

**TODAY I WILL DO
WHAT OTHERS WON'T,
SO TOMORROW I CAN DO
WHAT OTHERS CAN'T**

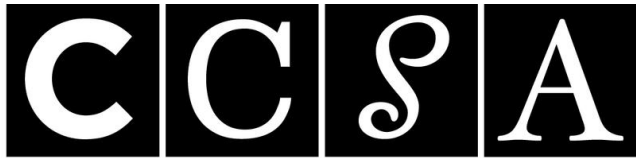
Palomar College GSFP Tutor Training Test Prep and Honors Courses



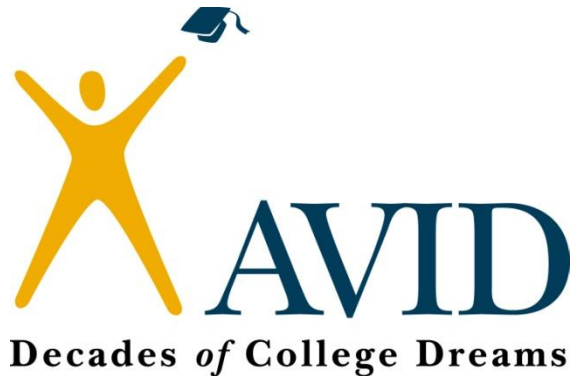
Jack Friedman
Study Smart Tutors Inc



TRiO



California
Charter Schools
Association

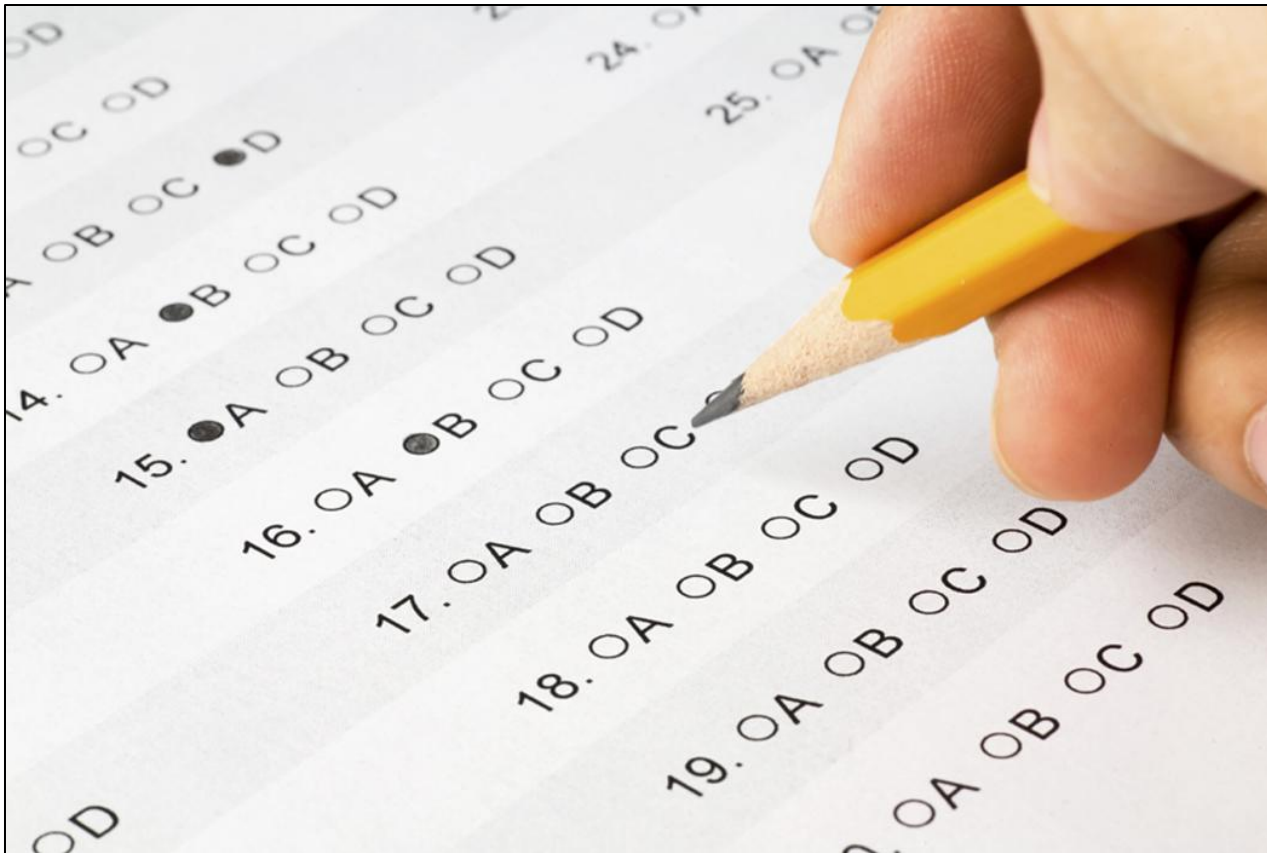




