

THE COLLEGE BOARD

PSAT™ 8/9 Test Directions Translated into <LANGUAGE> for Students 2018-2019 Only

Notes to the Proctor: This document should be printed and distributed 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 as a separate accommodation.

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

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Notes to the Student

- The following is a translation of the directions your proctor will read aloud. These translated directions may not match word-for-word what is read by your proctor; however, the pertinent information is the same. If you have questions about what is being read by your proctor, please raise your hand.
- If you need to refer to translated test book instructions, you can find them at the end of each test section after the translated spoken directions.
- 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 a 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 approved accommodations, your proctor may give you additional directions in English.
- In some cases, your state or district may have unique instructions or policies related to the answer sheet. Please listen and follow direction from your proctor regarding how to complete the personal information on your answer sheet.
- Icons are used throughout this document to draw your attention to specific information:



Important information



Directions spoken by your proctor



Directions found in your test book

1 Test Day Directions

1.1 Before the Test Begins

Your proctor will begin by saying:




Welcome to the PSAT 8/9 administration. This test will focus on what you've already been learning throughout school. It gives you a chance to see where you might need to improve in high school. If you are using printed directions that are translated, open the booklet now to follow along as I give instructions.

Before we begin the test, I'm going to read some regulations and instructions. Please listen carefully, and hold any questions until I ask for them.

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:

 All students should have an equal opportunity to show their skills and knowledge on this test. For this reason, there are rules in place to make sure that no one has an unfair advantage. We will dismiss and cancel the scores of anyone doing any of the following:


- Giving or receiving help of any kind on the test
- Looking through the test book before the start of the test
- Working on the wrong section or looking at a previous or future section of the test book or answer sheet
- Marking answers after time is called
- Sharing test questions or answers with anyone during or after the test
- Attempting to remove test materials from the testing room
- Using any unauthorized testing aids, including phones, during testing or breaks

You may also be dismissed for:


- Eating or drinking during testing (unless this has been approved as an accommodation—otherwise, eating and drinking are only permitted during breaks)
- Causing a disturbance of any kind or distracting other students
- Leaving the room or building without authorization during the test or breaks

Does anyone have any questions about anything I've said so far?

If your school collected students' personal belongings, your proctor will say:

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


If your school did NOT collect student's belongings, your proctor will say:

 At this time, if you have a phone or any other electronic device in your possession, you must disable alarms, completely power it off, and put it away in your bag, which will go under your desk until the test is over. Any electronic device that is not turned off and put away may be collected and its contents inspected as part of an investigation and you may be dismissed from testing.

If you brought snacks or drinks to have during a break, get those out and put them under your desk now. You will not be allowed to go into your bags during breaks.

Close all bags, and put them under your desk until the test is over.


Then your proctor will say:

 Now we're going to prepare to start the test.

Please remove everything from your desk except your Number 2 pencils with erasers, approved calculator, and any approved testing device.


If you brought a backup calculator or extra batteries, please put them on your desk. You may not share a calculator with another student at any time during the test or breaks.

When all students are ready, your proctor will say:


 Thank you. Please sit quietly while I take a moment to look around and make sure everyone has an approved calculator.

1.1.1 Answer Sheet Distribution


When students are ready, your proctor will say:

 I am now going to give each of you your answer sheet.


To students who are using LARGE-BLOCK answer sheets, your proctor will say:

 Please read the directions on page 1 of your answer sheet about how to mark your answers. You will be marking squares rather than bubbles, and the page numbers will be different from the ones I announce. Raise your hand if you need assistance at any time.


To all students, your proctor will say:

 Please check to make sure your correct legal name and date of birth appear on the answer sheet and that the corresponding bubbles have been filled in correctly. Raise your hand if you have the wrong answer sheet.

To students who need to populate their answer sheets, your proctor will say:

 Begin by filling in your legal last name, first name, and middle initial if you have one, in field 1. Include spaces, hyphens, or apostrophes if these are part of your name. If you include a name other than your legal last name, your scores may be delayed. 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 are finished. Are there any questions?


