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# PSAT 10 Test Directions

Translated into <Language> for Students

## Notes to the Proctor:

### Using this document on test day

Distribute this document once students are seated.

Students may use this document to read translations of the directions that are read aloud or printed in their test book.

Students may keep this document open and on their desk during the entire testing period.

Students may **not** be given additional time, unless approved by College Board as an accommodation.

Collect this document from each student at the end of testing and securely destroy it.

# Notes to the Student

The following is a translation of the directions the proctor will read aloud, as well as the written directions found in your test book. Follow along as your proctor reads the English directions aloud. If you have questions about what is being read by your proctor, please raise your hand.

- These translated directions may not match word-for-word what is read by your proctor. Don't worry, the meaning is the same.
- Your proctor may skip some instructions that don't apply to your testing situation.
- You may keep this document on your desk for the entire testing time, but must return it to the proctor after testing.
- You may NOT use this document for scratch paper.
- At various times, your proctor will announce the time remaining in the section, as well as breaks when appropriate. If you are testing with an approved accommodation, these announcements may differ from the timing and breaks listed in this translated document. Please listen carefully to the announcements read by your proctor.
- If you are testing with an approved accommodation, your proctor may give you additional directions in English.
- Icons are used throughout this document to draw your attention to specific information:



Important information



Directions found in your test book

Directions spoken by your proctor

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# 1 Test Day Scripts

## 1.1 Before the Test Begins

Your proctor will begin by saying:

Welcome to the PSAT 10 administration. This test will focus on what you've already been learning throughout high school. It's also a chance to practice for the SAT, see where you might need to improve, and qualify for scholarship programs. If you are using printed directions, use them to follow along as I give instructions.

Before we begin the test, I'm going to read some instructions. Please listen carefully, and raise your hand if you have any questions. Remember, my role is to make sure you have the best opportunity to demonstrate your skills and knowledge.

For today's test, you may use only a Number 2 pencil to mark your answer sheet. Mechanical pencils are not allowed. Please raise your hand if you do not have a Number 2 pencil, and I will give you one.

Then your proctor will say:

College Board PSAT 10 Terms and Conditions include rules and policies to make sure all students have a fair and equal test experience. If anyone disturbs others or tries to gain an unfair advantage, I'll ask them to leave the room and their scores will be canceled. They may also be prevented from taking other College Board tests in the future.

Your proctor will list examples of misconduct by saying:

Here are some examples of unfair advantages:

- Giving or receiving help of any kind on the test
- Looking through the test book before time starts
- Looking at any section or test other than the one we're currently on
- Marking or changing answers after time is called
- Attempting to remove test materials from the testing room
- Using a phone or any unauthorized testing aid during testing or during breaks
- Using an answer key or sharing answers with anyone
- Going to a locker or leaving the building during the test
- Attempting to take the test for someone else
- Eating or drinking during testing without an approved accommodation to do so
- Causing a disturbance
- Failing to follow testing procedures

These policies help make sure your testing experience today is fair, and that you can focus on your own test without distractions.

**Your proctor will read only one option, script A or B, that follows.**

**(A) If your school collected personal belongings, your proctor will say:**

By this time you should have turned in all phones and any other electronic devices. If anyone still has an electronic device of any kind, including a smartwatch or fitness tracker, please disable any alarms, power it off, and turn it in to me now. It will be returned to you at the end of the test.

**(B) If your school didn't collect personal belongings, your proctor will say:**

At this time, if you have a phone or any other electronic device in your possession, including a smartwatch or fitness tracker, you must disable any alarms, completely power it off, and put it in a bag or backpack to the side of the room until the test is over. If you need a bag to store your phone in, raise your hand and I will give one to you.

**Your proctor will confirm that no electronic devices are allowed by saying:**

Any electronic device that isn't turned off or put away may be collected and its contents inspected as part of an investigation. If you are seen with a device or your device makes a noise or creates a disturbance while in your possession, I will have to dismiss you from testing. From this point on, I will dismiss any student that I see with a phone, smartwatch, or other electronic device.

**Then your proctor will say:**

Thank you for paying attention to these instructions so far. Now we're going to prepare to start the test.

- Remove everything from your desk except your Number 2 pencils, acceptable calculator, and backup calculator if you have one. If you're using printed test directions or a word-to-word dictionary, keep these items on your desk as well.
- If you brought extra batteries, drinks, or snacks, put them on the floor under your desk.
- If you have any bags or backpacks remaining at your desk, close them and put them to the side of the room until testing is over.

**When all students are ready, your proctor will say:**

Please sit quietly while I take a moment to look around and make sure you're all using acceptable calculators.

**Then your proctor will say:**

Please remember you may not share or exchange calculators at any time. Put your calculators under your desks now. You will not need them until a later section.