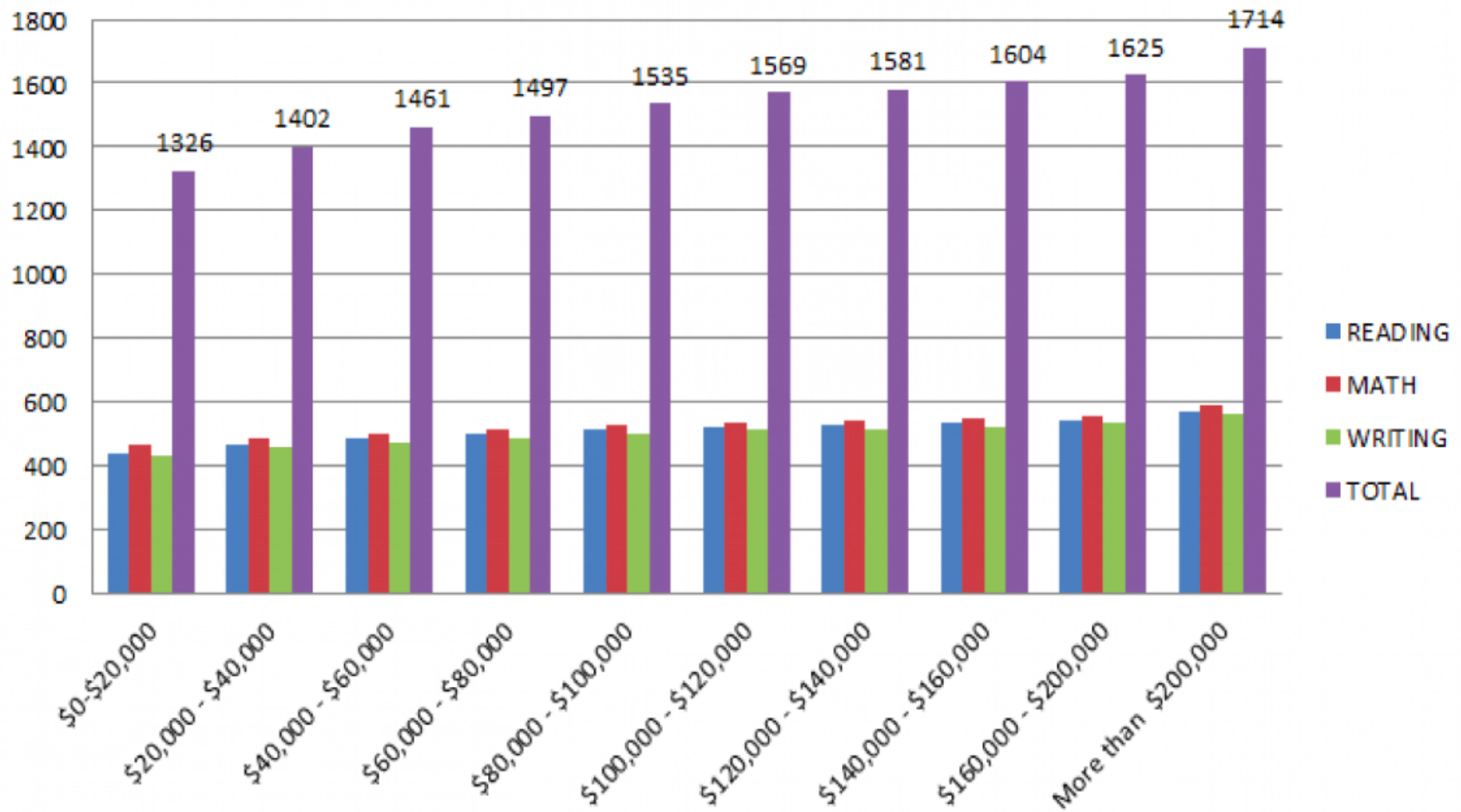


Warm Up

- What do tests like the SAT and ACT measure?

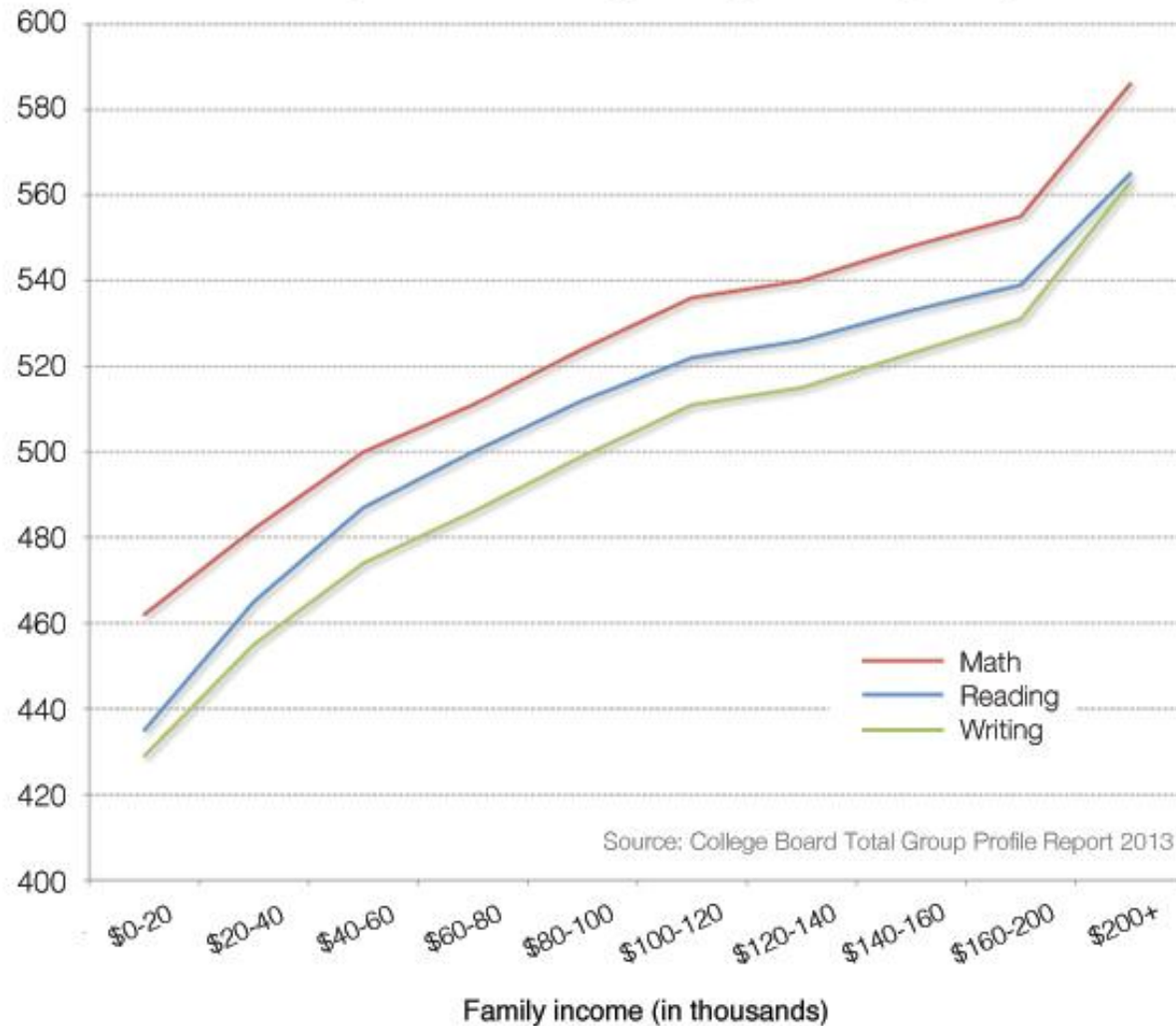


SAT scores by family income



Opportunity Gap

Average SAT Scores by Family Income (2013)



Standardized Exams & Family Income

Fewer than 9% of students with family incomes less than \$24,000 met all four college readiness benchmarks.