(A) For fields 2–4, if there are students in your classroom that do NOT attend the same school, your proctor will say:

 In field 2, if this is the school you regularly attend, fill in the bubble that says, “Yes.” and enter the name and address of your school in field 3. If this is not the school you regularly attend and you are not homeschooled, fill in the second bubble that says, “No, this is not the school I regularly attend.” and enter the name and address of your school in field 3. If you are homeschooled, fill in the third bubble that says, “No, I am homeschooled.” and do not enter any other information in field 3 or 4.


In field 4, enter your school code. If you attend this school, I have posted our school code in the front of the room. Other school codes for anyone who needs one are also listed. If you are homeschooled, leave field 4 blank. Please look up when you are finished.

OR


(B) For fields 2–4, if all of the students testing in your classroom attend your school, your proctor will say:

 In field 2, fill in the bubble that says, “Yes.” and enter the name and address of our school in field 3. In field 4, enter the school code that I have posted in the front of the room.


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

 In field 5, print and fill in your student identification number, starting with the first column to the left. If you have letters in your ID number, skip them and only enter the numerals. If you don’t know your student ID number, raise your hand. Look up when you’re done.

(B) If your school is NOT using student ID numbers, for field 5, your proctor will say:

 Make no marks in field 5.


For field 6, your proctor will say:

 Fill in your current grade level in field 6.

For field 7, your proctor will say:


 Fill in the appropriate bubble in field 7.

For field 8, your proctor will say:


-  In field 8, fill in the appropriate bubble for the month when you were born. Then fill in the day and the last 2 digits of the year you were born, and fill in the appropriate bubbles. Any 2-digit fields need to start with a zero if the number is less than 10. If you are using a large-block answer sheet, fill in the month, day, and year of your birth.

1.1.2 Test Book Distribution

When everyone is ready, your proctor will say:

-  I am now going to give you your test books. When you receive your test book, do not open it. Turn it over and read the back cover. It has important information about the test and how to properly mark your answers.


When everyone is ready, your proctor will say:

-  Print your name, this school's code, and this school's name clearly on the back of your test book. If you are using the MP3 or ATC format on a flash drive, you need to make sure this information is on your flash drive packaging as well. Please look up when you are finished.


Now turn your answer sheet to page 4 (or page 7 if you are using a large-block answer sheet).

1.1.3 Completing Test Book Information and the Certification Statement


For fields A and B, your proctor will say:

-  Find fields A and B on the back of your answer sheet (or page 7 of the large-block answer sheet). Copy the form code and test ID exactly as they appear on the back of your test book (or flash drive packaging for MP3 and ATC test takers) into fields A and B on your answer sheet. For field A, please also fill in the appropriate bubbles. Please look up when you are finished.

To all students, your proctor will say:

-  Take a moment to ensure that the Form Code and Test ID fields are completed correctly. It is critical that you enter the correct codes on your answer sheet. Otherwise, you may not receive scores.


(A) If your school uses testing room codes, for field C, your proctor will say:

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

(B) If your school does NOT use testing room codes, for field C, your proctor will say:

-  Please leave field C blank.

(A) If your school uses optional codes, for field D, your proctor will say:

-  Students who attend this school, please enter the number I have posted for you in field D.

(B) If your school does NOT use optional codes, for field D, your proctor will say:

-  Please leave field D blank.

To all students, your proctor will 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 specific test question with anyone, in any form of communication, including email, text message, internet posts, or other use of the internet. Doing so may result in score cancellation or other possible sanction. In addition, you agree that if your school provided


any information about you to the College Board, the College Board may retain that information to provide the educational services related to this test, such as score reporting and scholarship eligibility and opportunities.

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

Please be sure to complete this section. If you don't sign your name, your scores may be delayed or canceled.

Put your pencil down when you are finished

After everyone has signed the Certification Statement, your proctor will say:

 Please put your calculators and extra batteries under your desk now. You won't need them for this section.


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. I will also keep the official time for the test, and I will let you know periodically how much time you have left in each section.

You may use the test book for scratch work, but you must mark your answers on the answer sheet unless you are approved to mark them 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 empty bubbles.

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.


