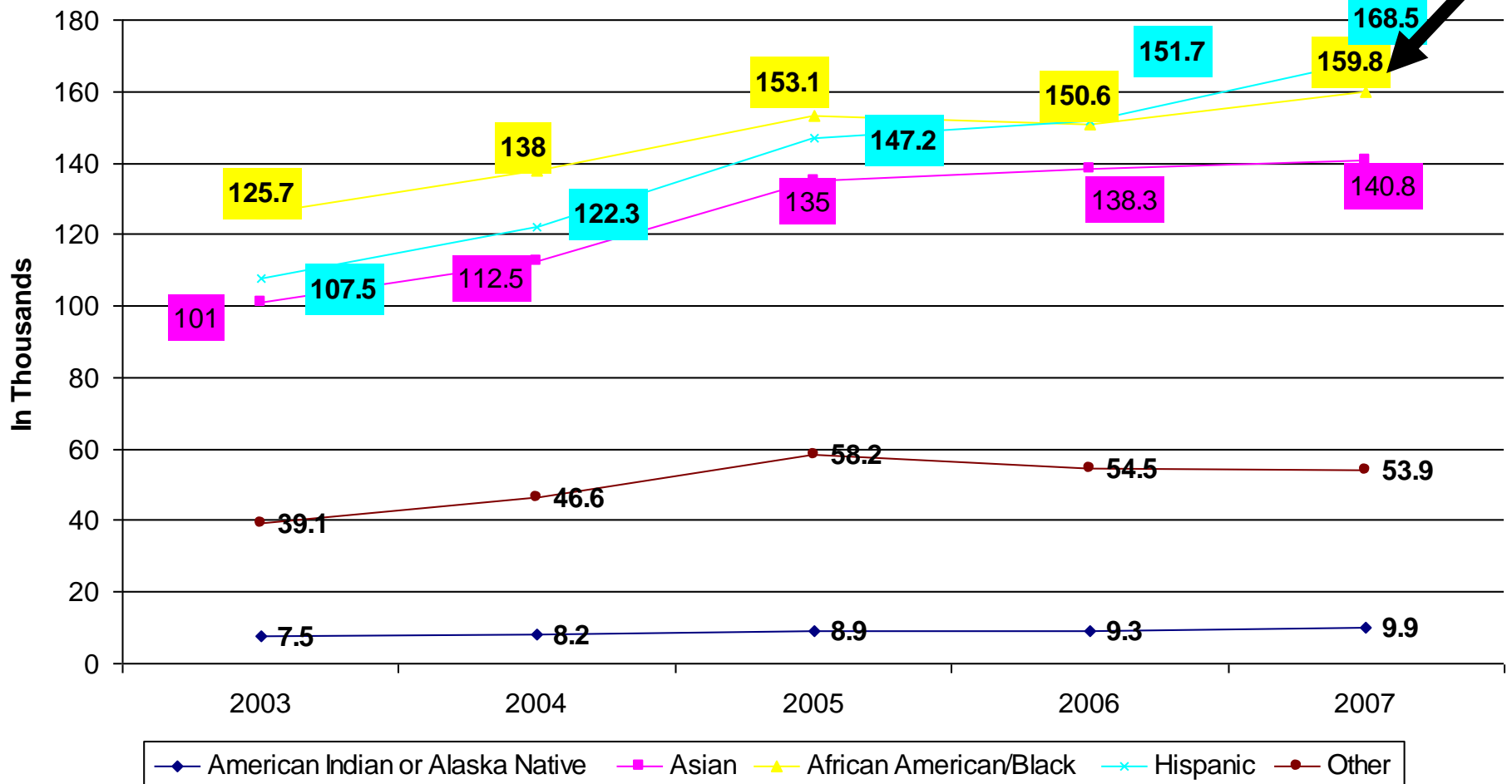


■ American Indian or Alaskan Native ■ Asian ■ African American/Black ■ Hispanic ■ White ■ Other ■ No Response