The Benchmark attainment level for students in the \$120,000–\$150,000 range is more than twice that for students in the \$50,000 to \$60,000 range.

Question

How many points on the SAT make the difference between a student being accepted or rejected from a certain university?

Answer

30 points

What am I currently doing to prepare students and families for these exams?





Old vs. New

OLD SAT	NEW SAT
<ul style="list-style-type: none"> Sentence Completions, emphasis on vocabulary 	<ul style="list-style-type: none"> NO Sentence Completions; however, there are 2 vocabulary in context questions in every reading passage
<ul style="list-style-type: none"> Math sections allowed calculators Math only tests up to Algebra II level “Trickier” math questions 	<ul style="list-style-type: none"> Only one of two sections permits calculators Math includes Trigonometry More straightforward math questions
<ul style="list-style-type: none"> Reading & Writing scores are separate 	<ul style="list-style-type: none"> Evidence Based Reading & Writing scores are combined
<ul style="list-style-type: none"> Scaled scores total 200- 800 for each section for a total possible 2400 points 	<ul style="list-style-type: none"> Scaled scores are 1- 40 & then converted to “area” scores of 200-800 for total of 1600 points.
<ul style="list-style-type: none"> 25- minute required essay integrated into writing scaled score 	<ul style="list-style-type: none"> 50-minuted optional essay is scored separately
<ul style="list-style-type: none"> Guessing Penalty (-1/4 point for wrong answers) 	<ul style="list-style-type: none"> No guessing penalty
<ul style="list-style-type: none"> No emphasis on Science questions 	<ul style="list-style-type: none"> Science-related topics tested in all sections
<ul style="list-style-type: none"> No charts/graphs/tables 	<ul style="list-style-type: none"> Charts/graphs/tables in Math, EB Reading, EB Writing

	<u>ACT</u>	<u>NEW SAT (2016)</u>
Length	3 hours 25 minutes	3 hours 50 minutes (w/ essay)
Sections	4 Sections (+1 optional essay)	4 Sections (+1 optional essay)
Areas Tested	English, Math, Science, Reading (Optional Writing)	Evidence Based Reading, Evidence Based Writing, Math
Reading Comparison	4 Passages, 10 questions per passage	5 passages, 9 -11 questions per passage
Science Comparison	Science Reasoning (READING COMP)	Science reasoning in Math & Reading
Math Comparison	1/4 of overall score,	1/2 of overall score
Essay Comparison	Optional, last section, 30 min	Optional, 50 minutes
Scoring	1-36, 21 is national average	200-800 ,1500 was the average
Guessing Penalty	None	None
How to Prepare	Content is difficult but straightforward	Content now more straightforward
Great for students who are...	Good writers, strong readers, “book- smart”, students who have a strong foundation in each subject	Same as ACT.

THE REDESIGNED

SAT[®]

The first administration of the redesigned SAT® will be in spring 2016.

Today's 11th graders will be the first to take the redesigned SAT.

NEW SAT Content

Sections	Time	Number of Questions
Reading	65 minutes	52 questions
Writing & Language Test	35 minutes	44 questions
Math (no calculator)	25 minutes	20 questions
Math (calculator permitted)	55 minutes	37 questions (1 Extended Question)
Essay (Optional)	50 minutes	1 question

Timeline for SAT-ACT Changes

December
2014

March
2015

Spring/Fall
2015

October
2015

January
2016

March
2016

Practice
PSATs
released

Practice
SATs
released;
College
Board
book to
follow

Digital
ACT and
ACT
changes

New PSAT
for Class
of 2017
and 2018

Final old
SAT

New SAT
released
First digital
SAT

Class of 2017 (rising sophomores) will straddle the old and new SAT. Many will take practice exams to determine their optimal test.

Why?

A close-up, slightly blurred photograph of two yellow wooden pencils. The pencil in the foreground is angled from the bottom left towards the top right and has the words "ACT or SAT" printed in blue capital letters. To its right, another pencil is partially visible, showing the letters "HB". The background is out of focus, showing a white surface and a red object.

ACT or SAT HB

Competition

8 Key Changes to the SAT



Relevant words
in context



Command of
evidence



Essay analyzing a
source



Math focused on
three key areas



Problems grounded in
real-world contexts



Analysis in science
and social studies



Founding documents
and great global
conversation



No penalty for
wrong answers



**KEEP
CALM
AND
TAKE A
GUESS**

The SAT:

Old vs. New

Old (Current)

The consumer advocate claimed that while drug manufacturers _____ the supposed advantages of their proprietary brands, generic versions of the same medications are often equally _____.

- (A) tout . . efficacious
- (B) research . . innocuous
- (C) market . . prohibitive
- (D) laud . . counterproductive
- (E) extract . . prescriptive

New (2016)

[. . .] As Kingman developed as a painter, his works were often compared to paintings by Chinese landscape artists dating back to CE 960, a time when a strong tradition of landscape painting emerged in Chinese art. Kingman, however, vacated from that tradition in a number of ways, most notably in that he chose to focus not on natural landscapes, such as mountains and rivers, but on cities. [. . .]

(The following question relates to the underlined portion in the excerpt above.)