1.1.3.1 Specific Format Instructions

If a student is using a scribe, your proctor will say to the scribe:


 Please follow these instructions:

- You must write only what the student dictates.
- You may not prompt the student in a way that would result in a different response.
- If the student uses a word that is unfamiliar to you or that you don't know how to spell, ask the student to spell it.


To a student who is using a scribe, your proctor will say:

 Your answers and any corrections will be recorded as you dictate them. If you want to review your work, your answers will be read to you. Do you have any questions?

To a reader, your proctor will say:

 If you are reading the script to a student, please read questions as often as requested. It is important to read only what is in the script. Do not provide elaboration beyond what is in the script, even if the student asks for it. If a student using the braille figure supplement doesn't read braille, you can find the labels and numbers in corresponding locations in the regular-type books, if needed. Do you have any questions about these procedures?

To students using braille format, your proctor will say:

 The braille test is divided into several books. You will be given one book at a time. The Reading Test and the Writing and Language Test are in regular grade 2 braille. Throughout the test, each question is separated from another with a line. Each question begins in cell 1, with runovers beginning in cell 5. Each answer choice begins in cell 3 with runovers beginning in cell 5.

The braille type used is Unified English Braille (UEB), and the Math Test is in the 1972 revised Nemeth Code. The braille figure supplement includes braille math formulas and directions for use with both sections of the Math Test.

If you are using a braille device to record your answers, on each page you use, type your full name and the number of the section you are working on. Type the question number and your answer. It is not necessary to capitalize your answer choices.

Do you have any questions about these procedures?

To all students using an ATC format, your proctor will say:



Today you will be taking a form of the test that is compatible with your screen reader or other software. I have loaded this assistive technology-compatible format onto the computer on your desk.

Please prepare for testing now by opening and reading the electronic document titled Beginning Directions and Information for Users of ATC. When you are finished reading the document, please select the minimize button and look up.

During the test, you will be reading the same directions on the screen that other students will read in test books. All the directions for timing and other procedures that I read apply to you. When I tell you to start testing in a section, open the correct section file and type in your password, which is printed on your test packaging. When I call time, stop testing and close the file. Are there any questions?

1.1.4 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 any questions with anyone is a violation of Test Security and Fairness policies and may result in your scores being canceled.

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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1.1.5 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 of translations.

Your Name (Print) _____

LAST

FIRST

MI

School _____

NUMBER

NAME OF SCHOOL

ROOM NUMBER

PSAT™ 8/9

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.

IMPORTANT

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

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

B Test ID						
1	2	3	4	5	6	7

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

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

1.2 Script 1: Standard Time

1.2.1 Section 1: Reading Test



The standard time for Section 1 is **55 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:



Do not open your test book until I tell you to do so. Once we begin, you will have 55 minutes to work on Section 1, the Reading Test. We will take a 5-minute break when this section is finished.

Be sure to mark your answers in the numbered spaces that correspond to the numbered test questions in Section 1. Make sure you are using a Number 2 pencil and that you fill in the entire bubble darkly and completely. If you change your response, erase it as completely as possible. If you finish before time is called, you may check your work in this section, but you may NOT turn to any other section.

Remember that you receive points for correct answers, but you do not lose points for incorrect answers. That means you should try to answer every question, even if you're not sure of the correct answer.

Please turn your answer sheet to Section 1 on page 3 (or page 9 if you are using a large-block answer sheet). Keep your answer sheet open and flat on your desk. Do not fold pages back. Open your test book to Section 1, read the directions, and begin work. Time starts now. Good luck.

After 30 minutes, your proctor will say:



You have 25 minutes remaining in this section.

After 50 minutes, your proctor will say:



You have 5 minutes remaining in this section.

After exactly 55 minutes, your proctor will say:



Stop work and put your pencil down.

Close your answer sheet and place it on the page in your test book where you stopped working. Close your test book.

You will now have a few minutes 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.

If your school did NOT collect students' personal belongings, your proctor will say:



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.

1.2.1.1 During the Break

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 do so.

1.2.1.2 Section 1 Test Book Directions



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

55 MINUTES, 42 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 Section 2: Writing and Language Test



The standard time for Section 2 is **30 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:



Once we begin, you will have 30 minutes to work on Section 2, the Writing and Language Test.