# Students in the SAT<sup>®</sup> Cohort by Ethnicity 2003-2007

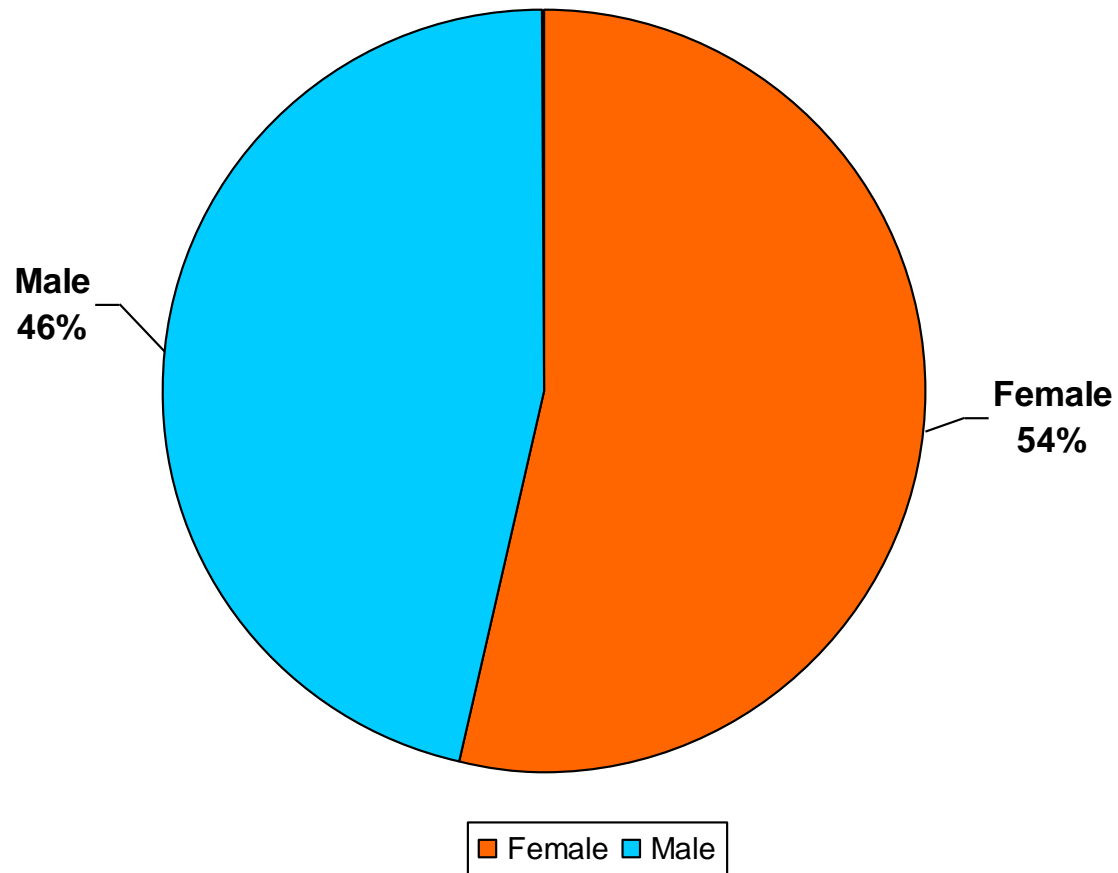


# Students in the SAT<sup>®</sup> Cohort by Ethnicity 2003-2007

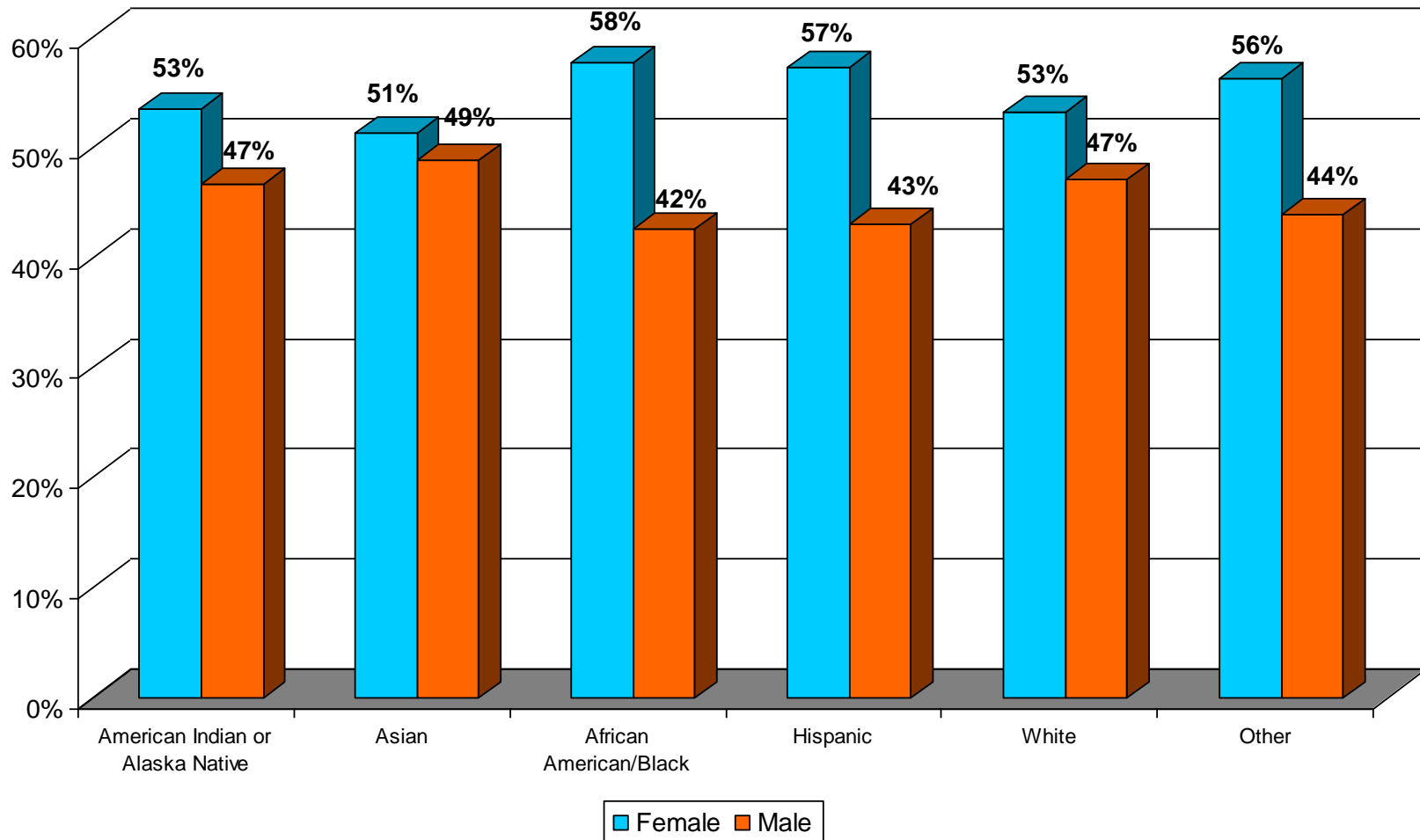




# Students in the 2007 SAT<sup>®</sup> Cohort by Gender

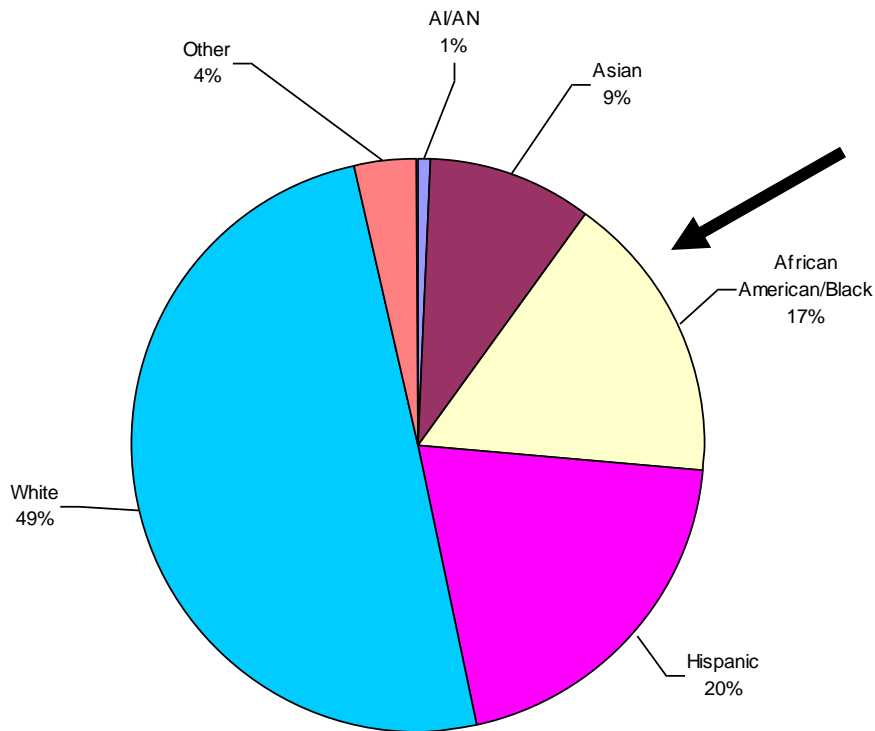


# Students in the 2007 SAT<sup>®</sup> Cohort by Ethnicity and Gender

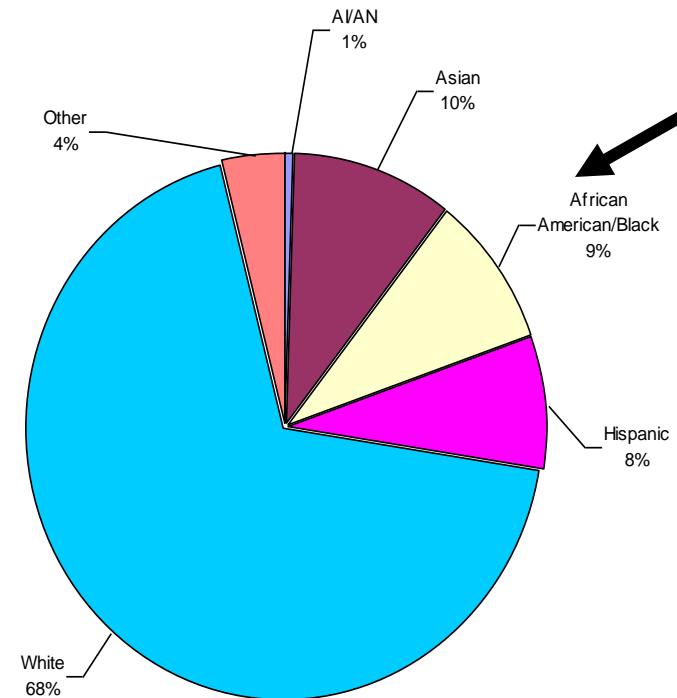


# First Generation and Non-First Generation Students in the SAT® Cohort 2002- 2007 by Ethnicity

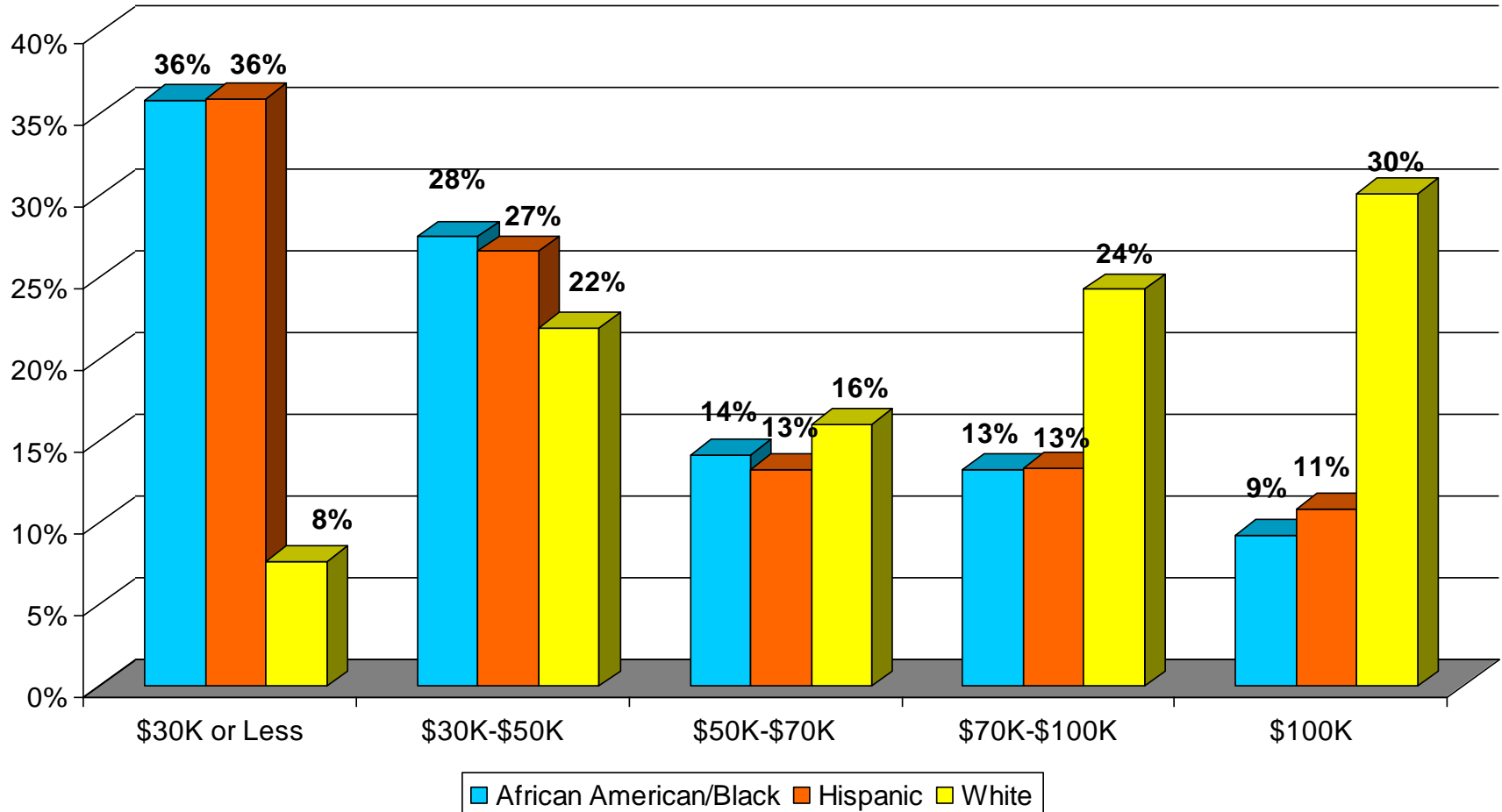
Percent of First Generation



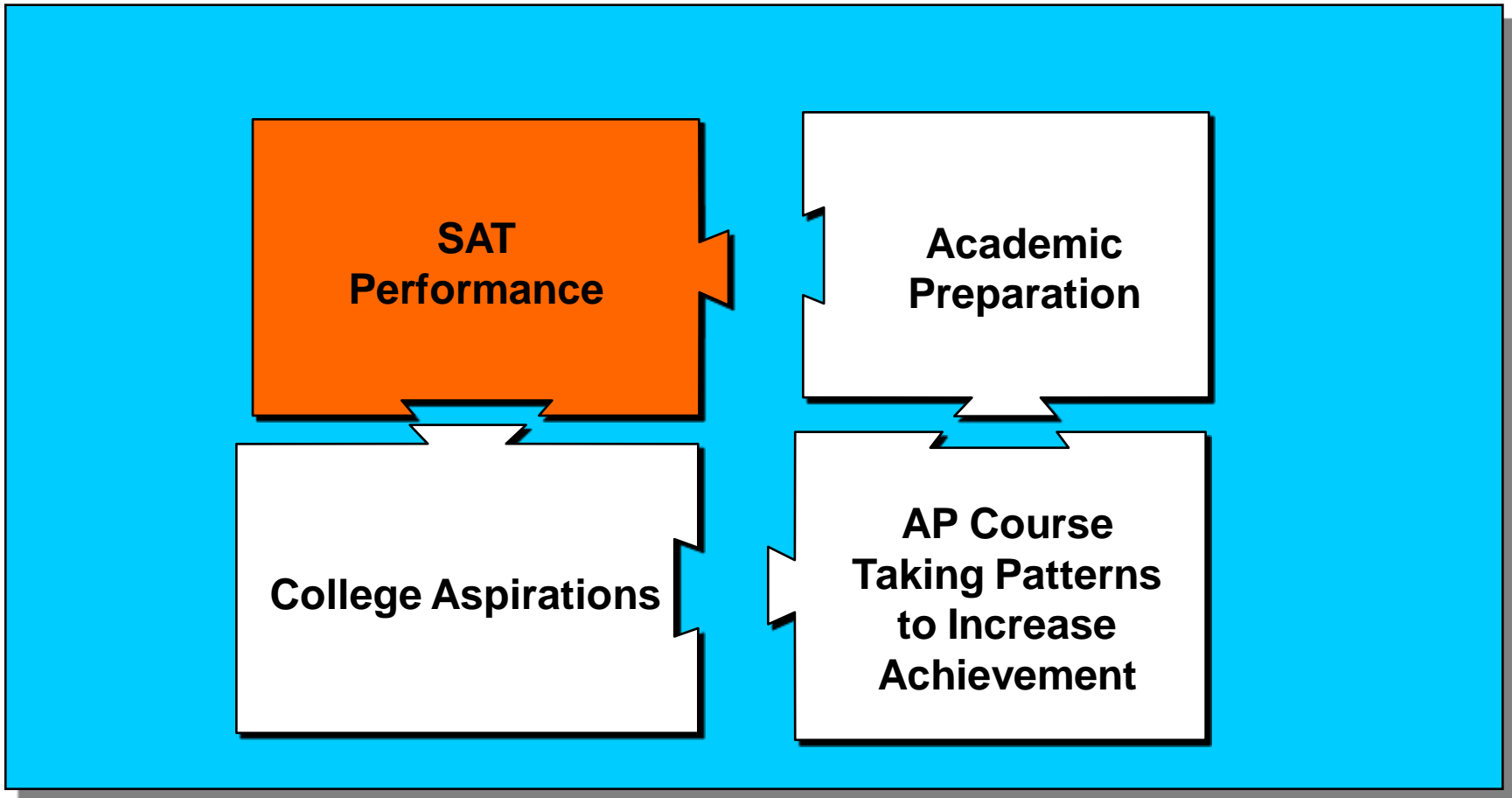
Percent of Non- First Generation Students



# Household Income by Ethnicity for Students in the 2007 SAT® Cohort



# SAT Performance of Students in the 2007 SAT® Cohort



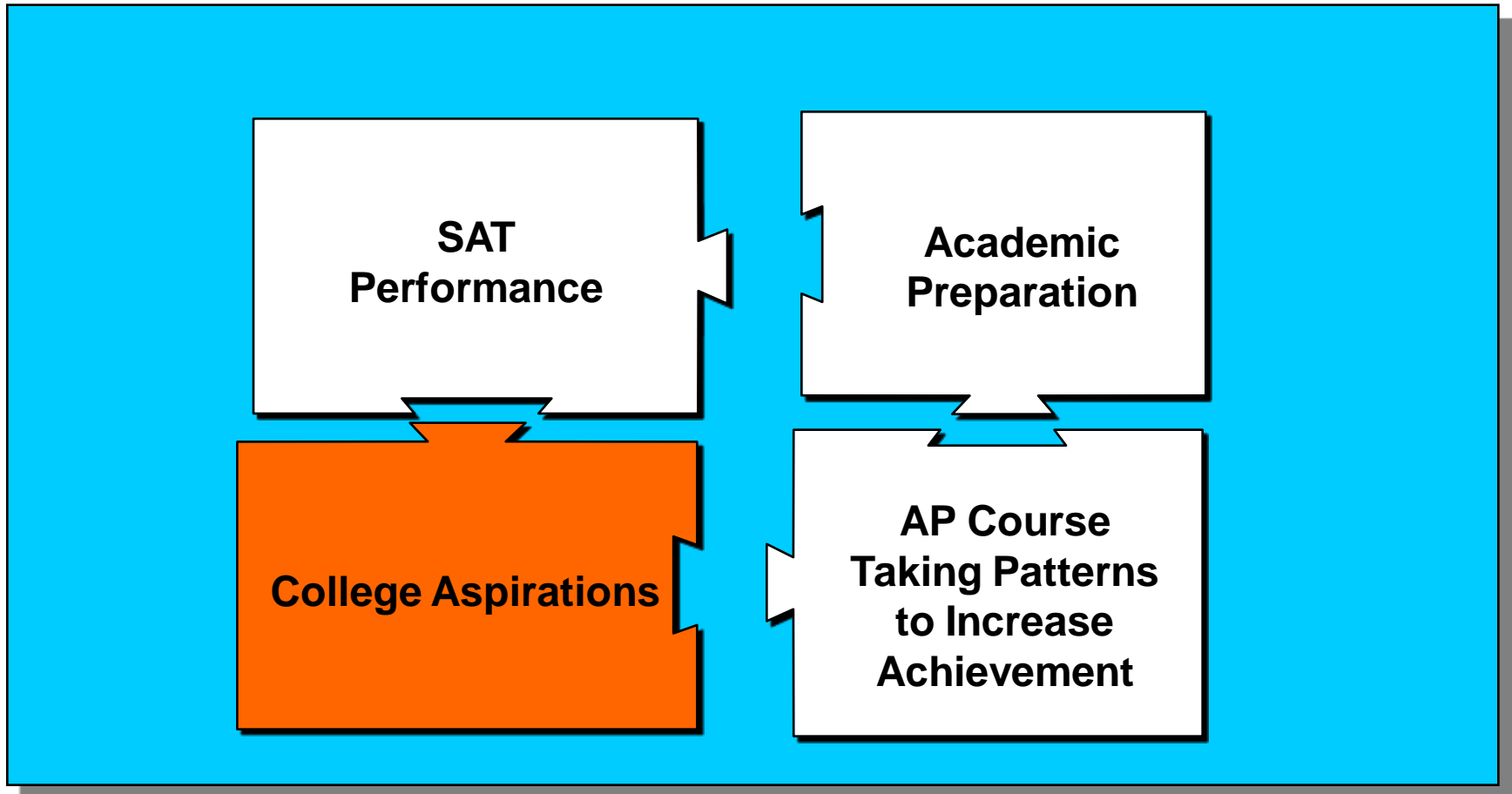
# 2007 SAT<sup>®</sup> Mean Scores by Ethnicity

<b>National: 2007 SAT Mean Scores by Ethnicity</b>			
	<b>Critical Reading</b>	<b>Mathematics</b>	<b>Writing</b>
<b>American Indian or Alaska Native</b>	487	494	473
<b>Asian</b>	514	578	513
<b>African American/Black</b>	433	429	425
<b>Hispanic</b>	458	461	449
<b>White</b>	527	534	518