- (A) NO CHANGE
- (B) evacuated
- (C) departed
- (D) retired

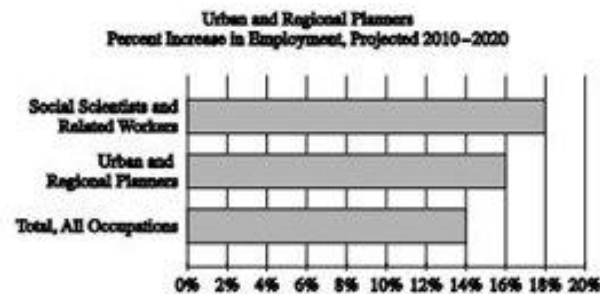
INFOGRAPHIC BY JOHN WEI
SOURCE: COLLEGEBOARD

Interpreting Charts

Which choice completes the sentence with accurate data based on the graph?

- A) NO CHANGE
- B) warning, however, that job growth in urban and regional planning will slow to 14 percent by 2020.
- C) predicting that employment of urban and regional planners will increase 16 percent between 2010 and 2020.
- D) indicating that 14 to 18 percent of urban and regional planning positions will remain unfilled.

[...] Transportation planners perform critical work within the broader field of urban and regional planning. As of 2010, there were approximately 40,300 urban and regional planners employed in the United States. The United States Bureau of Labor Statistics forecasts steady job growth in this field, projecting that 16 percent of new jobs in all occupations will be related to urban and regional planning. Population growth and concerns about environmental sustainability are expected to spur the need for transportation planning professionals.



Founding Documents



Use a mechanical pencil. If you change your response, it will be marked wrong and your score will be affected.

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1 ESSAY 1

Time — 25 minutes

Turn to page 2 of your answer sheet to write your ESSAY.

The essay gives you an opportunity to show how effectively you can develop and express ideas. You will be scored on the quality of your ideas, the logic and organization of your writing, and the language and style of your writing. You will be scored on the content of your writing, not on the form. You will be scored on the content of your writing, not on the form.

Your essay must be written on the lines provided on your answer sheet. You will have enough space to write on every line. Remember that people who read your writing will be looking for ideas that are clear and logical. You are writing is legible to the reader.

Important:

If you do not write an essay, you will receive a score of zero. If you write an essay, you will receive credit only for what you write on your answer sheet.

If you receive a score of zero, your score will be zero.

Your essay must reflect your original and individual work. Your scores for the entire test may be canceled. An electronic copy of your essay will be made available to each of your designated score recipients: colleges, universities, and scholarship programs.

You have twenty-five minutes to write an essay on the topic assigned below.

Think carefully about the issue presented in the following excerpt and the assignment below.

A colleague of the great scientist James Watson remarked that Watson was always "lounging around, arguing about problems instead of doing experiments." He concluded that "There is more than one way of doing good science." It was Watson's form of idleness, the scientist went on to say, that allowed him to solve "the greatest of all biological problems: the discovery of the structure of DNA." It is a point worth remembering in a society overly concerned with efficiency.
Adapted from John C. Polanyi, "Understanding Discovery"

Redesigned Math

$$\text{Math Anxiety} = \text{Test Anxiety} \left(\text{Fear of numbers} + \text{Fear of unknown} \right)$$

Redesigned Math



Redesigned Math

EXAMPLE 1

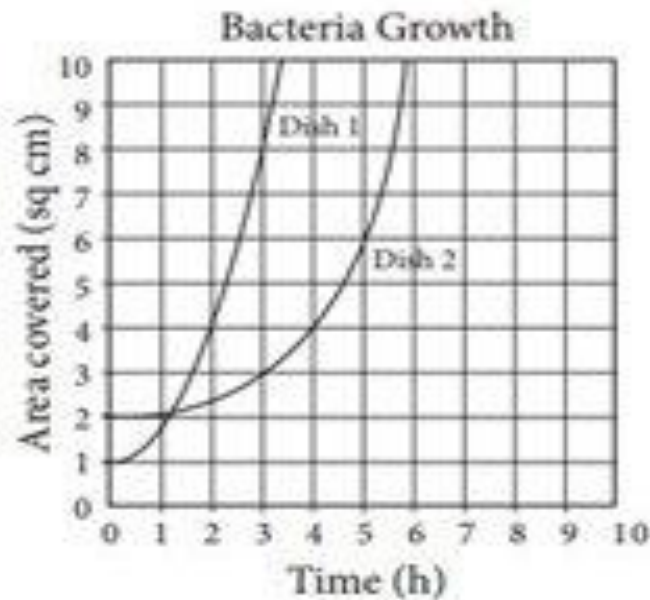
When a scientist dives in salt water to a depth of 9 feet below the surface, the pressure due to the atmosphere and surrounding water is 18.7 pounds per square inch. As the scientist descends, the pressure increases linearly. At a depth of 14 feet, the pressure is 20.9 pounds per square inch. If the pressure increases at a constant rate as the scientist's depth below the surface increases, which of the following linear models best describes the pressure p in pounds per square inch at a depth of d feet below the surface?

- A) $p = 0.44d + 0.77$
- B) $p = 0.44d + 14.74$
- C) $p = 2.2d - 1.1$
- D) $p = 2.2d - 9.9$

Redesigned Math

The preceding graph shows the amount of protein supplied by five different food products, *A*, *B*, *C*, *D*, and *E*, as a percentage of their total weights. The costs of 10 grams of products *A*, *B*, *C*, *D*, and *E* are \$2.00, \$2.20, \$2.50, \$4.00, and \$5.00, respectively. Which of the five food products supplies the most protein per dollar?

- A. *A*
- B. *B*
- C. *C*
- D. *E*



A researcher places two colonies of bacteria into two petri dishes that each have area 10 square centimeters. After the initial placement of the bacteria ($t = 0$), the researcher measures and records the area covered by the bacteria in each dish every ten minutes. The data for each dish were fit by a smooth curve, as shown above, where each curve represents the area of a dish covered by bacteria as a function of time, in hours. Which of the following is a correct statement about the data above?

ACT Basics



**1 Point Per
Correct Answer**

**No Guessing
Penalty**

**All Questions
Worth the Same**

When is the ACT Offered?

The 2015-2016 test dates and registration deadlines can be found by visiting ACT's website

ACT Exams Offered in...