### 1.1.1 **Answer Sheet Distribution**

**After distributing answer sheets, your proctor will say:**

These are the answer sheets that you'll use to mark your answers on the test. If you're using a large-print answer sheet, please read the directions on page 1 of your answer sheet about how to mark your answers. Your page numbers will be different from the ones I announce, but the field numbers will be the same as the field numbers I give for everyone. You'll mark the squares with an X instead of filling in bubbles. Raise your hand if you need assistance at any time.

**Your proctor will read only one option, script A or B, that follows.**

**(A) If all students have answer sheets with their personal information, your proctor will say:**

Everyone here should have an answer sheet with a label and/or printed and bubbled information on it. Please check that you have the correct answer sheet by making sure it shows your correct legal name and date of birth. Raise your hand if you have the wrong answer sheet or if you find any errors on the label.

If every student in the room has a correct answer sheet with information populated during a preadministration session, your proctor will proceed to **Test Book Distribution** on page 7.

**(B) If some students have not filled in personal information on their answer sheet, your proctor will say:**

Some of you may already have a label and/or printed and bubbled information on the answer sheet I just gave you. If that's the case, please check that you have the correct answer sheet by making sure the information on your answer sheet is correct. If it's correct and all required fields are filled out, please sit quietly for a few minutes while I direct other students to fill out the required fields on their answer sheets. If any information on your answer sheet is incorrect, raise your hand.

**To students who need to complete information on their answer sheets, for field 1, your proctor will say:**

If you need to complete fields on the answer sheet, begin with field 1. Fill in your legal last name, first name, and middle initial if you have one. Include spaces, hyphens, or apostrophes if these are part of your name. Print the letters in all caps in the boxes, then fill in the corresponding bubbles. Make sure each mark is dark and completely fills the bubble. Look up when you're finished.

**For field 2, your proctor will say:**

For field 2, if you attend this school, fill in the bubble for "Yes." Anyone who doesn't regularly attend this school should fill in the bubble that applies to you. Raise your hand if you have any questions.

**For fields 3 and 4, your proctor will say:**

For fields 3 and 4, if you attend this school, print our school's name, city, and state in field 3; then print our 6-digit school code \_\_\_\_\_ in field 4 and fill in the corresponding bubbles. If you don't regularly attend this school, raise your hand, and I will come over to give you the correct code to enter in field 4. Look up when you're done.

**Important:** Your proctor will skip field 5 if your school is not using student ID numbers.

**If your school is using student ID numbers, for field 5, your proctor will say:**

In field 5, print and fill in the bubbles for your student identification number, starting with the first column to the left. If there are letters in your ID number, don't include them and only enter the numerals, with no spaces between them. If you don't know your student ID number, raise your hand. Look up when you're done.

**For field 6, your proctor will say:**

Fill in your current grade in field 6.

**For field 7, your proctor will say:**

Complete field 7.

**For field 8, your proctor will say:**

For your date of birth, fill in the bubble for the month you were born. On large-print answer sheets fill in the digits for the month, starting with a zero if the month has only 1 digit. Next, write in the 2-digit number for the day you were born, starting with zero if the day is less than 10. Then write the last 2 digits of the year you were born. Fill in the corresponding bubbles and look up when you're done.

**Before distributing test books, your proctor will say:**

If you have other fields to complete in the nontest part of your answer sheet, you'll have a chance to complete them after the test is over.

### 1.1.2 **Test Book Distribution**

**When everyone is ready, your proctor will say:**

I will now distribute your test books. Do not open them until I tell you to.

**When all students have their test books, your proctor will say:**

Turn your test book over and read the back cover. It has important information about the test and how to properly mark your answers.

Are there any questions about what you just read?

**When everyone is ready, your proctor will say:**

On the back of the test book, clearly print your name, this school's code and name, and this room's testing room code or name, which I've posted for you.

**For students using a flash drive, your proctor will say:**

If you are using a flash drive format, you need to make sure this information is on your flash drive packaging as well.

**Your proctor will give additional instructions for marking answers by saying:**

It's important that you follow the directions for marking your answers so your answer sheet can be scored. I'm going to emphasize the most important points to make sure they're clear. Please listen carefully.

- Mark all of your answers on the answer sheet. You may use your test book for scratch work, but only answers marked on the answer sheet can be scored, unless you're approved to mark them in the test book.
- If you've been approved to record your answers in the test book, circle the letter of your chosen answer in your test book. Only circle 1 answer for each question. If you change your mind, erase as completely as you can. If you aren't approved for this accommodation, be sure to record your answers on the answer sheet.
- After time has been called, you may not transfer answers from your test book to your answer sheet or fill in bubbles.
- Make sure you use a Number 2 pencil. Don't use a pen, a colored pencil, or a mechanical pencil.

- Mark 1 answer for each question and fill in the bubbles on the answer sheet darkly and completely.
- Don't make any marks on your answer sheet other than your answers. Stray marks on your answer sheet will interfere with scoring.
- If you erase, do so completely. Incomplete erasures may be scored as intended answers.