# 2007 SAT<sup>®</sup> Mean Scores by Gender-Ethnicity

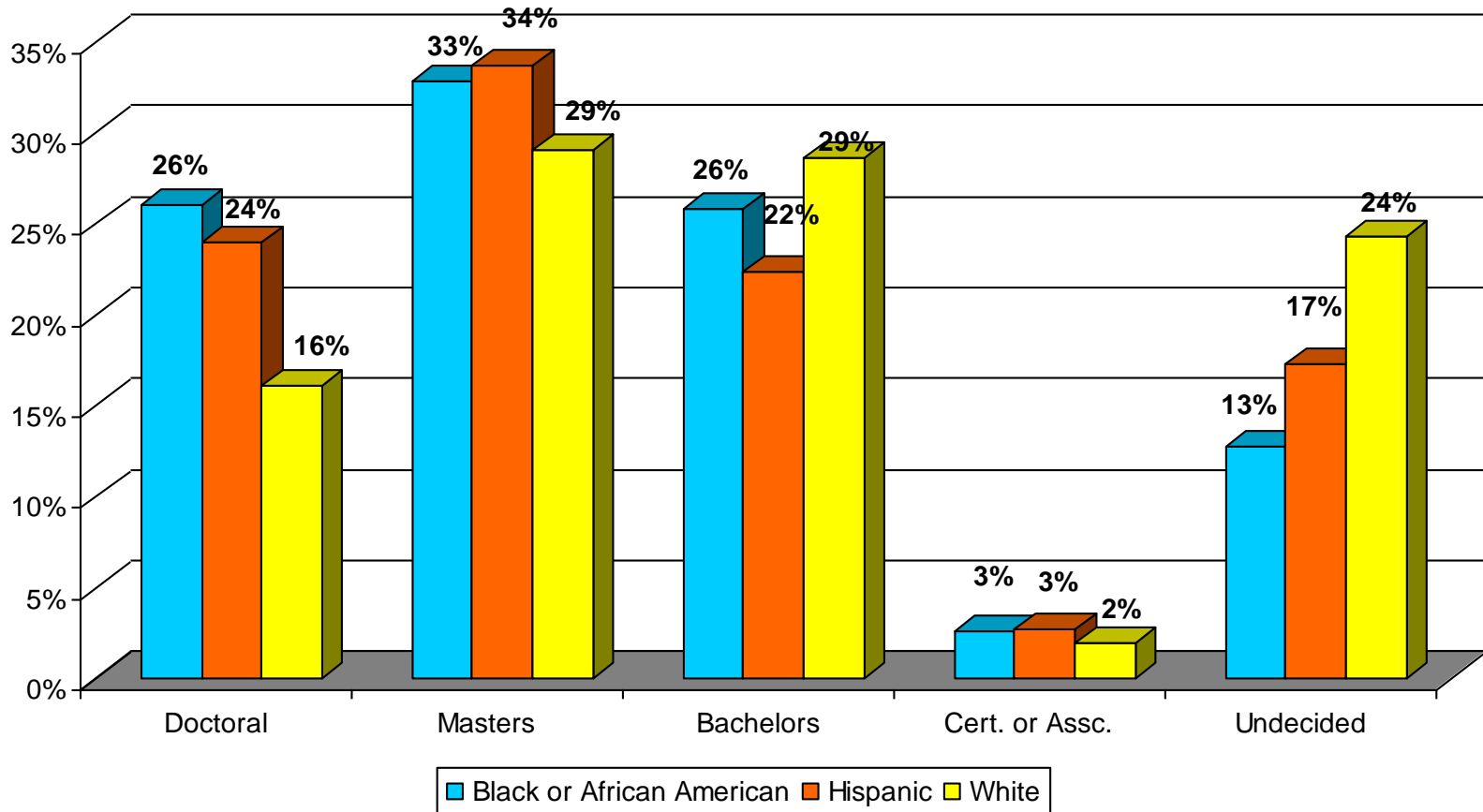
<b>National: 2007 SAT Mean Scores by Gender and Ethnicity</b>			
<b>American Indian or Alaskan Native</b>	<b>Critical Reading</b>	<b>Mathematics</b>	<b>Writing</b>
Female	485	478	478
Male	490	513	468
<b>Asian</b>	<b>Critical Reading</b>	<b>Mathematics</b>	<b>Writing</b>
Female	515	565	519
Male	513	592	506
<b>African American/Black</b>	<b>Critical Reading</b>	<b>Mathematics</b>	<b>Writing</b>
Female	436	423	433
Male	429	437	414
<b>Hispanic</b>	<b>Critical Reading</b>	<b>Mathematics</b>	<b>Writing</b>
Female	455	447	452
Male	461	480	446
<b>White</b>	<b>Critical Reading</b>	<b>Mathematics</b>	<b>Writing</b>
Female	526	519	524
Male	529	553	511

# College Aspirations of Students in the 2007 SAT<sup>®</sup> Cohort

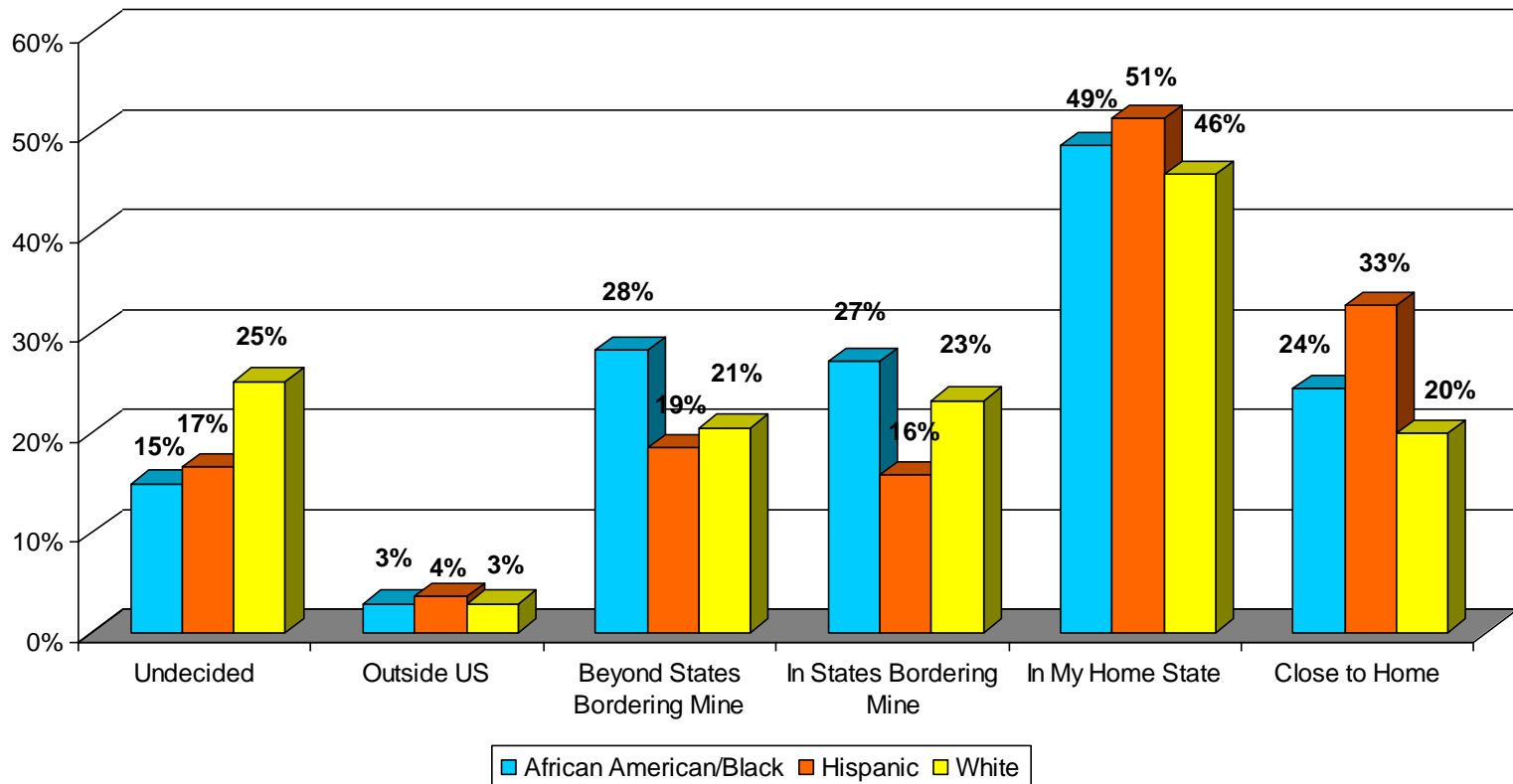




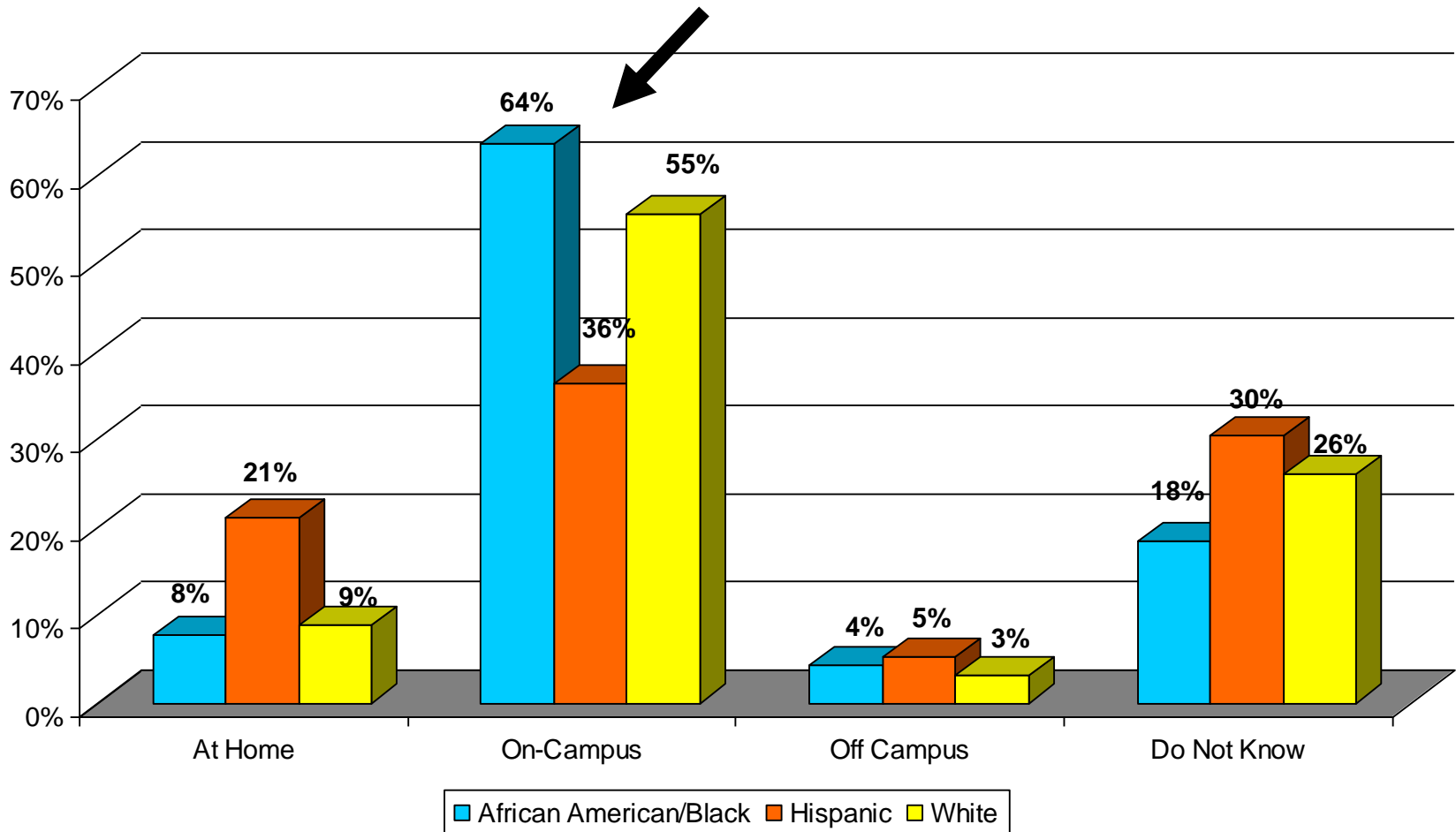
# Degree Level Goals by Ethnicity of Students in the 2007 SAT<sup>®</sup> Cohort



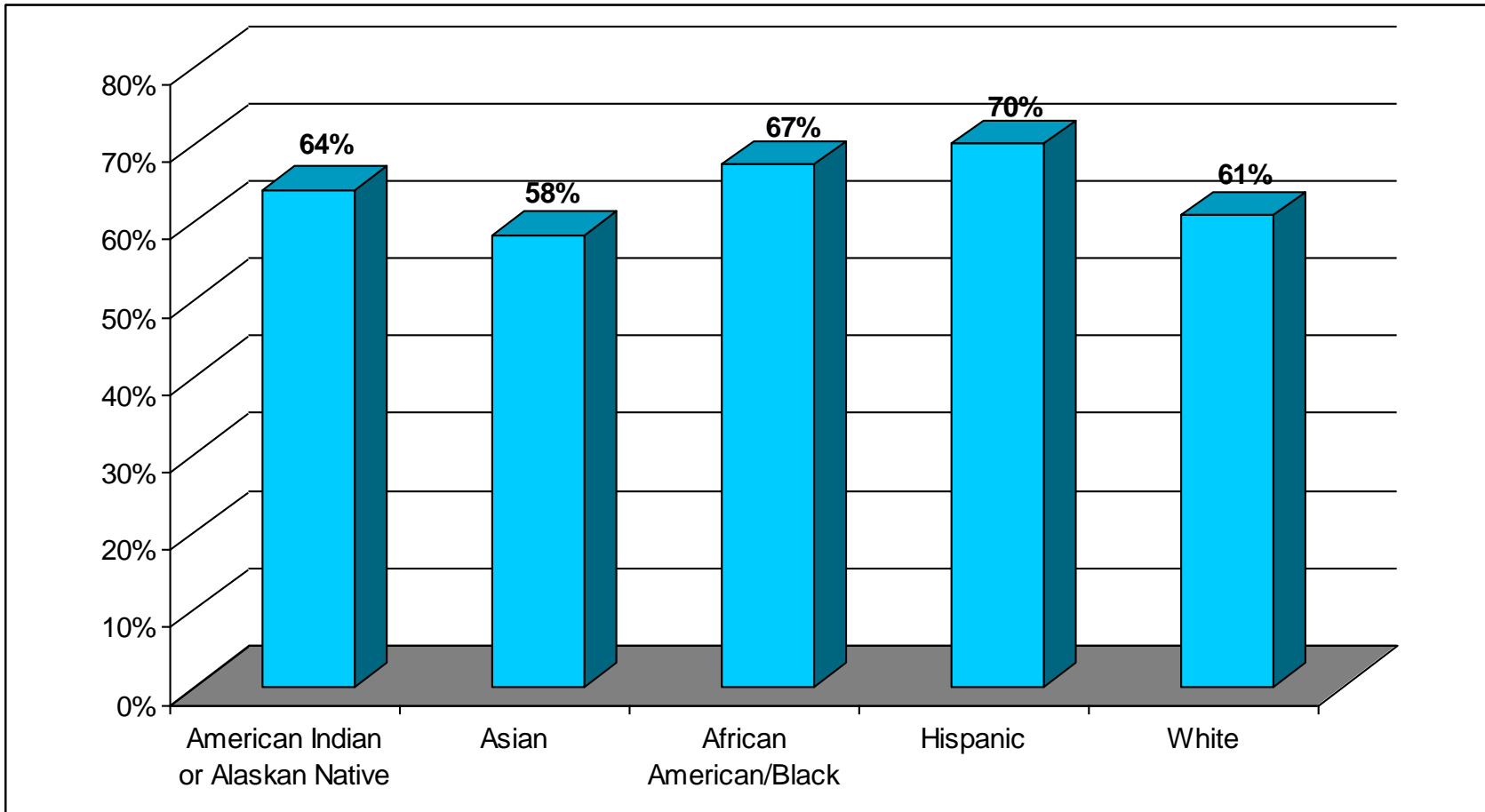
# College Location Preference by Ethnicity in the 2007 SAT<sup>®</sup> Cohort