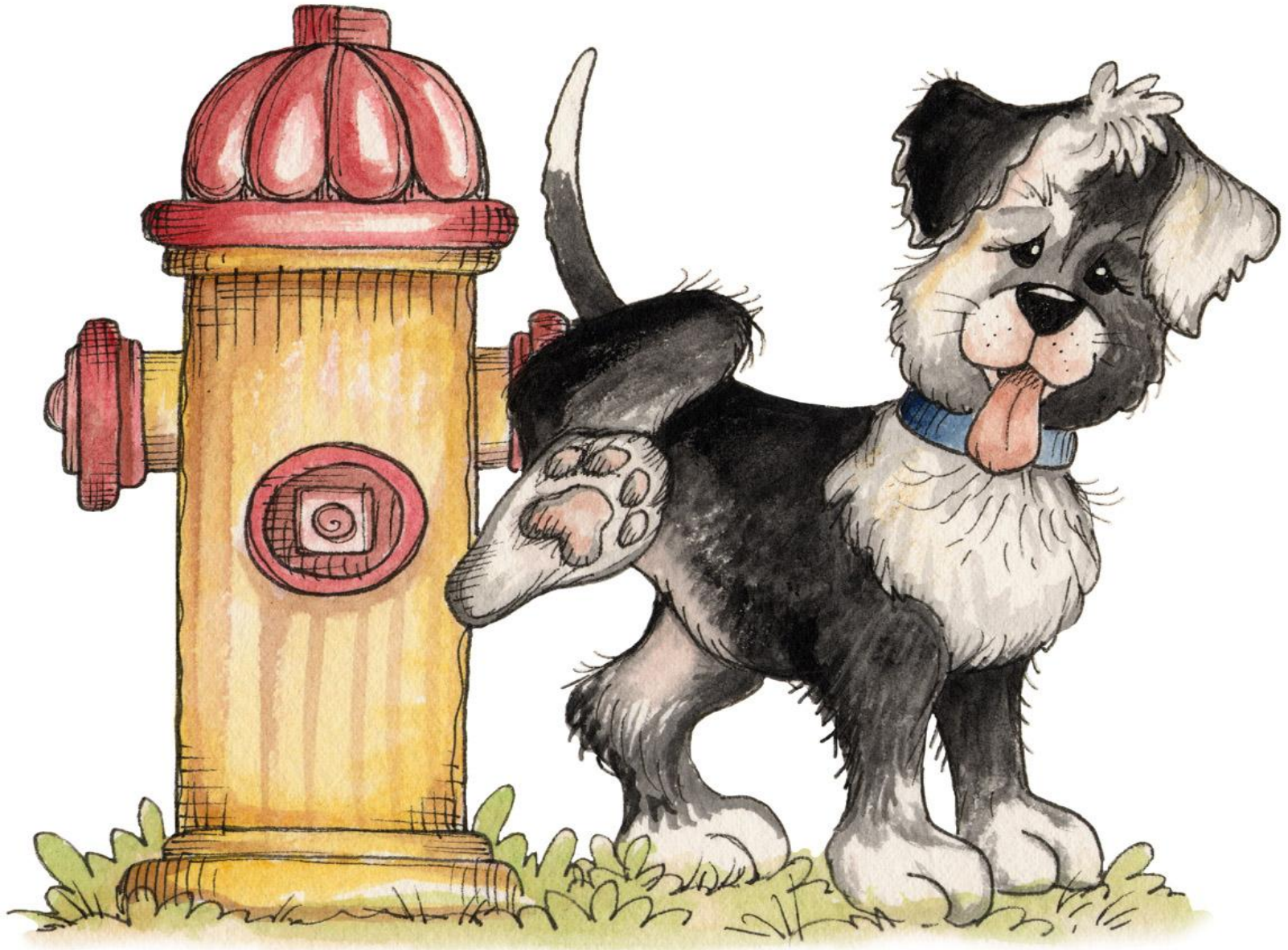
1. September
2. October
3. December
4. February
5. April
6. June

The Four ACT Tests

Section	# questions	Time	ACT College Readiness Benchmark
<i>English</i>	75	45	18
<i>Math</i>	60	60	22
<i>Reading</i>	40	35	21
<i>Science</i>	40	35	24
<i>Optional Writing Test</i>	1 essay	30	

Test-Taking Tips

The Test Booklet:



What challenges will our students face?



Helping Students Build Confidence

Here is a “Difficult” Math Question...

35. Cindy walked to work at an average speed of 6 miles an hour and biked back along the same route at 10 miles per hour. If her total traveling time was 2 hours, how many miles is it from her house to work?

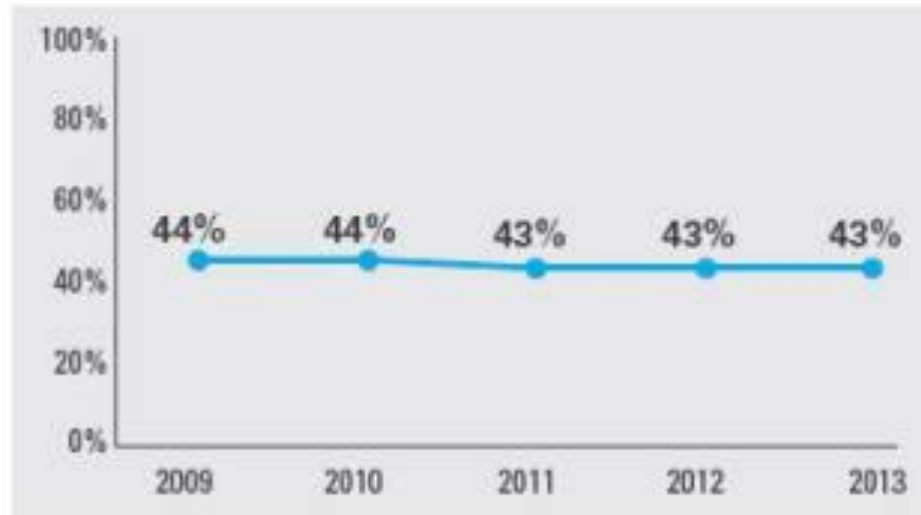
- A. 6
- B. 6.25
- C. 7.5
- D. 8
- E. 10

A person in a dark shirt and pants is pushing a large, smooth, reddish-brown boulder up a rocky hill. The boulder is the central focus, and the person is positioned to its right, leaning against it. The background is a bright blue sky with scattered white clouds. The overall scene conveys a sense of effort and overcoming a challenge.