### 1.1.3 **Completing the Certification Statement**

To all students, your proctor say:

Now please find the Certification Statement on the back of your answer sheet.

By signing the statement, you are agreeing not to share any test content with anyone, through any means, including but not limited to email, text messages, internet posts, or other use of the internet. Doing so may result in score cancellation or other possible sanction. These conditions are spelled out in the *PSAT 10 Student Guide*.

Read the statement and the information on your answer sheet, then sign your full name as you would on an official document. Under your signature, print your name and enter today's date.

Put your pencil down when you are finished.

### 1.1.4 **Completing Test Book Information**

For field A, Form Code, your proctor will say:

Find field A on the back of your answer sheet. Find the Form Code on the back of the test format you're testing with—that is, your test book, reader's script (provided to your human reader), braille book, or flash drive package. Copy the Form Code exactly as it appears on your test into field A on your answer sheet, and fill in the appropriate bubbles. Please look up when you are finished.

For field B, Test ID, your proctor will say:

Find field B on the back of your answer sheet. Find the Test ID on the back of the test format you're testing with—that is, your test book, reader's script (provided to your human reader), braille book, or flash drive package. Copy the Test ID exactly as it appears on your test into field B on your answer sheet, and fill in the appropriate bubbles. Please look up when you are finished.

For field C, Test Book Serial Number, your proctor will say:

Look at the front cover of your test book or other test format. Find the number in the upper right corner labeled "Test Book Serial Number." Enter your serial number into field C on your answer sheet and fill in the corresponding bubbles.

Then your proctor will say:

To prevent problems with getting your scores, check the Form Code, Test ID, and Test Book Serial Number fields to make sure you entered them correctly.

If your school uses testing room codes, for field D, your proctor will say:

In field D, write the testing room code that I have posted, then fill in the bubbles.



**If your school uses optional codes, for field E, your proctor will say:**

For field E, I will read aloud the names of students who are assigned each code. When you hear your name, enter the code I've announced for your group. Raise your hand if you need me to repeat which code is assigned to you. If you don't attend this school, leave field E blank.

**When everyone is ready, your proctor will say:**

You'll begin the test in just a few minutes, after I read a few final instructions.

During the test, keep your answer sheet and test book flat on your desk. If you find something wrong with your answer sheet or test book, such as a missing page, raise your hand at that time. I will walk around the room to check your progress.

For the PSAT 10, you can only work on a single section at a time. You are not allowed to move to the next section until you're told to do so. This may be different from what you're used to, so make sure not to move ahead or look back to a previous section, even if you finish the current section.

Answer sheets and test books must never be removed from the testing room.

If you have any questions about testing procedures, please ask them now. I will not be able to answer questions during the timed sections of the test.

### 1.1.5 **Front Cover Directions**



The following is a translation of the front cover of your test book.

#### **Important Reminders**

1. A No. 2 pencil is required for the test. Do not use a mechanical pencil or pen.
2. Sharing test questions or answers with anyone is a violation of our Terms and Conditions. If you violate our Terms and Conditions, we may cancel your scores and prohibit you from taking future assessments.

**THIS TEST BOOK MUST NOT BE TAKEN FROM THE ROOM. UNAUTHORIZED REPRODUCTION OR USE OF ANY PART OF THIS TEST BOOK IS PROHIBITED.**

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## 1.1.6 Back Cover Directions



The following is a translation of the back cover of your test book. When instructed, you should write on the test book or the answer sheet, not this document.

YOUR NAME (PRINT) \_\_\_\_\_  
LAST
FIRST
MI

SCHOOL \_\_\_\_\_  
SCHOOL CODE
NAME OF SCHOOL
TESTING ROOM CODE/NAME

### PSAT 10

#### GENERAL DIRECTIONS

- You may work on only one section at a time.
- If you finish a section before time is called, check your work on that section. You may NOT turn to any other section.

#### MARKING ANSWERS

- Be sure to mark your answer sheet properly.

Complete Mark:



Incomplete Marks:



- You must use a No. 2 pencil.
- Carefully mark only one answer for each question.
- Make sure you fill the entire bubble darkly and completely.
- Do not make any stray marks on your answer sheet.
- If you erase, do so completely. Incomplete erasures may be scored as intended answers.
- Use only the answer rows that correspond to the question numbers.

#### USING YOUR TEST BOOK

- You may use the test book for scratch work, but you will not receive credit for anything that you write in your test book.
- After time has been called, you may not transfer answers from your test book to your answer sheet or fill in bubbles.
- You may not fold or remove pages or portions of a page from this book, or take the book or answer sheet from the testing room.

#### SCORING

- For each correct answer, you receive one point.
- You do not lose points for wrong answers; therefore, you should try to answer every question even if you are not sure of the correct answer.

Ideas contained in passages for this test, some of which are excerpted or adapted from published material, do not necessarily represent the opinions of College Board.

#### IMPORTANT

The codes below are unique to your test book. Copy them on your answer sheet in fields A and B and fill in the corresponding bubbles exactly as shown.