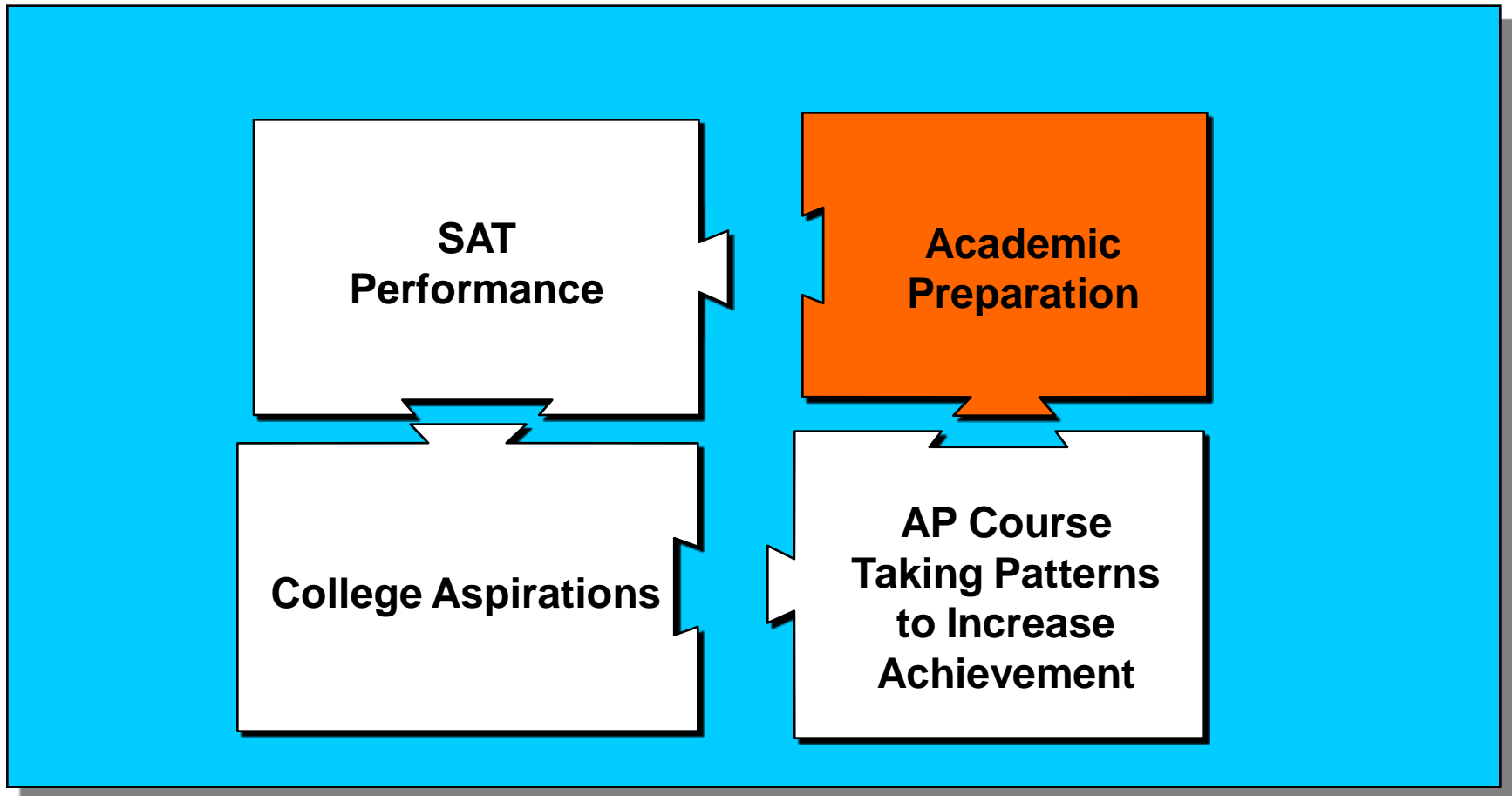
# Housing Preference by Ethnicity in the 2007 SAT<sup>®</sup> Cohort



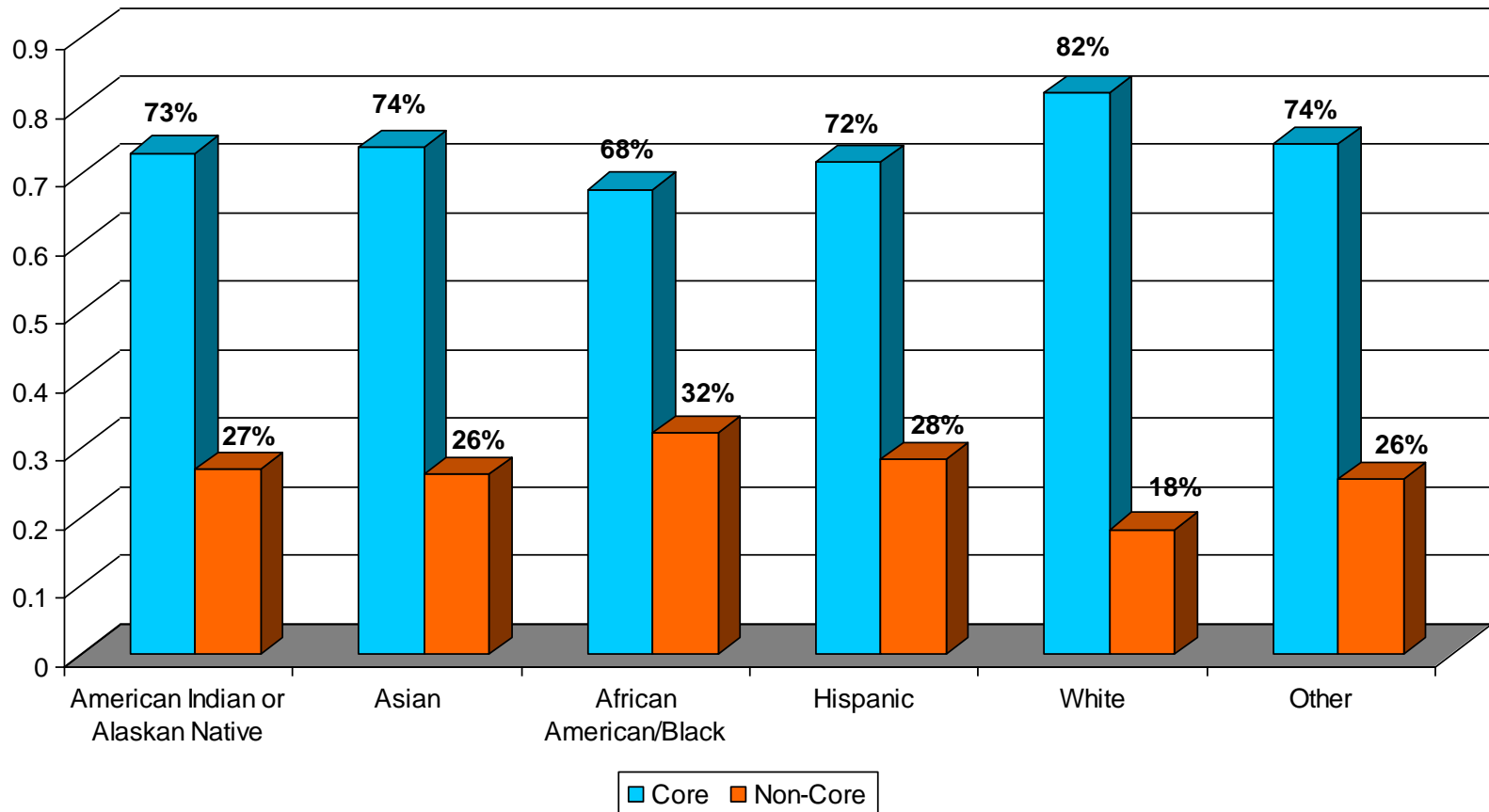
# Plans to Seek Part Time Job in College by Ethnicity in the 2007 SAT<sup>®</sup> Cohort



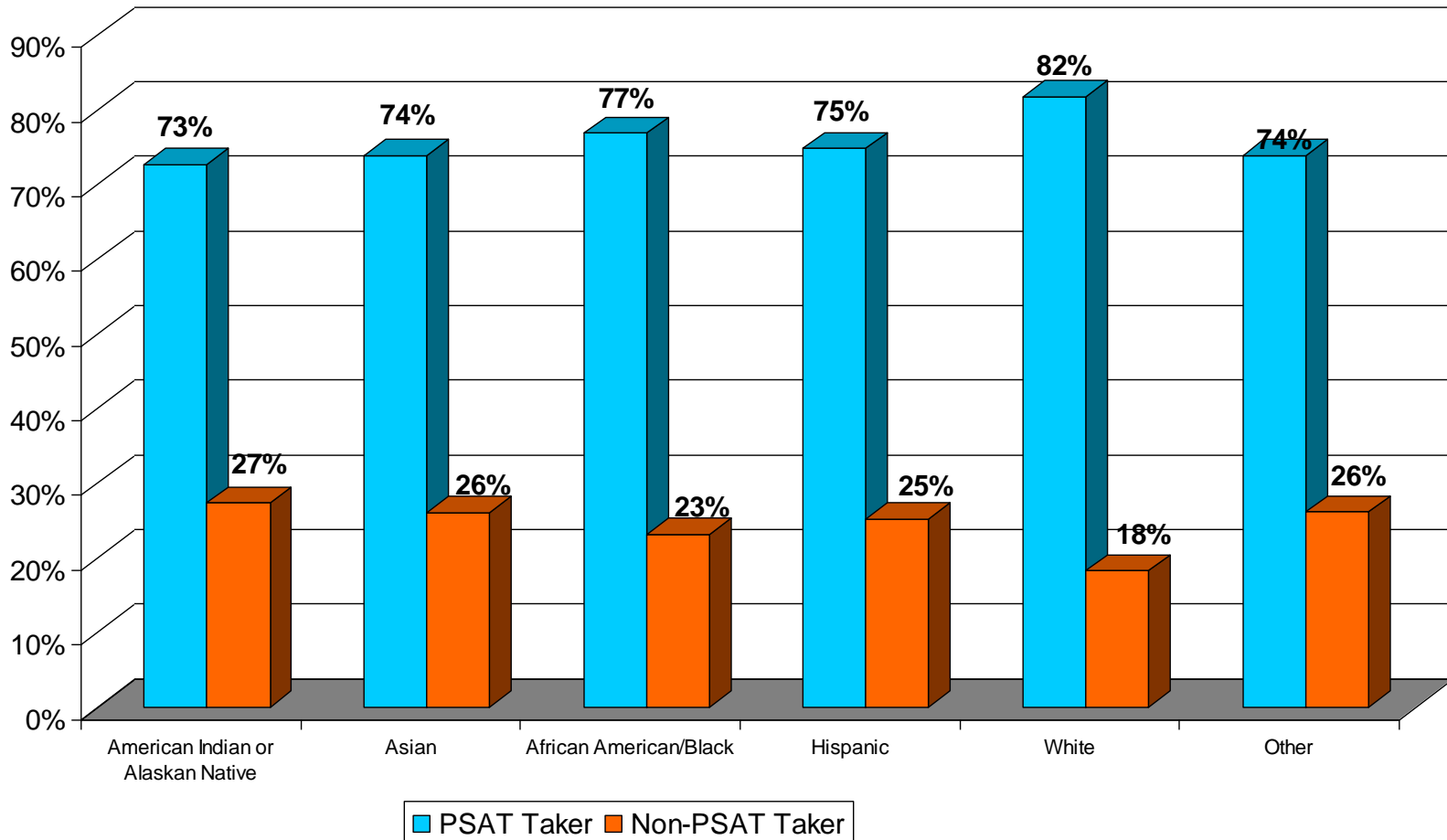
# Academic Preparation of Students in the 2007 SAT<sup>®</sup> Cohort



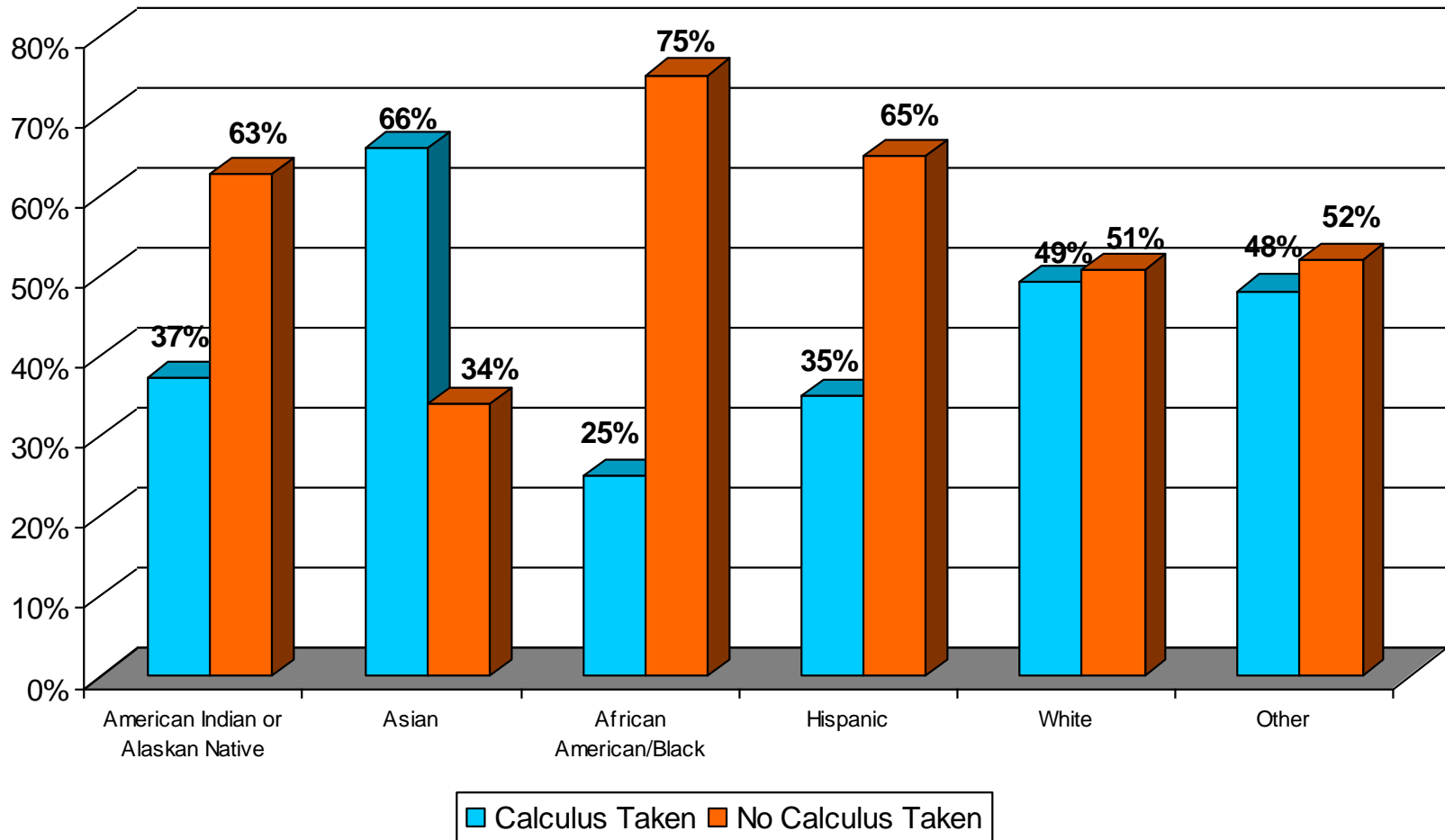
# Academic Preparation by Ethnicity of Students in the 2007 SAT® Cohort