Your
biggest
challenge?

SAT Prep = College Readiness

The SAT College and Career Readiness Benchmark



43%

Met the SAT Benchmark

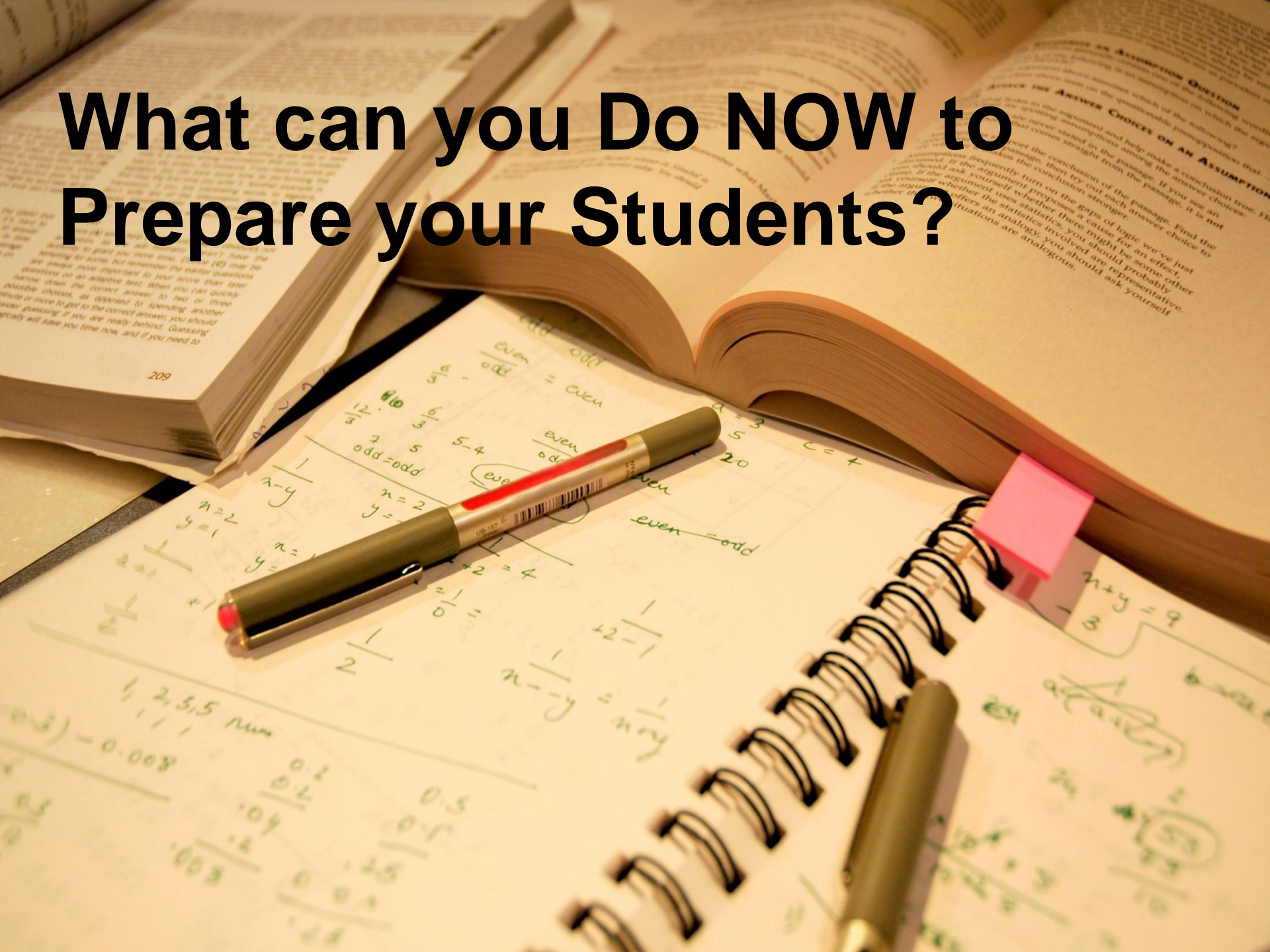
57%

Did Not Meet the SAT Benchmark

My role

is

What can you Do NOW to Prepare your Students?



Build Skills NOW



What We Should Be Doing Now...



Free Resources



Will This Be Effective?



*It's not which test you teach, but
how you teach that matters*

Setting Goals

**“I want to do well on the
ACT/SAT”**

Setting Goals

**“I want to do well in my
biology class”**

Setting Goals

HS Biology

I want an A

An A means 90%+

How do I track my progress?

SMART GOALS

Specific

Measurable

Attainable

Results-
Based

Timed

ACT PREP GOALS

UC Riverside

Average ACT Composite = 25

Math, Reading, English, Science

Math Raw = 43, Reading Raw = 29

Test PREP GOALS

1. What schools do I want to go to?
2. What SAT scores do those schools typically require?
3. *How many questions do I need to answer correctly in each section?*

<i>Scaled Score</i>	<i>English (75 questions)</i>	<i>Math (60 questions)</i>	<i>Reading (40 questions)</i>	<i>Science (40 questions)</i>
36	75	60	40	40
35	73-74	59	39	39
34	71-72	58	38	-
33	70	56-57	37	38
32	69	55	36	37
31	67-68	54	35	-
30	66	52-53	34	36
29	65	50-51	32-33	35
28	63-64	48-49	31	33-34
27	62	45-47	30	32
26	60-61	42-44	29	30-31
25	58-59	40-41	27-28	28-29
24	56-57	37-39	26	26-27
23	54-55	35-36	24-25	25
22	52-53	33-34	23	23-24
21	49-51	31-32	22	21-22
20	46-48	29-30	20-21	19-20
19	43-45	26-28	19	18
18	41-42	24-25	18	16-17
17	39-40	21-23	16-17	15
16	36-38	17-20	15	14
15	33-35	14-16	14	13
14	30-32	11-13	12-13	12
13	28-29	9-10	11	11

Reflect

How can I implement this goal setting lesson with my students?