A Form Code									
A	A	A	A	0	0	0			
B	B	B	B	1	1	1			
C	C	C	C	2	2	2			
D	D	D	D	3	3	3			
E	E	E	E	4	4	4			
F	F	F	F	5	5	5			
G	G	G	G	6	6	6			
H	H	H	H	7	7	7			
I	I	I	I	8	8	8			
J	J	J	J	9	9	9			
K	K	K	K						
L	L	L	L						
M	M	M	M						
N	N	N	N						
O	O	O	O						
P	P	P	P						
Q	Q	Q	Q						
R	R	R	R						
S	S	S	S						
T	T	T	T						
U	U	U	U						
V	V	V	V						
W	W	W	W						
X	X	X	X						
Y	Y	Y	Y						
Z	Z	Z	Z						

B Test ID									
0	0	0	0	0	0	0			
1	1	1	1	1	1	1			
2	2	2	2	2	2	2			
3	3	3	3	3	3	3			
4	4	4	4	4	4	4			
5	5	5	5	5	5	5			
6	6	6	6	6	6	6			
7	7	7	7	7	7	7			
8	8	8	8	8	8	8			
9	9	9	9	9	9	9			

**DO NOT OPEN THIS BOOK UNTIL THE PROCTOR TELLS YOU TO DO SO.**

## 1.2 Section 1: Reading Test



The standard time for Section 1 is **60 minutes**, with a **5-minute break** at the end of the section. If you are testing with an approved accommodation, your timing and breaks may be different. Please listen carefully to the announcements read by your proctor. A translation of the test book directions appears following the translated spoken directions.

**When everyone is ready, your proctor will say:**

We'll start testing with Section 1, the Reading Test. Once we begin, you'll have 1 hour to work on Section 1. We will take a 5-minute break when this section is finished. I will post the start and stop times, and I'll let you know when we're about halfway through the section and when 5 minutes are left.

Please turn your answer sheet to Section 1 on page 3. Don't start work until I tell you to. Keep your answer sheet open and flat on your desk. Do not fold pages back. Be sure to mark your answers in Section 1 of the answer sheet and check that your answers are in the right spaces for each numbered question. If you skip a question to come back to it later, make sure you leave that line blank on the answer sheet. If you change your response, erase it as completely as possible.

If you finish before I call time, you may check your work in this section, but you may not turn to any other section. You won't lose points for incorrect answers, so try to answer every question, even if you're not sure of the correct answer.

Now, please open your test book to Section 1. Read the directions, and begin work. Good luck, everyone. Time starts now.

**After 30 minutes, your proctor will say:**

You have 30 minutes remaining in Section 1.

**After 55 minutes, your proctor will say:**

You have 5 minutes remaining in Section 1.

**After exactly 60 minutes, your proctor will say:**

Please stop work and put your pencil down.

To help you find your place quickly after the break, put your answer sheet on top of the page in your test book where you stopped working. Close your test book and leave it on your desk.

**For the break, your proctor will say:**

We'll stop now for a 5-minute break to stretch. Do not discuss test questions during the break or leave the testing room without permission.

You may not access or use a phone or any other electronic device on this break or any other break during the test. All phones and other devices must remain powered off and put away until the test is over.

If I give you permission to leave the room, follow these rules:

- Only go to designated areas, the hallway, or the restroom.
- Please be considerate of students working in other rooms and don't talk in the hallway.

- If you brought a snack, you may eat it in designated areas only.

We will start testing again in exactly 5 minutes.

### 1.2.1 Section 1 Test Book Directions



The following is a translation of the directions found at the beginning of Section 1 of your test book.

#### **60 MINUTES, 47 QUESTIONS (STANDARD TIME)**

Turn to Section 1 of your answer sheet to answer the questions in this section.

#### **DIRECTIONS**

Each passage or pair of passages below is followed by a number of questions. After reading each passage or pair, choose the best answer to each question based on what is stated or implied in the passage or passages and in any accompanying graphics (such as a table or graph).

### 1.2.2 Break Between Sections

At the end of the break, your proctor will say:

Please take your seat. Do not open your test book until I tell you to.

### 1.3 Section 2: Writing and Language Test



The standard time for Section 2 is **35 minutes**. If you are testing with an approved accommodation, your timing and breaks may be different. Please listen carefully to the announcements read by your proctor. A translation of the test book directions appears following the translated spoken directions.

When everyone is ready, your proctor will say:

We'll now move on to Section 2, the Writing and Language Test. Once we begin, you'll have 35 minutes to work on Section 2. I will post the start and stop times, and I'll let you know when we're about halfway through the section and when 5 minutes are left.

Take out your answer sheet, and find Section 2 on your answer sheet. Don't start work until I tell you to. Keep your answer sheet open and flat on your desk. Do not fold pages back. Be sure to mark your answers in Section 2 of the answer sheet and check that your answers are in the right spaces for each numbered question.