Be sure to mark your answers in the numbered spaces that correspond to the numbered test questions in Section 2. If you finish before time is called, you may check your work in this section, but you may NOT turn to any other section.

Open your test book to the page where you inserted your answer sheet. Find Section 2 on page 3 of your answer sheet (or page 11 if you are using a large-block answer sheet). Keep your answer sheet open and flat on your desk. Do not fold pages back. Now, please turn to Section 2 in your test book, read the directions, and begin work. Time starts now.

After 15 minutes, your proctor will say:



You have 15 minutes remaining in this section.

After 25 minutes, your proctor will say:



You have 5 minutes remaining in this section.

After exactly 30 minutes, your proctor will say:



Stop work, and put your pencil down.

Close your answer sheet and place it on the page in your test book where you stopped working. Close your test book.

1.2.2.1 Section 2 Test Book Directions



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

30 MINUTES, 40 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.

1.2.3 Section 3: Math Test – No Calculator



The standard time for Section 3 is **20 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:



Once we begin, you will have 20 minutes to work on Section 3, the Math Test without Calculator. We will take a 5-minute break when this section is finished.


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 basic four-function calculator as an accommodation. Otherwise, please keep your calculator under your desk.

Open your test book to the page where you inserted your answer sheet. Find Section 3 on page 3 of your answer sheet (or page 13 if you are using a large-block answer sheet). Keep your answer sheet open and flat on your desk. Do not fold pages back. Be sure to mark your answers in the numbered spaces that correspond to the numbered test questions in Section 3. Directions for how to enter your answers to the questions labeled Student-Produced Responses are in your test book. Answers to these questions can be shorter, but not longer, than 4 characters.


If you finish before time is called, you may check your work in this section, but you may NOT turn to any other section.

Now, please turn to Section 3 in your test book, read the directions, and begin work. Time starts now.


After 10 minutes, your proctor will say:

 You have 10 minutes remaining in this section.

After 15 minutes, your proctor will say:

 You have 5 minutes remaining in this section.

After exactly 20 minutes, your proctor will say:

 Stop work and put your pencil down.


Close your answer sheet and place it on the page in your test book where you stopped working. Close your test book.

You will now have a few minutes 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.

1.2.3.1 During the Break

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 do so.

1.2.3.2 Section 3 Test Book Directions



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

20 MINUTES, 13 QUESTIONS (STANDARD TIME)

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

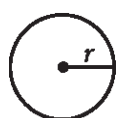
DIRECTIONS

For questions 1–10, solve each problem, choose the best answer from the choices provided, and fill in the corresponding circle on your answer sheet. For questions 11–13, solve the problem and enter your answer in the grid on the answer sheet. Please refer to the directions before question 11 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

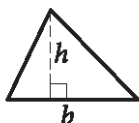


$$A = \pi r^2$$

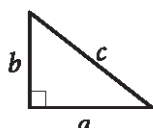
$$C = 2\pi r$$



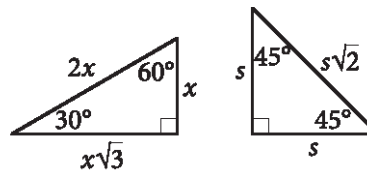
$$A = \ell w$$



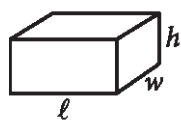
$$A = \frac{1}{2}bh$$



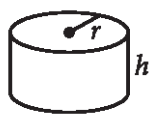
$$c^2 = a^2 + b^2$$



Special Right Triangles



$$V = \ell wh$$



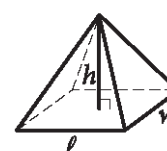
$$V = \pi r^2 h$$



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



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



$$V = \frac{1}{3}\ell wh$$

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

The number of radians of arc in a circle is 2π .

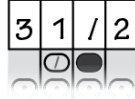
The sum of the measures in degrees of the angles of a triangle is 180.