# PSAT Taker by Ethnicity of Students in the 2007 SAT® Cohort



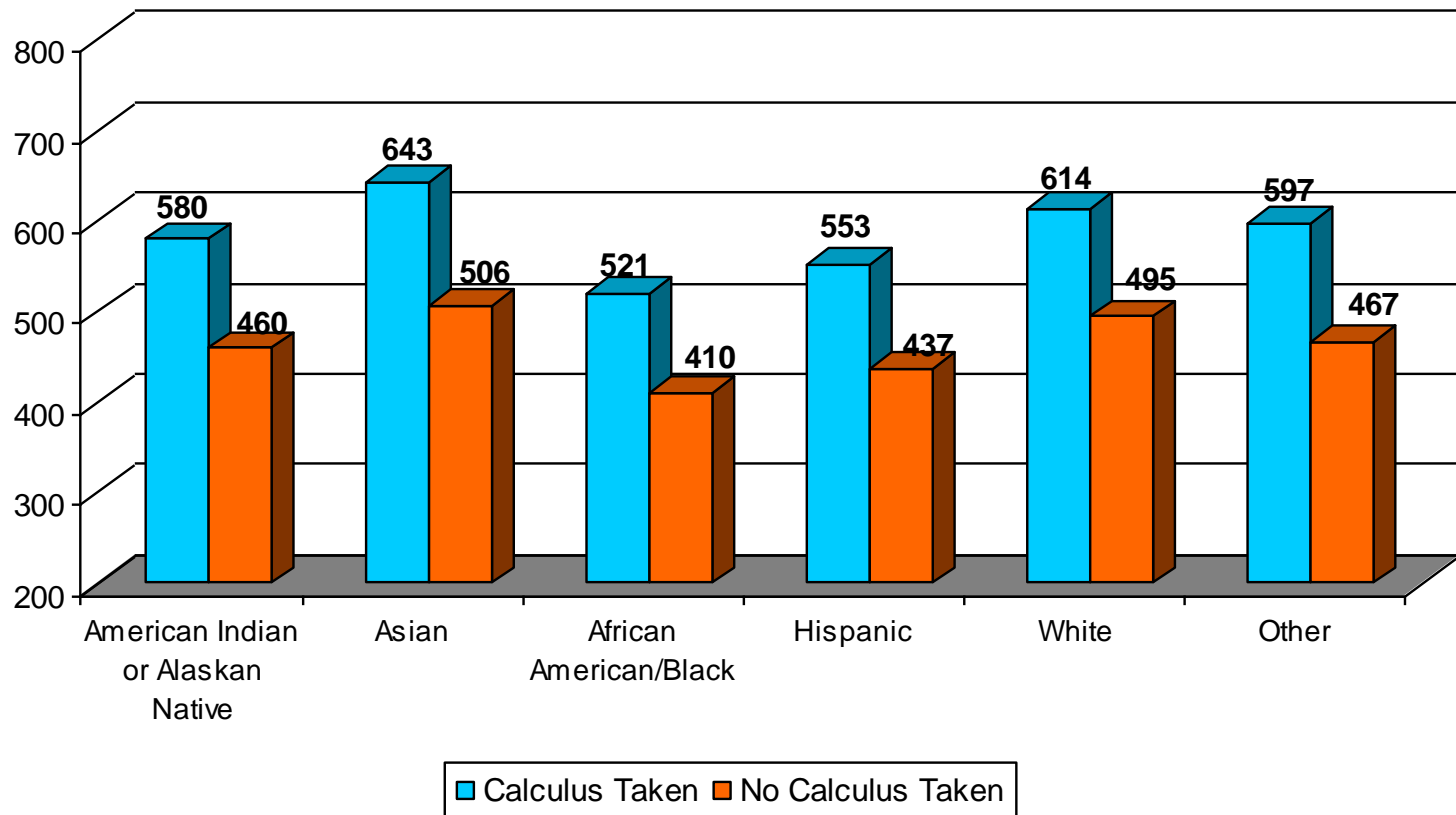
# Level of College Preparation by Ethnicity in the 2007 SAT<sup>®</sup> Cohort – Calculus Course Taken