If you finish before I call time, you may check your work in this section, but you may not turn to any other section.

Now, please open your test book to Section 2. Read the directions, and begin work. Time starts now.

After 15 minutes, your proctor will say:

You have 20 minutes remaining in Section 2.

After 30 minutes, your proctor will say:

You have 5 minutes remaining in Section 2.

After exactly 35 minutes, your proctor will say:

Please stop work and put your pencil down.

To help you find your place quickly, put your answer sheet on top of the page in your test book where you stopped working. Close your test book and leave it on your desk.

### 1.3.1 Section 2 Test Book Directions



The following is a translation of the directions found at the beginning of Section 2 of your test book.

#### **35 MINUTES, 44 QUESTIONS (STANDARD TIME)**

Turn to Section 2 of your answer sheet to answer the questions in this section.

#### **DIRECTIONS**

Each passage below is accompanied by a number of questions. For some questions, you will consider how the passage might be revised to improve the expression of ideas. For other questions, you will consider how the passage might be edited to correct errors in sentence structure, usage, or punctuation. A passage or a question may be accompanied by one or more graphics (such as a table or graph) that you will consider as you make revising and editing decisions.

Some questions will direct you to an underlined portion of a passage. Other questions will direct you to a location in a passage or ask you to think about the passage as a whole.

After reading each passage, choose the answer to each question that most effectively improves the quality of writing in the passage or that makes the passage conform to the conventions of standard written English. Many questions include a “NO CHANGE” option. Choose that option if you think the best choice is to leave the relevant portion of the passage as it is.

### 1.4 Section 3: Math Test – No Calculator



The standard time for Section 3 is **25 minutes**, with a **5-minute break** at the end of the section. If you are testing with an approved accommodation, your timing and breaks may be different. Please listen carefully to the announcements read by your proctor. A translation of the test book directions appears following the translated spoken directions.

When everyone is ready, your proctor will say:

We’ll now move on to Section 3, the Math Test without Calculator. Once we begin, you’ll have 25 minutes to work on Section 3. We will take a 5-minute break when this section is finished. I will post the start and stop times, and I’ll let you know when we’re about halfway through the section and when 5 minutes are left.

Take out your answer sheet, and find Section 3 on your answer sheet. Don’t start work until I tell you to. Keep your answer sheet open and flat on your desk. Do not fold pages back. Be sure to mark your answers in Section 3 of the answer sheet and check that your answers are in the right spaces for each numbered question.

Most questions are multiple choice, but the last few questions are “Student-Produced Responses.” Directions for entering your answers to these questions are in your test book. You’ll never need more than 4 spaces to record your answer, although some answers might not use all 4 spaces. If you’ve been approved to record your answers in your test book, be sure to mark your answers clearly (for example, circle your final answer).

Although this is a portion of the Math Test, you are not allowed to use a calculator unless you have been approved to use a 4-function calculator as an accommodation. Otherwise, please keep your calculator under your desk.

If you finish before I call time, you may check your work in this section, but you may not turn to any other section.

Now, please open your test book to Section 3. Read the directions, and begin work. Time starts now.

**After 10 minutes, your proctor will say:**

You have 15 minutes remaining in Section 3.

**After 20 minutes, your proctor will say:**

You have 5 minutes remaining in Section 3.

**After exactly 25 minutes, your proctor will say:**

Please stop work and put your pencil down.

To help you find your place quickly after the break, put your answer sheet on top of the page in your test book where you stopped working. Close your test book and leave it on your desk.

**For the break, your proctor will say:**

We’ll stop now for a 5-minute break to stretch. Do not discuss test questions during the break or leave the testing room without permission.

We will start testing again in exactly 5 minutes.

### 1.4.1 Section 3 Test Book Directions



The following is a translation of the directions found at the beginning of Section 3 of your test book.

#### 25 MINUTES, 17 QUESTIONS (STANDARD TIME)

Turn to Section 3 of your answer sheet to answer the questions in this section.

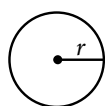
#### DIRECTIONS

For questions 1-13, solve each problem, choose the best answer from the choices provided, and fill in the corresponding bubble on your answer sheet. For questions 14-17, solve the problem and enter your answer in the grid on the answer sheet. Please refer to the directions before question 14 on how to enter your answers in the grid. You may use any available space in your test booklet for scratch work.

#### NOTES

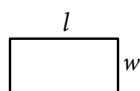
1. The use of a calculator **is not permitted**.
2. All variables and expressions used represent real numbers unless otherwise indicated.
3. Figures provided in this test are drawn to scale unless otherwise indicated.
4. All figures lie in a plane unless otherwise indicated.
5. Unless otherwise indicated, the domain of a given function  $f$  is the set of all real numbers  $x$  for which  $f(x)$  is a real number.