**“Everyone’s
got a plan**




**Until they
get hit.”**

-Mike Tyson



Discussion

- In your IDEAL world, what tools will your students bring to the ACT and SAT?
 - What steps will I take to get them there?



"The greatest danger for most of us
is not that our aim is too high
and we miss it
but that it is too low
and we reach it."

Michelangelo

What are the most common AP
or Honors Classes

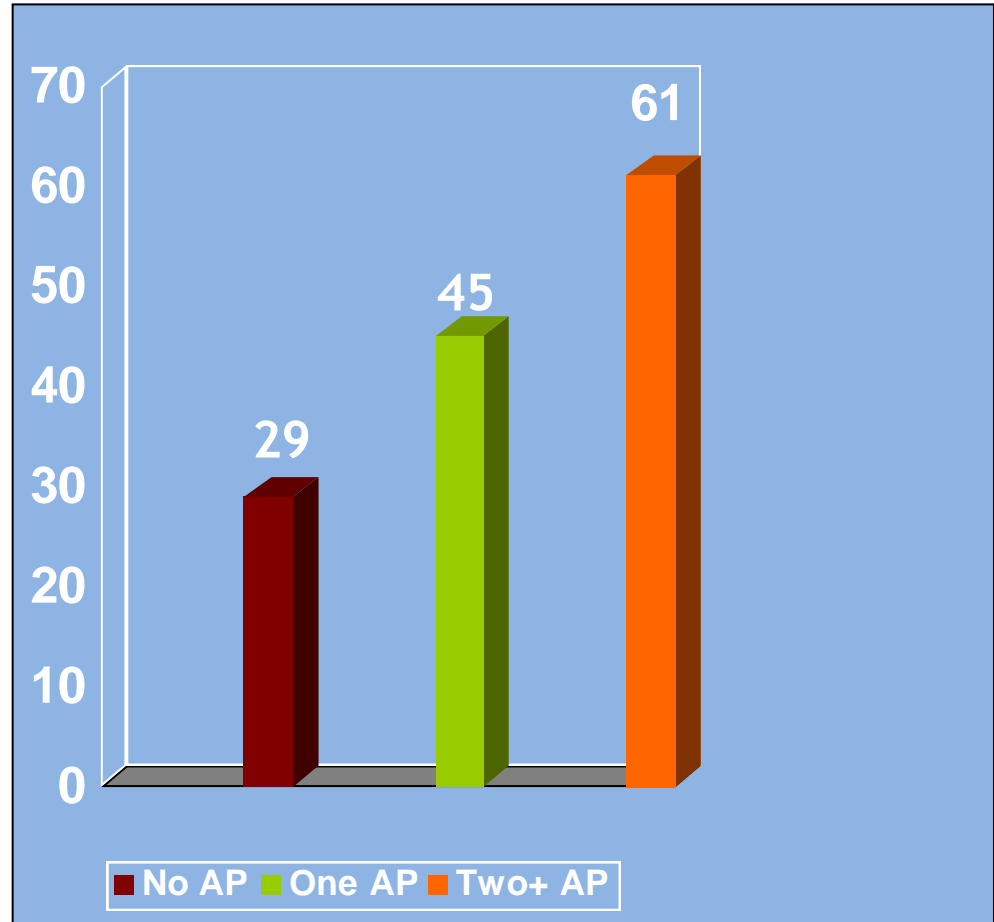
**Advanced Placement Program[®]
(AP[®]) courses gives students a head
start on college.**

Taking the end-of-course **AP Exam** sends
a powerful message to colleges and universities
that a student is ready for them, and can enable
students to gain admission, college credit, and
placement into advanced courses.

AP and College Success

Students who take AP courses and exams are much more likely than their peers to complete a bachelor's degree in four years or less.

Source: Camara, Wayne (2003). College Persistence, Graduation, and Remediation. *College Board Research Notes (RN-19)*. New York, NY: College Board.



AP Exam Content *pg. 4*

- Most exams last around 3 hours, and contain a free response and multiple-choice section.

The **AP English Language & Composition Exam** contains the following:

Sections	Time	# of Questions	% of Exam Score
Part I: Multiple Choice	60 minutes	60 multiple choice	45%
Part II: Reading/Planning	15 minutes	Variable # of sources	55%
Part III: Essay Questions	120 minutes	3 Essay Prompts	

The **AP English Literature & Composition Exam** contains the following:

Sections	Time	# of Questions	% of Exam Score
Part I: Multiple Choice	60 minutes	60 multiple choice	45%
Part II: Essay Questions	120 minutes	3 Essay Prompts	55%

AP Exam Content pg. 4

The **AP World History Exam** contains the following:

Sections	Time	# of Questions	% of Exam Score
Part I: Multiple Choice	55 minutes	70 multiple choice	50%
Part II: DBQ	50 minutes	1 Question	50%
Part III: Change over Time Essay	40 minutes	1 Essay Prompt	
Part IV: Comparative Essay	40 minutes	1 Essay Prompt	

The **AP United States History Exam** is divided into 4 sections. The sections are represented by the table below:

Sections	Time	# of Questions	% of Exam Score
Part I: Multiple Choice	55 minutes	55 multiple choice	40%
Part II: Short Answer	50 minutes	4 short answer	20%
Part III: DBQ	60 minutes	1 Document-Based Question	25%
Part IV: Long Essay	35 minutes	1 Essay Prompt	15%

AP Scoring

How are the AP Exams scored?

The multiple-choice sections of each AP exam are scored by machine, but the free response sections are scored by college faculty and AP teachers.

A generalized AP free response scale shows how the AP free responses can total “9.”

Both the free response section and the multiple-choice raw score are multiplied by a number to total a “composite” score, which is equivalent to a scaled score 1-5.