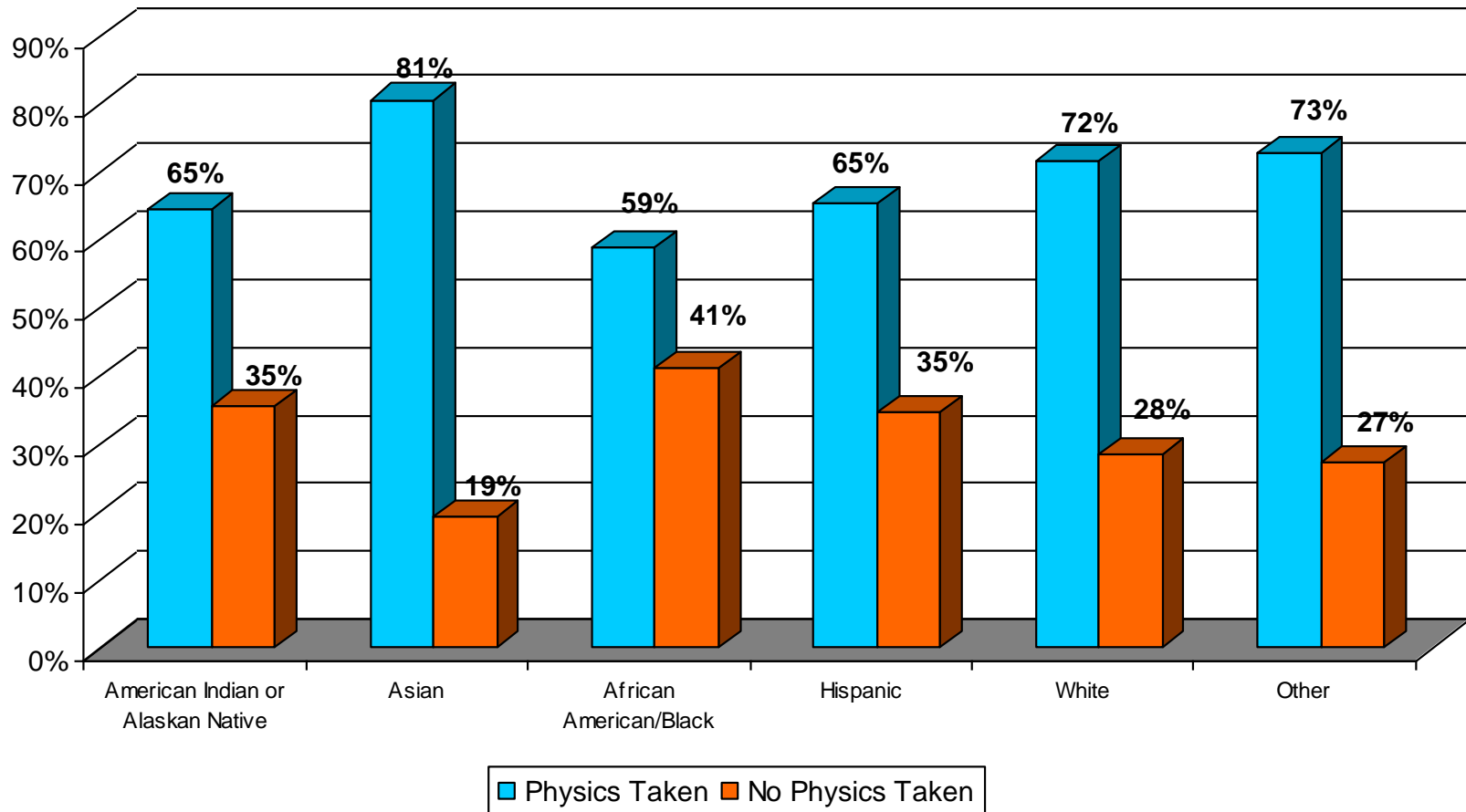


# Level of College Preparation by Ethnicity in the 2007 SAT<sup>®</sup> Cohort – Calculus Course Taken

Mean SAT Math Scores by Calculus Course Taken

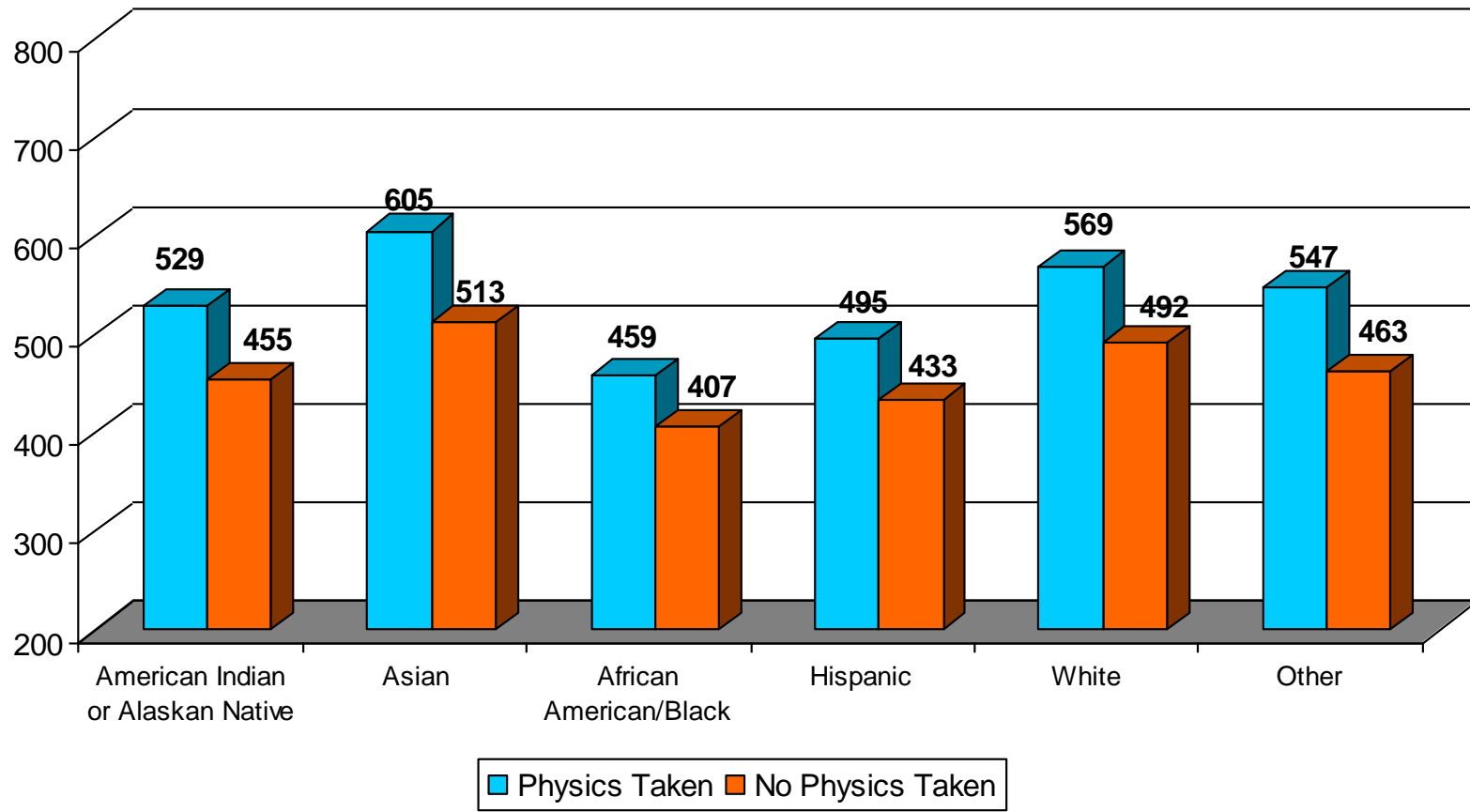


# Level of College Preparation by Ethnicity in the 2007 SAT<sup>®</sup> Cohort – Physics Course Taken

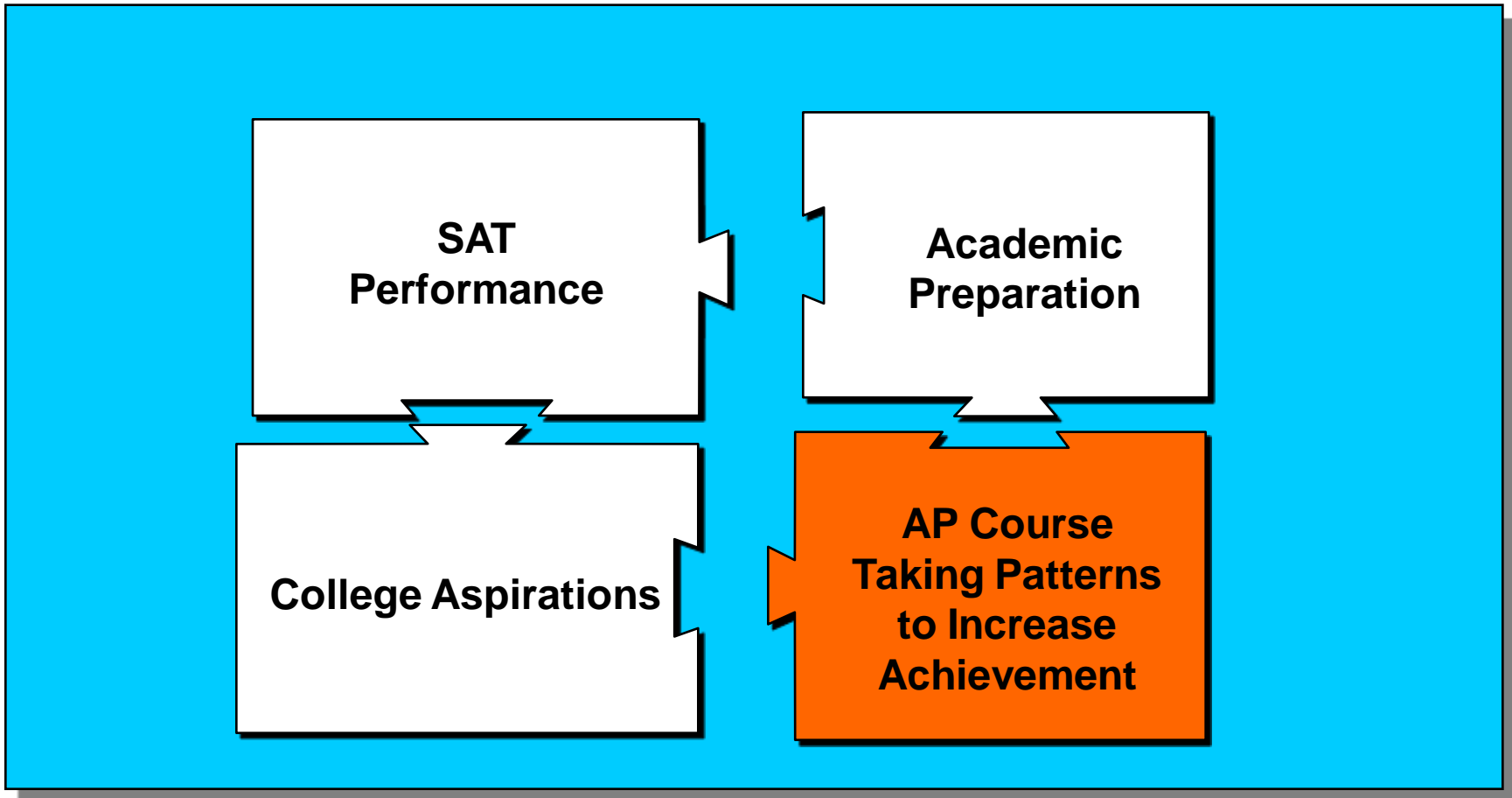


# Level of College Preparation by Ethnicity in the 2007 SAT<sup>®</sup> Cohort – Physics Course Taken

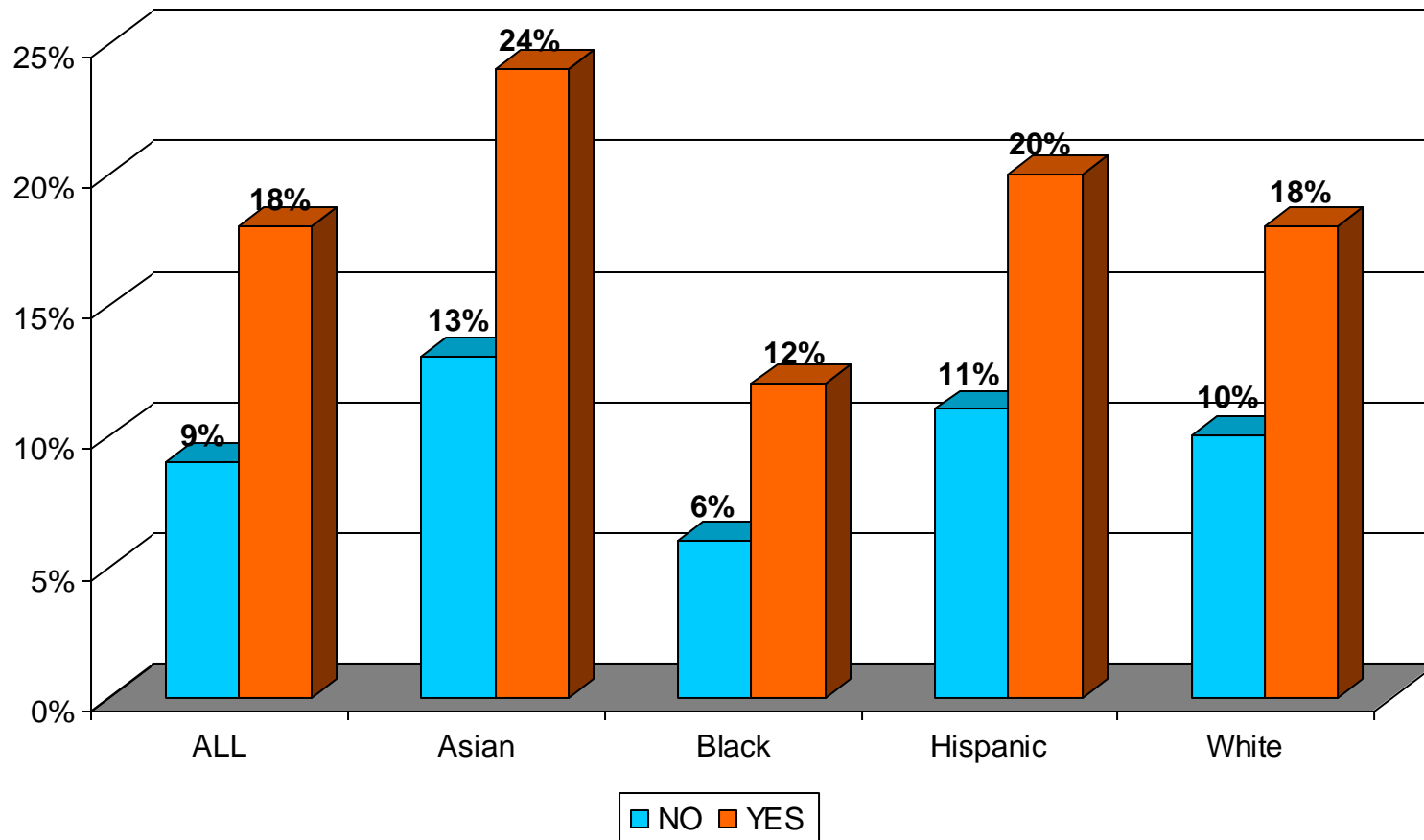
Mean SAT Math Scores by Physics Course



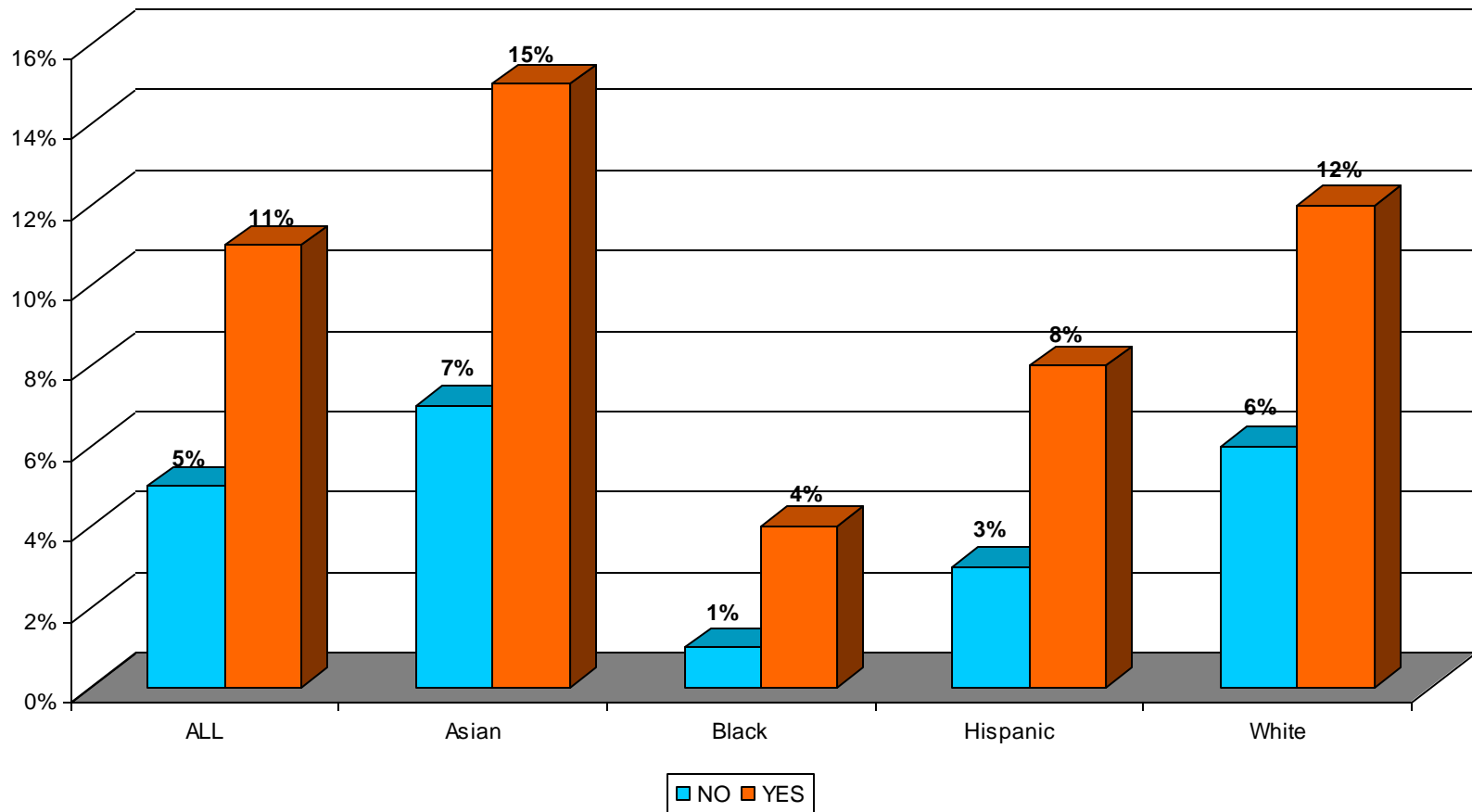
# AP Course Taking Patterns of Students in the 2007 SAT<sup>®</sup> Cohort



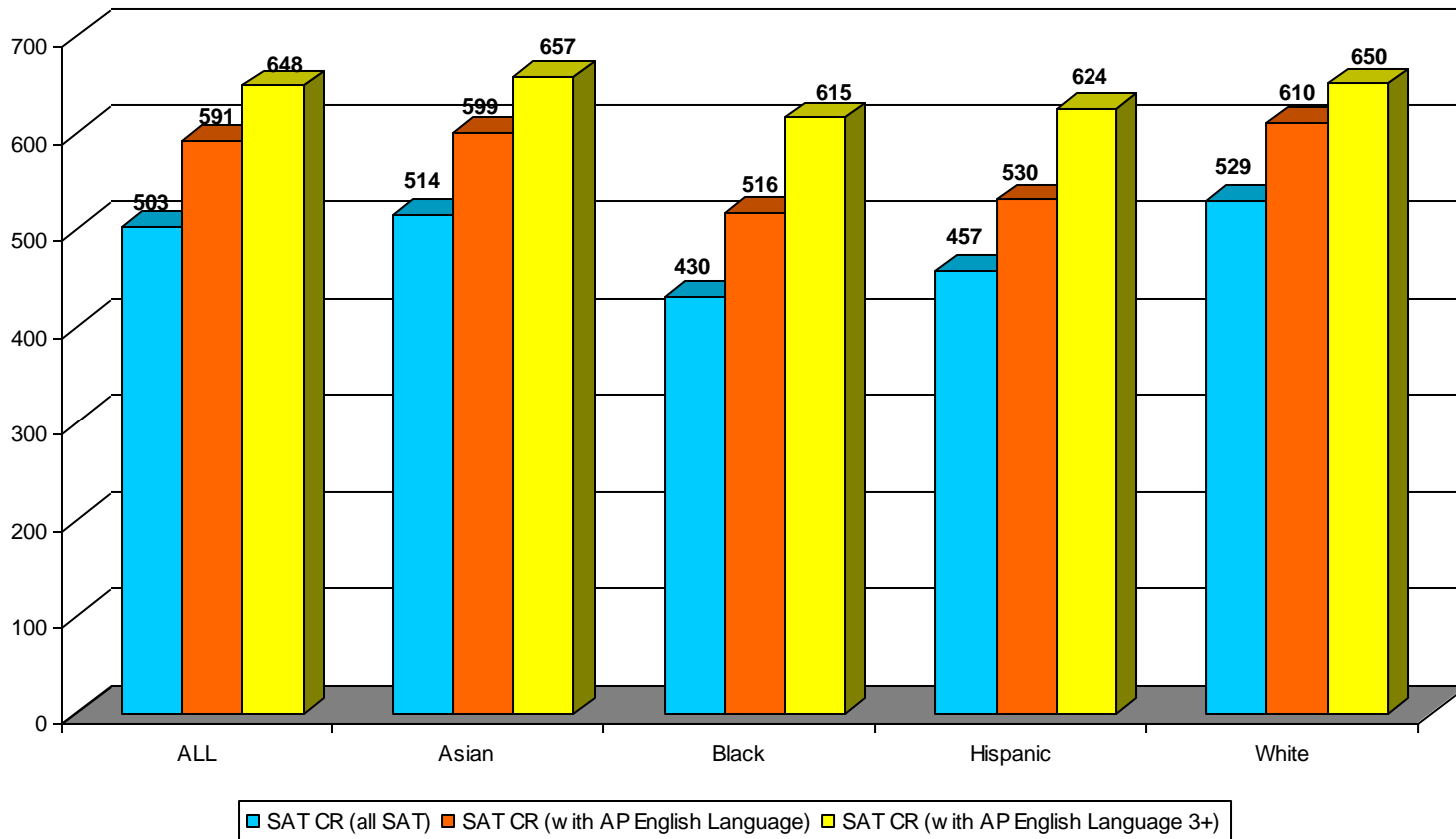
# Percent Taking AP English Language By Composition Indicator by Ethnicity