#### REFERENCE

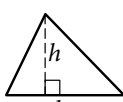


$$A = \pi r^2$$

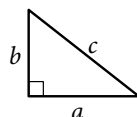
$$C = 2\pi r$$



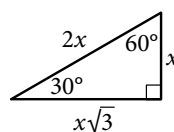
$$A = lw$$



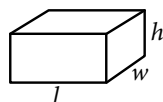
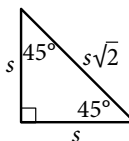
$$A = \frac{1}{2}bh$$



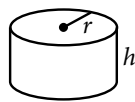
$$c^2 = a^2 + b^2$$



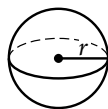
Special Right Triangles



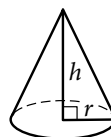
$$V = lwh$$



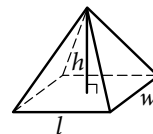
$$V = \pi r^2 h$$



$$V = \frac{4}{3}\pi r^3$$



$$V = \frac{1}{3}\pi r^2 h$$



$$V = \frac{1}{3}lwh$$

The number of degrees of arc in a circle is 360.

The number of radians of arc in a circle is  $2\pi$ .

The sum of the measures in degrees of the angles of a triangle is 180.

## DIRECTIONS

For questions 14-17, solve the problem and enter your answer in the grid, as described below, on the answer sheet.

- Although not required, it is suggested that you write your answer in the boxes at the top of the columns to help you fill in the bubbles accurately. You will receive credit only if the bubbles are filled in correctly.
- Mark no more than one bubble in any column.
- No question has a negative answer.
- Some problems may have more than one correct answer. In such cases, grid only one answer.
- Mixed numbers** such as  $3\frac{1}{2}$  must be gridded as 3.5 or  $7/2$ . (If  $\begin{array}{|c|c|c|c|} \hline 3 & 1 & / & 2 \\ \hline \circ & \circ & \circ & \circ \\ \hline \end{array}$  is entered into the grid, it will be interpreted as  $31/2$ , not  $3\frac{1}{2}$ .)
- Decimal answers:** If you obtain a decimal answer with more digits than the grid can accommodate, it may be either rounded or truncated, but it must fill the entire grid.

**Answer:  $\frac{7}{12}$**

Write answer in boxes →

	7	/	1	2
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0	0
1	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

← Fraction line

Grid in result

**Answer: 2.5**

		2	.	5
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0	0
1	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

← Decimal Point

Acceptable ways to grid  $\frac{2}{3}$  are:

	2	/	3
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0
1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

.	6	6	6
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0
1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

.	6	6	7
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0
1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
7	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Answer: 201 – either position is correct

	2	0	1
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0
1	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2	0	1	
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0
1	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**NOTE:** You may start your answers in any column, space permitting. Columns you don't need to use should be left blank.

### 1.4.2 Break Between Sections

At the end of the break, your proctor will say:

Please take your seat. Do not open your test book until I tell you to.



## 1.5 Section 4: Math Test – Calculator



The standard time for Section 4 is **45 minutes**. If you are testing with an approved accommodation, your timing and breaks may be different. Please listen carefully to the announcements read by your proctor. A translation of the test book directions appears following the translated spoken directions.

**When students are ready, your proctor will say:**

We'll now move on to Section 4, the Math Test with Calculator. Once we begin, you'll have 45 minutes to work on Section 4. I will post the start and stop times, and I'll let you know when we're about halfway through the section and when 5 minutes are left.

You may use a calculator for this section; if you have a calculator, please put it on your desk now. Even though you are allowed to use a calculator for this section, all the questions can be answered without a calculator. If you use a calculator, remember to follow these guidelines:

- Keep it flat on your desk or hold it so that other students can't view your work.
- Do not share or exchange your calculator with anyone else.
- If you brought a backup calculator or batteries, keep them on the floor under your desk.
- If your calculator malfunctions and you have batteries or a backup calculator, raise your hand. I'll come over to assist you. If you do not have a backup, continue taking the test and do the best you can.

Take out your answer sheet, and find Section 4 on your answer sheet. Don't start work until I tell you to. Keep your answer sheet open and flat on your desk. Do not fold pages back. Be sure to mark your answers in Section 4 of the answer sheet and check that your answers are in the right spaces for each numbered question.

Most questions are multiple choice, but the last few questions are "Student-Produced Responses." Directions for entering your answers to these questions are in your test book. You'll never need more than 4 spaces to record your answer, although some answers might not use all 4 spaces. If you've been approved to record your answers in your test book, be sure to mark your answers clearly (for example, circle your final answer).

If you finish before I call time, you may check your work in this section, but you may not turn to any other section.

Now, please open your test book to Section 4. Read the directions, and begin work. Time starts now.

**After 20 minutes, your proctor will say:**

You have 25 minutes remaining in Section 4.

**After 40 minutes, your proctor will say:**

You have 5 minutes remaining in Section 4.

**After exactly 45 minutes, your proctor will say:**

Please stop work and put your pencil down.