AP Score	Qualification
5	Extremely well qualified
4	Well qualified
3	Qualified
2	Possibly qualified
1	No recommendation

AP Examination Grades

5 - Extremely Well Qualified

Statistically equates to high A's in the comparable college course

4 - Well Qualified

Statistically equates to low A's and high B's in the comparable college course

3 - Qualified

Statistically equates to low B's and high C's in the comparable college course

2 - Possibly Qualified

Statistically equates to low C's and high D's in the comparable college course

1 - No Recommendation

When will students take AP Exams?

- The AP Exams are typically scheduled during the 1st few weeks in May.
- There are no “make up” dates, but students may sign up the following year.
- Students should backwards plan test preparation based on these dates.

AP Exams and Their Importance

Fill out the KWL chart & share what you want to know more about with a partner.

End





Our Challenges?



NOT AN EXPERT

Syllabus Scavenger Hunt

- Use the syllabus for your AP (or other) class to fill out the syllabus scavenger hunt.



Time Management for Tests



Order of Difficulty?

Some AP multiple-choice sections get increasingly difficult as you move to the end of the section.

Other AP exams (such as English Language & Literature) have challenging and easy problems mixed throughout the section.

You should *always* answer the easy questions for easy points.

Be Quick But Don't Hurry

- On the AP exams, every multiple-choice question is *worth the same amount!* Don't rush through the easy questions to get to the harder ones. You don't have to answer every question, but you should answer every question you know to answer.
 - Over time, develop a strategy where you can approach as many questions as possible *accurately*, and then guess on those questions you have identified as “impossible” or difficult.
-

Put Questions in Three Categories

Bloody Nose
(doable right now)

Emergent

Urgent

Semiurgent

Nonurgent

Put Questions in Three Categories

Stomach Ache
(doable but will
take time)

Emergent

Urgent

Semiurgent

Nonurgent

Put Questions in Three Categories

Heart Attack

(too late to do anything)

Emergent

Urgent

Semiurgent

Nonurgent

Tips for Answering Multiple-Choice Questions on the AP Exams

3. Keep in mind that being somewhat familiar with an answer choice does not automatically imply that the said choice is the correct answer.

4. Check for “umbrella choices”, which are answer choices that contain other choices.

5. Practice cover and predict. (cover the answer choices w/ your hand, predict the answer, then try to match your answer w/ the choices).

6. Be suspicious of answer choices containing absolute or **negative words**. (NEVER, ALWAYS)

7. Look for opposite answer choices; it is likely than one of the two is correct.

8. Watch out for answer choices that are very similar to one another or are “equivalent.” One of them is likely the correct answer; select the best one among them (the “umbrella” choice).

9. Watch out for the choice “all of the above.” If there are at least two other answer choices that seem to be correct, there is a high probability that the choice “all of the above” is the correct answer.

10. When you're not docked for incorrect answers, it pays to guess.

11. Be wary of NOT/EXCEPT/LEAST/questions.
There are numerous negative questions on AP tests that may say, "...which was the LEAST important factor. ...?" "... which of the following was NOT a cause of ...?" "... all the following were causes EXCEPT. . ."

Strategies for MC

13. If an answer choice sounds too good to be true, it is probably the incorrect answer.

Examine the following question from the 2001 released AP Exam:

Throughout the first half of the nineteenth century women reformers were most active in the cause of

- A. temperance
- B. woman suffrage
- C. pacifism
- D. immigrants' rights
- E. workers' rights

Woman suffrage is too good to be true, but this answer served to distract students away from the correct answer. Although the women's suffrage movement was occurring at this time, the correct answer was A.

Multiple Choice Practice

Example Problem(s)	Model Response
<p>3. A photographer increases the size of a picture by 50%. The image still was not large enough so she increased the image by another 25%. What percent of its original size is the picture now?</p> <p>A. 75.0%</p> <p>B. 87.5%</p> <p>C. 175.0%</p> <p>D. 187.5%</p>	<p><i>You Try Solving</i></p>

Testing Strategies: True/False

1. Make sure the statement is 100% true.

1/2 right, 1/2 wrong is always an answer choice on multiple-choice questions, and when having to evaluate whether something is true or false on a true false section, make sure the statement is **100%** correct.

Testing Strategies: True/False

2. Watch out for extreme language; you should be suspicious that it is false.

Examples:

a. ONLY

b. ENTIRELY

c. ALWAYS

d. NEVER

e. NONE

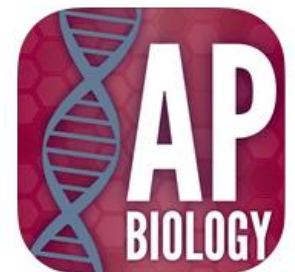
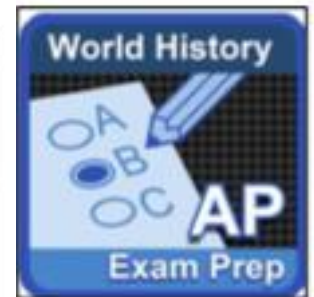
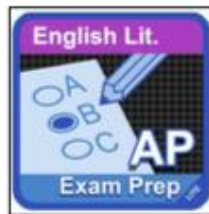
Testing Strategies: True/False

3. Look for terms like *ordinarily, usually, sometimes, often* etc” which make it more likely that the statement could be *true*.

Ways to Study

7. Quiz apps for your phone:

- AP Exam App: McGraw Hill
- AP Exam Review Flashcards LITE
- AP US History, Practice and Quiz (for Kindle, Tablet & Phone)
- AP Exam Planner (McGraw Hill)



Test Prep: Secrets of Straight-A Students

Fill out the KWL chart & share what you want to know more about with a partner.

End



Great Websites for AP Practice Tests

1. <http://www.learnerator.com/> (select AP)
2. <https://www.getafive.com/ap-tests>
3. <http://www.appracticeexams.com>
4. <http://ap.testfrenzy.com>

And The College Board Website *of course*:

<https://apstudent.collegeboard.org/takingtheexam/preparing-for-exams>



Discussion

- In your IDEAL world, what tools will your students bring to AP and honors classes?
 - What steps will I take to get them there?

My role

is

WHAT'S
NEXT?



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