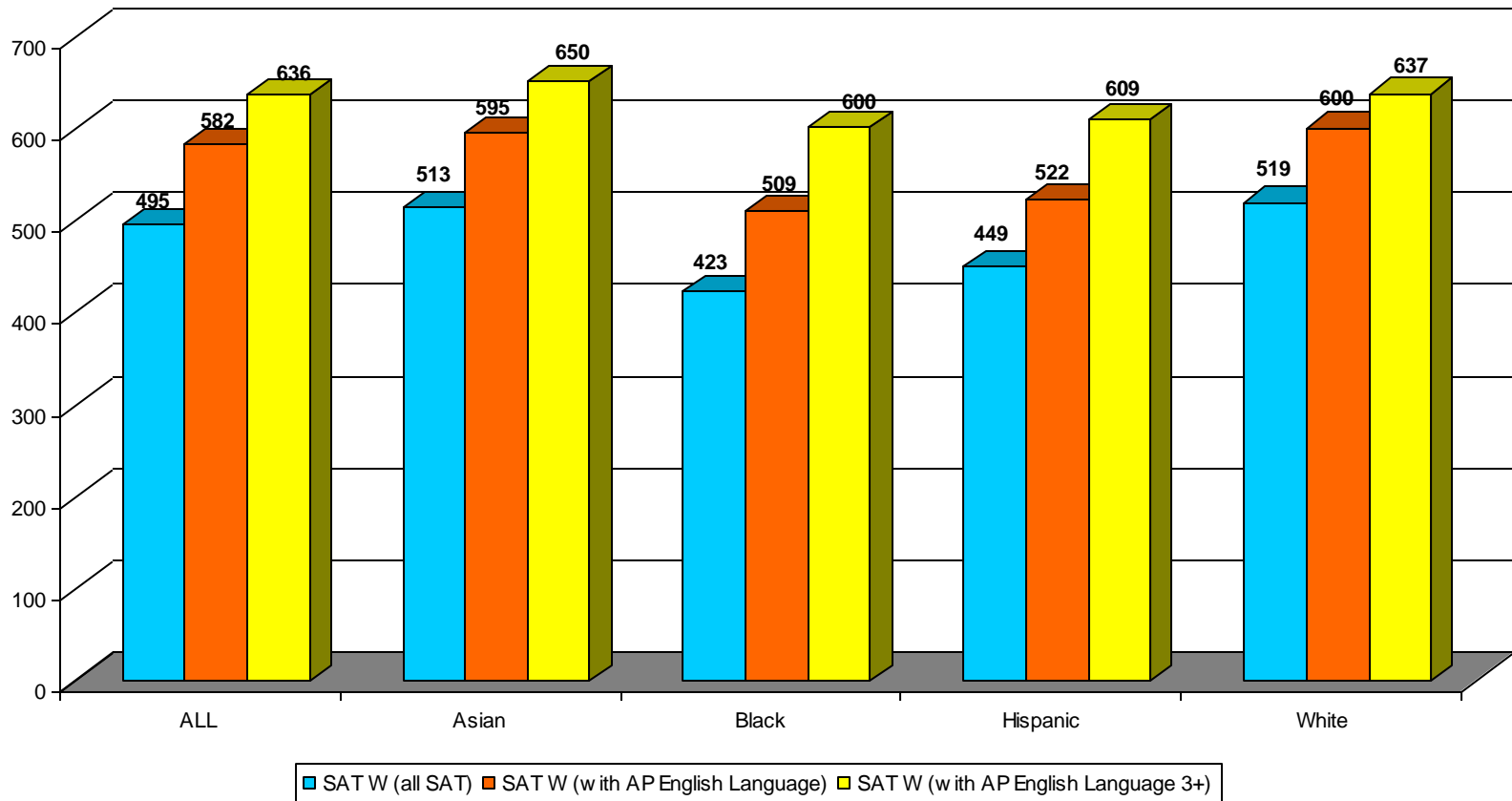
# Percent Taking AP English and Scoring 3+ By Composition Indicator By Ethnicity



# Average SAT CR Scores for Students Taking AP English Language By Ethnicity

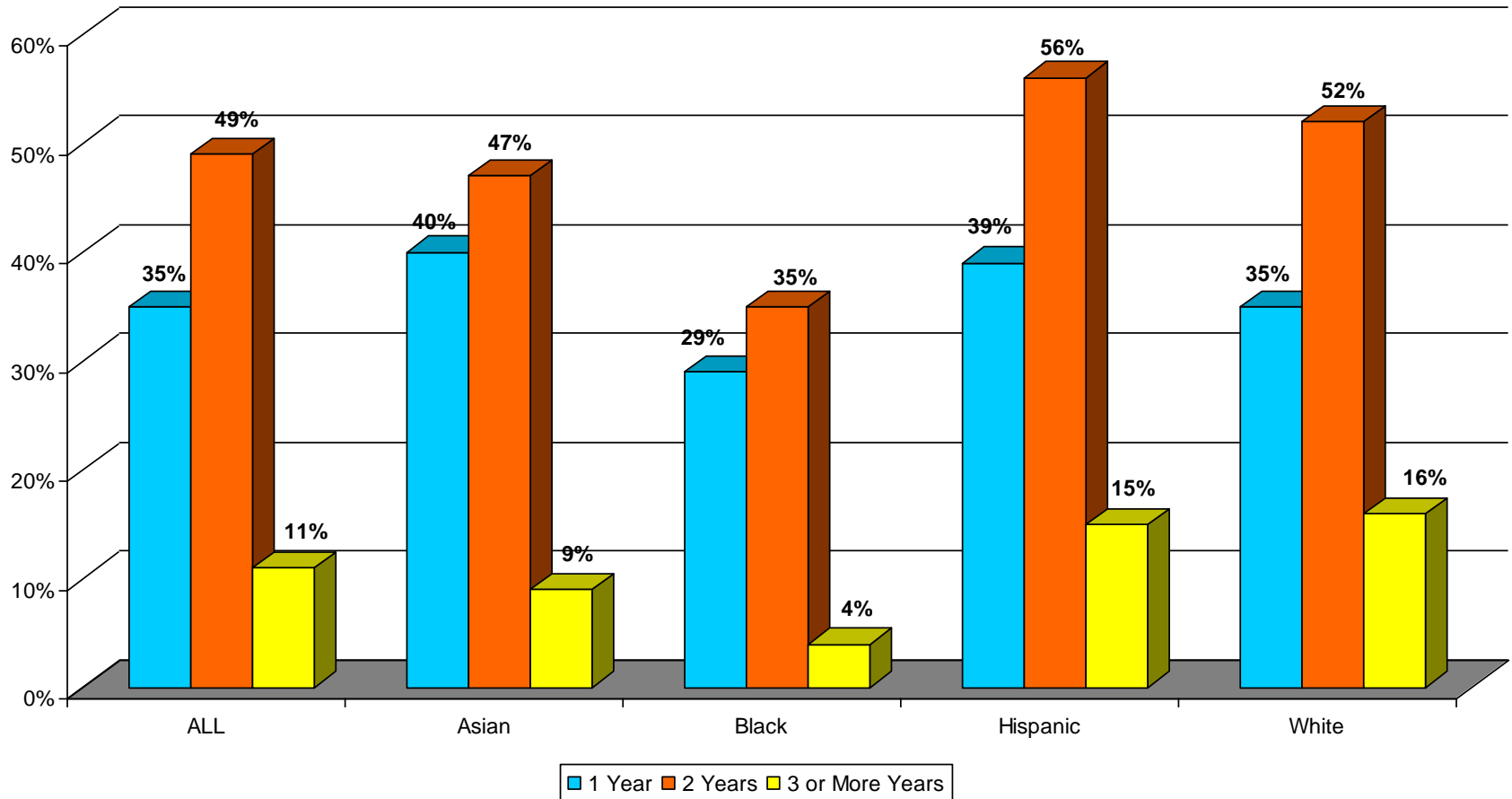


# Average SAT W Scores for Students Taking AP English Language By Ethnicity

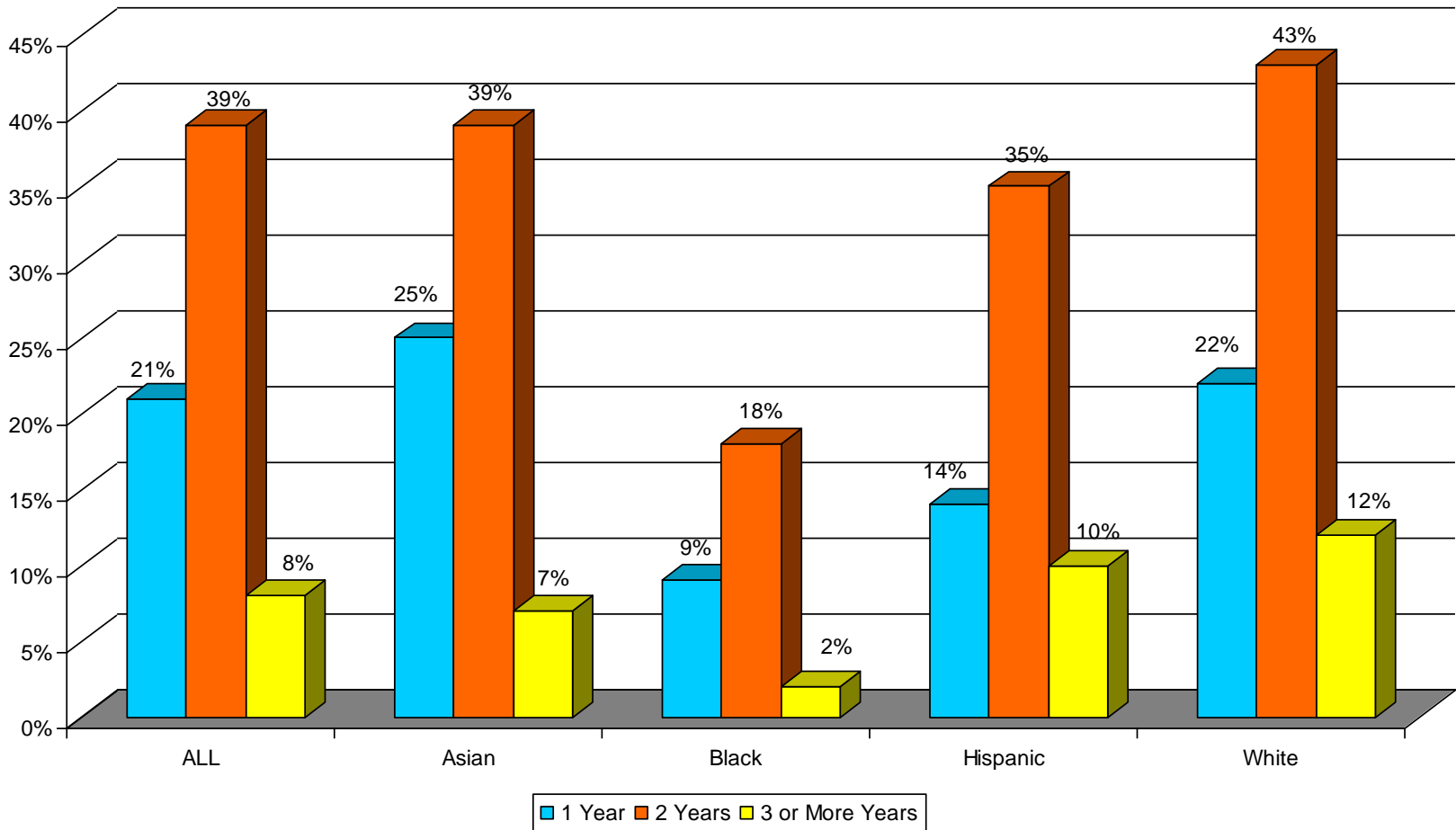




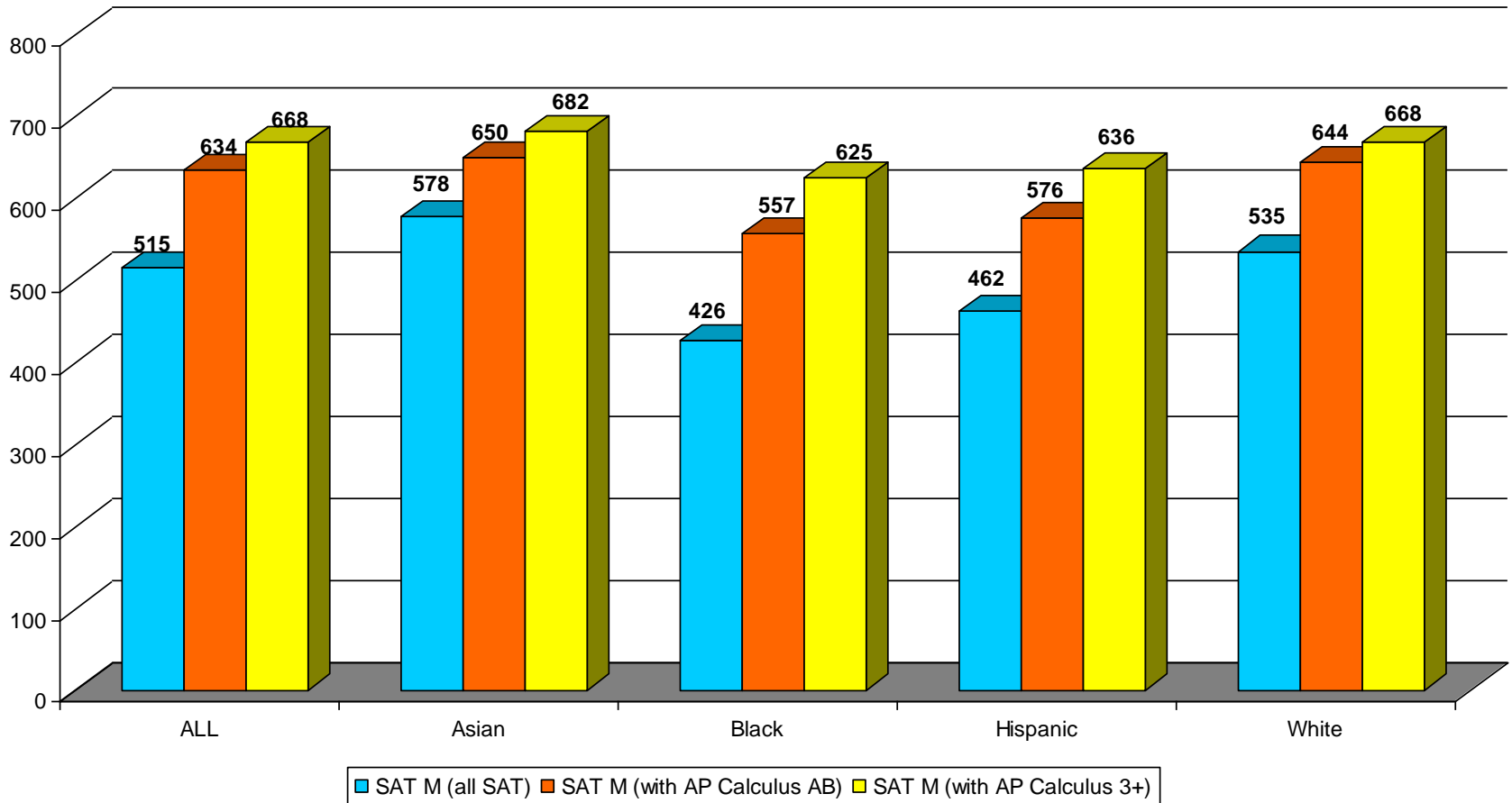
# Percent Taking AP Calculus AB By Number of Years of Calculus by Ethnicity