Close your answer sheet so that page 1 is on top. Close your test book, and place it on top of your answer sheet.

## 1.5.1 Section 4 Test Book Directions



The following is a translation of the directions found at the beginning of Section 4 of your test book.

### 45 MINUTES, 31 QUESTIONS (STANDARD TIME)

Turn to Section 4 of your answer sheet to answer the questions in this section.

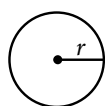
#### DIRECTIONS

For questions 1-27, solve each problem, choose the best answer from the choices provided, and fill in the corresponding bubble on your answer sheet. For questions 28-31, solve the problem and enter your answer in the grid on the answer sheet. Please refer to the directions before question 28 on how to enter your answers in the grid. You may use any available space in your test booklet for scratch work.

#### NOTES

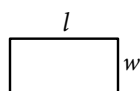
1. The use of a calculator **is permitted**.
2. All variables and expressions used represent real numbers unless otherwise indicated.
3. Figures provided in this test are drawn to scale unless otherwise indicated.
4. All figures lie in a plane unless otherwise indicated.
5. Unless otherwise indicated, the domain of a given function  $f$  is the set of all real numbers  $x$  for which  $f(x)$  is a real number.

#### REFERENCE

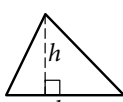


$$A = \pi r^2$$

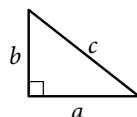
$$C = 2\pi r$$



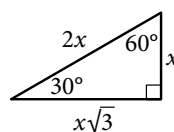
$$A = lw$$



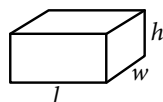
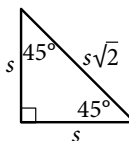
$$A = \frac{1}{2}bh$$



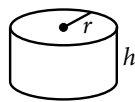
$$c^2 = a^2 + b^2$$



Special Right Triangles



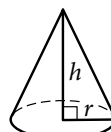
$$V = lwh$$



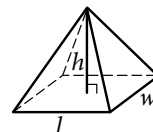
$$V = \pi r^2 h$$



$$V = \frac{4}{3}\pi r^3$$



$$V = \frac{1}{3}\pi r^2 h$$



$$V = \frac{1}{3}lwh$$

The number of degrees of arc in a circle is 360.

The number of radians of arc in a circle is  $2\pi$ .

The sum of the measures in degrees of the angles of a triangle is 180.

## DIRECTIONS

For questions 28-31, solve the problem and enter your answer in the grid, as described below, on the answer sheet.

- Although not required, it is suggested that you write your answer in the boxes at the top of the columns to help you fill in the bubbles accurately. You will receive credit only if the bubbles are filled in correctly.
- Mark no more than one bubble in any column.
- No question has a negative answer.
- Some problems may have more than one correct answer. In such cases, grid only one answer.
- Mixed numbers** such as  $3\frac{1}{2}$  must be gridded as 3.5 or  $7/2$ . (If  $\begin{array}{|c|c|c|} \hline 3 & 1 & / & 2 \\ \hline \bullet & \bullet & \bullet & \bullet \\ \hline \end{array}$  is entered into the grid, it will be interpreted as  $31/2$ , not  $3\frac{1}{2}$ .)
- Decimal answers:** If you obtain a decimal answer with more digits than the grid can accommodate, it may be either rounded or truncated, but it must fill the entire grid.

**Answer:  $\frac{7}{12}$**

	7	/	1	2
Write answer in boxes →				
	•	•	•	•
	0	0	0	0
	1	1	1	1
	2	2	2	2
	3	3	3	3
	4	4	4	4
	5	5	5	5
	6	6	6	6
	7	7	7	7
	8	8	8	8
	9	9	9	9

← Fraction line

**Answer: 2.5**

		2	.	5
	•	•	•	•
	0	0	0	0
	1	1	1	1
	2	2	2	2
	3	3	3	3
	4	4	4	4
	5	5	5	5
	6	6	6	6
	7	7	7	7
	8	8	8	8
	9	9	9	9

← Decimal Point

Grid in result

Acceptable ways to grid  $\frac{2}{3}$  are:

	2	/	3
•	•	•	•
	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

.	6	6	6
•	•	•	•
	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

.	6	6	7
•	•	•	•
	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

Answer: 201 – either position is correct

	2	0	1
•	•	•	•
	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4

	2	0	1	
•	•	•	•	•
	0	0	0	
1	1	1	1	
2	2	2	2	
3	3	3	3	
4	4	4	4	

**NOTE:**  
You may start your answers in any column, space permitting. Columns you don't need to use should be left blank.

## 2 After the Test

### 2.1 Dismissal

Your proctor will say:

Congratulations—you just finished the test. Please remain in your seats until I dismiss you.

Before collecting test materials, your proctor will say:

Before I collect your test materials, please turn your answer sheet over and check that you have filled in the Form Code in field A. This Form Code is required for scoring your test. Check that you have also completed fields B and C. Please raise your hand if you need help completing any fields.