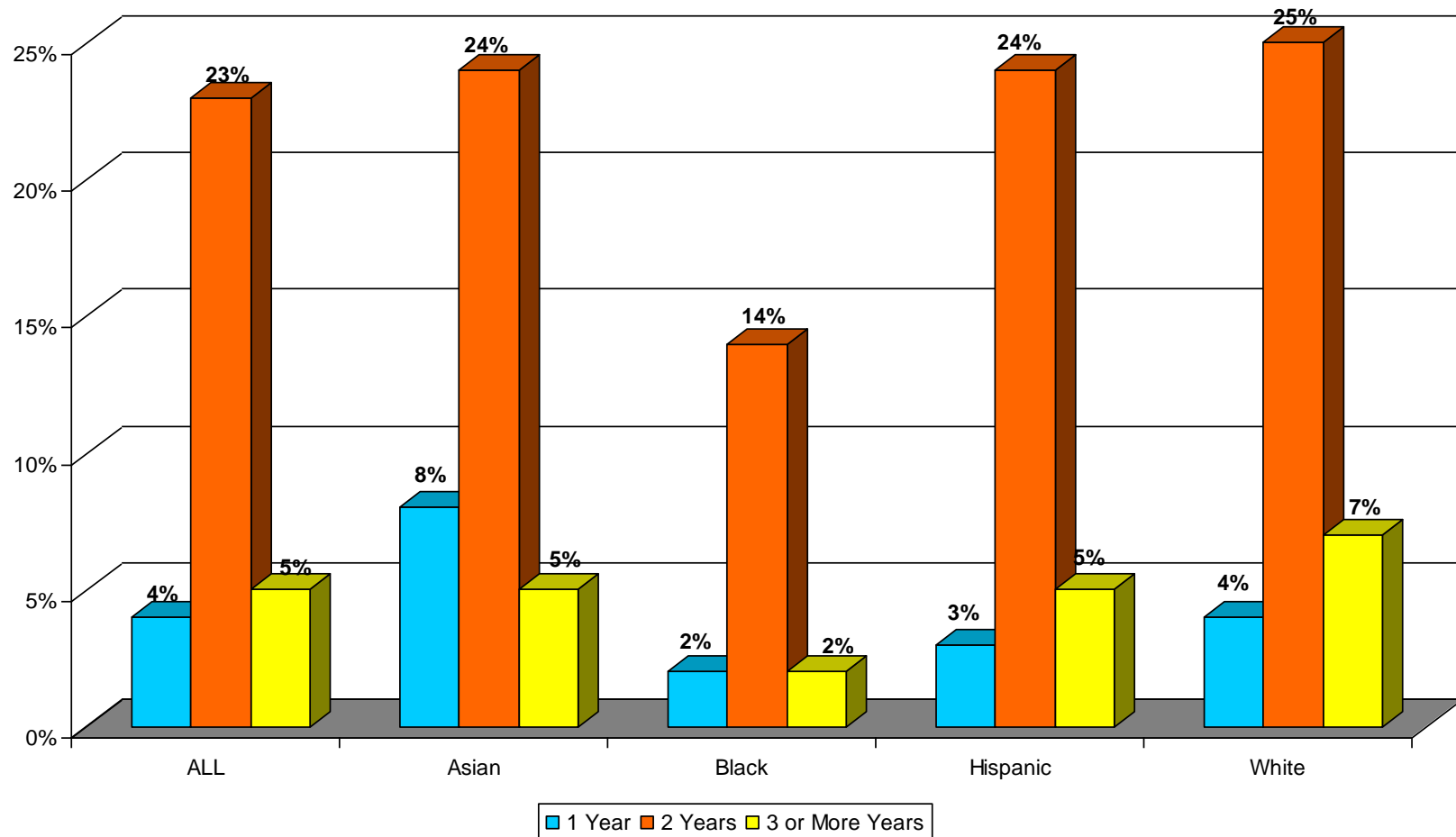
# Percent Taking AP Calculus AB and Scoring 3+ By Number of Years of Calculus By Ethnicity



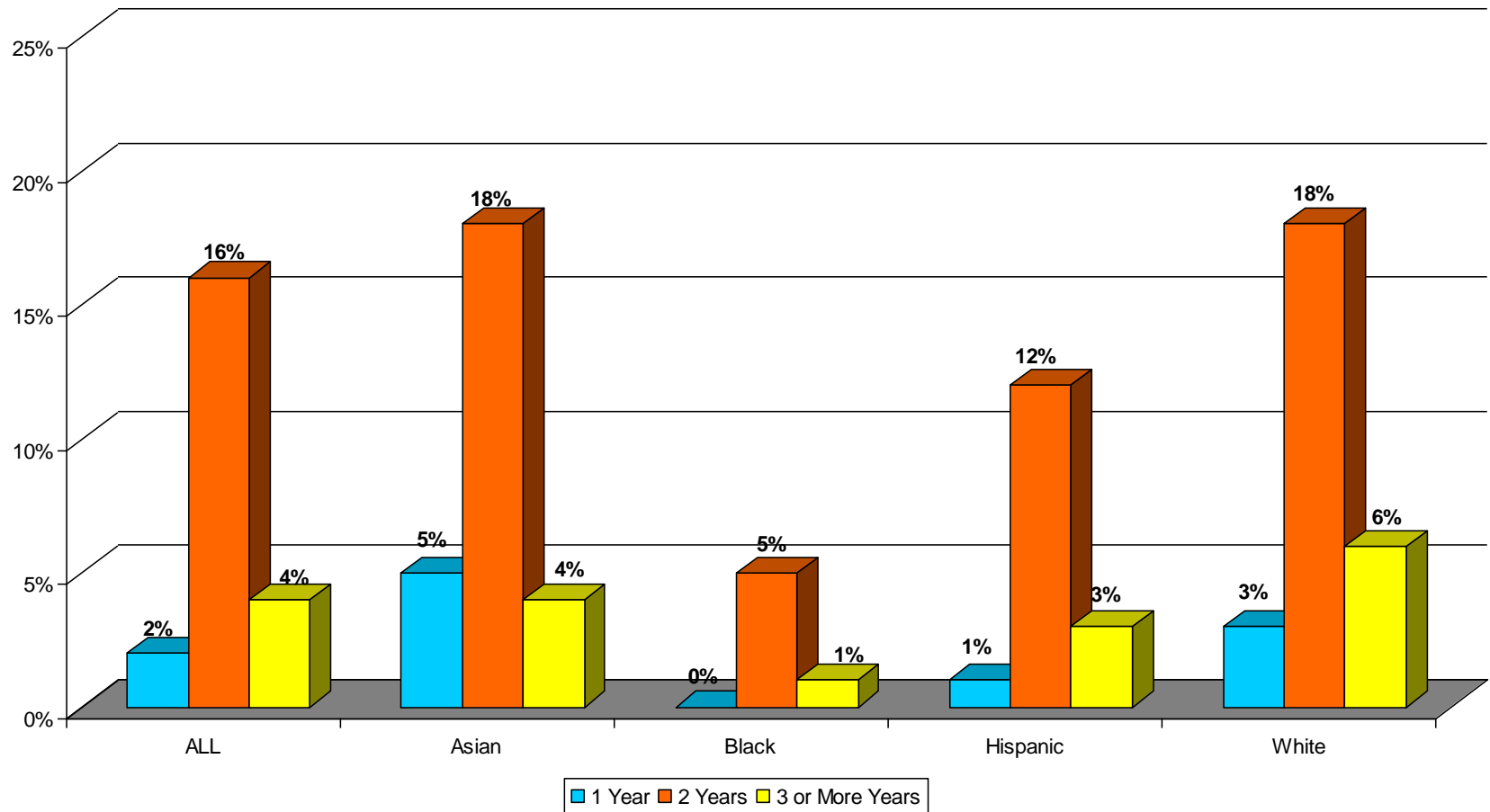
# Average SAT Math Scores for Students Taking AP Calculus AB By Ethnicity



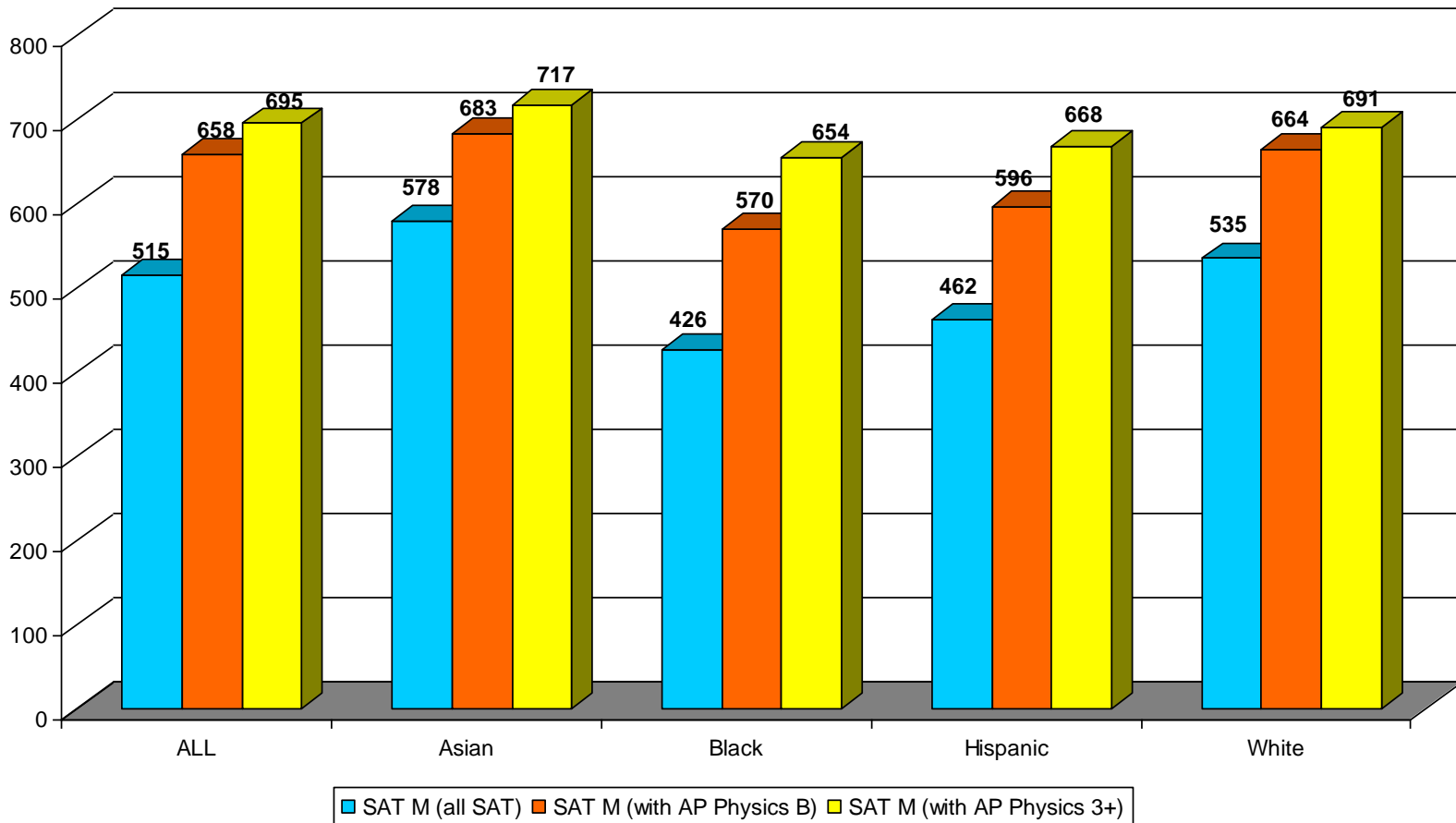
# Percent Taking AP Physics B By Number of Years of Physics by Ethnicity



# Percent Taking AP Physics B and Scoring 3+ By Number of Years of Physics By Ethnicity



# Average SAT Math Scores for Students Taking AP Physics B By Ethnicity



# Questions, Comments, Suggestions

- Researchers are encouraged to freely express their professional judgment. Therefore, points of view or opinions stated in College Board presentations do not necessarily represent official College Board position or policy.
- Please forward any questions, comments, and suggestions to:
  - [jlee@collegeboard.org](mailto:jlee@collegeboard.org) and/or
  - [esawtell@collegeboard.org](mailto:esawtell@collegeboard.org)