#### 2.1.1 Collecting Test Books and Other Test Materials

When everyone is ready, your proctor will say:

I will now collect your test books. Please keep your answer sheets flat on your desks and sit quietly.

#### 2.1.2 Finishing Up

To all students, your proctor will say:

If you still have personal, nontest information to fill out on your answer sheet, please place your answer sheet facedown on your desk. Sit quietly and do not write anything on the answer sheet while I dismiss other students. In a few minutes I'll help you complete your answer sheets.

If you have already completed all the nontest information on your answer sheet, place your answer sheet faceup on your desk. Please sit quietly until I dismiss you.

#### 2.1.3 Preparing to Dismiss Students

If all students have completed nontest information on their answer sheets, your proctor will proceed to [Collecting Answer Sheets and Dismissing Students](#) on page 23.

If some students have completed nontest information on their answer sheets, your proctor will proceed to [Collecting Answer Sheets and Dismissing Students](#) on page 23 to dismiss students. When those students have been dismissed, your proctor will return to [Completing Answer Sheets](#) for the remaining students.

If your school didn't hold a preadministration session or if no students in the room were present for the session, your proctor will continue with the scripts that follow.

#### 2.1.4 Completing Answer Sheets

To all students, your proctor will say:

Take out the *Student Answer Sheet Instructions* booklet that I gave you. Follow along in this booklet to keep your place as I read instructions to you.

**To all students, your proctor will say:**

Open your answer sheet to page 2. If your answer sheet has a label that includes your home address, confirm that your address is correct. If your address is correct on the label, you can skip fields 9 through 13. If you see any errors in your address or if you don't have a label with your address, you'll need to fill in your correct address on the answer sheet.

**To all students filling in their address, your proctor will say:**

Follow the directions in your *Student Answer Sheet Instructions* booklet to write in and bubble your address in fields 9 through 13. Raise your hand if you have questions. If your address changes, you can always update it through your College Board account. If you're homeschooled, College Board needs your address to mail you a copy of your score report.

**For field 14, your proctor will say:**

Field 14 asks for your mobile number. Only U.S. mobile numbers are accepted.

This field is optional. If you agree to the terms printed on your answer sheet, enter your phone number. Please look up when you're done.

**For field 15, your proctor will say:**

Field 15 asks if you want to participate in College Board Student Search Service. This service can help you connect with opportunities. Saying "Yes" to Student Search Service allows colleges, nonprofit scholarship programs, and other education organizations to send you information about the educational and financial aid opportunities they offer. Follow the directions in your *Student Answer Sheet Instructions* booklet to fill in field 15. Raise your hand if you have questions.

**Now your proctor will say:**

Your answers to the questions in fields 16 through 21 will help ensure that tests and services are fair and useful to all students. Your responses may be used for research purposes and may be shared with your high school, school district, and state. For this reason, we strongly encourage all students to complete this section.

Your answers to the questions in fields 16, 18, 21, and 22 may be shared with colleges, scholarships, and other educational programs if you chose "Yes" for Student Search Service in field 15.

Fields 16 through 22 are optional. If your parent or guardian has told you that you shouldn't complete any optional or voluntary information, please just sit quietly as we go through these fields. Do not complete any field that asks for information your parent or guardian has told you not to provide.

**To all students, your proctor will say:**

Now, read the information in the *Student Answer Sheet Instructions* booklet to answer questions 16 through 21. Look up when you're done.

**When students are ready, for field 22, your proctor will say:**

Find field 22 on the back of your answer sheet. Read the information about providing your email address.

If you decide to provide an email address, fill in the bubble to indicate whether the email address is yours or a parent’s or guardian’s. College Board will use the email address to send information such as when your scores are available online.

If you opt in to Student Search Service, your email address will be added to your College Board student record.

**To all students, your proctor will say:**

We are now finished with completing your personal information. Please close your answer sheet. Place your answer sheet and *Student Answer Sheet Instructions* booklet faceup on your desk. Please sit quietly until I dismiss you.

### 2.1.5 **Collecting Answer Sheets and Dismissing Students**

**To students ready to be dismissed, your proctor will say:**

Remember, you must not, under any circumstances, take any test content from the testing room or discuss or share test content with anyone through any means, including email, text messages, or the internet. As I said at the beginning of the test, if a person violates any of these policies related to test security, their scores will be canceled and they may be prevented from taking other College Board tests in the future.

You will be notified when your scores are available and of how to access your complete score report online. You’ll also be able to link to Khan Academy for free, personalized SAT practice based on your specific test results.

Please wait in your seat until I dismiss your row. At that point, you may gather your belongings and come up to collect anything you turned in before the test. As you leave, please be considerate of people still working in other rooms. Again, congratulations on your hard work today.

If any students in the room haven’t completed their nontest information on the answer sheet, your proctor will return to **Completing Answer Sheets** on page 21.