DIRECTIONS

For questions 11-13, 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  is entered into the grid, it will be interpreted as $\frac{31}{2}$, 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
•	•	/	•
•	•	•	•
0	0	0	0
1	1	•	1
2	2	2	•
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
•	7	7	7
8	8	8	8
9	9	9	9

← Fraction line

Grid in result.

Answer: 2.5

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

← Decimal point

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

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

.	6	6	6
•	/	/	•
•	•	•	•
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	•	•	•
7	7	7	7
8	8	8	8

.	6	6	7
•	/	/	•
•	•	•	•
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
7	7	7	•
8	8	8	8

Answer: 201 – either position is correct

	2	0	1
•	/	/	•
•	•	•	•
0	•	0	0
1	1	1	•
2	•	2	2
3	3	3	3

2	0	1	
•	/	/	•
•	•	•	•
•	•	0	0
1	1	•	1
•	2	2	2
3	3	3	3

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

1.2.4 Section 4: Math Test – Calculator



The standard time for Section 4 is **40 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:



This is the final section of the test—you're almost done! Once we begin, you will have 40 minutes to work on Section 4, the Math Test with Calculator.

You may use your calculator for this section; please put your calculator on your desk now. When using a calculator, follow these guidelines:

- Keep it flat on your desk or hold it so that other students cannot 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 will come over to assist you. If you do not have a backup, continue to take the test. All math questions can be answered without a calculator.

Open your test book to the page where you inserted your answer sheet. Find Section 4 on page 3 of your answer sheet (or page 15 if you are using a large-block answer sheet). Keep your answer sheet open and flat on your desk. Do not fold pages back. Be sure to mark your answers in the numbered spaces that correspond to the numbered test questions in Section 4. Directions for how to enter your answers to the questions labeled Student-Produced Responses are in your test book. Answers to these questions can be shorter, but not longer, than 4 characters.

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

Now, please turn to Section 4 in your test book, read the directions, and begin work. Time starts now.

After 20 minutes, your proctor will say:



You have 20 minutes remaining in this section.

After 35 minutes, your proctor will say:



You have 5 minutes remaining in this section.

After exactly 40 minutes, your proctor will say:



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.

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

1.2.4.1 Section 4 Test Book Directions



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

40 MINUTES, 25 QUESTIONS (STANDARD TIME)

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

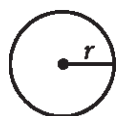
DIRECTIONS

For questions 1–21, solve each problem, choose the best answer from the choices provided, and fill in the corresponding circle on your answer sheet. For questions 22–25, solve the problem and enter your answer in the grid on the answer sheet. Please refer to the directions before question 22 on how to enter your answers in the grid. You may use any available space in your test booklet for scratch work.

NOTES

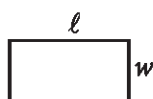
- The use of a calculator is permitted.
- All variables and expressions used represent real numbers unless otherwise indicated.
- Figures provided in this test are drawn to scale unless otherwise indicated.
- All figures lie in a plane unless otherwise indicated.
- Unless otherwise indicated, the domain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

REFERENCE

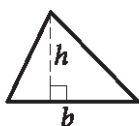


$$A = \pi r^2$$

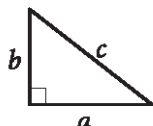
$$C = 2\pi r$$



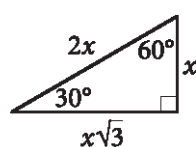
$$A = \ell w$$



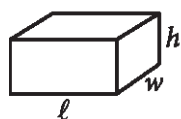
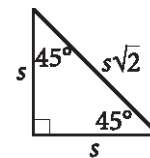
$$A = \frac{1}{2}bh$$



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



Special Right Triangles



$$V = \ell wh$$



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



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



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



$$V = \frac{1}{3}\ell wh$$

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

The number of radians of arc in a circle is 2π .


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

2 After the Test

2.1 Dismissal

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.

To MP3 or ATC users, your proctor will say:

 I will now collect your flash drives.


2.1.2 Finishing Up

To students who need to complete their identifying information on the answer sheet, your proctor will say:

 Please sit quietly while I dismiss the other students. I will then guide you through completing your personal information on the answer sheet. I cannot dismiss you until that information is complete.


2.1.3 Collecting Answer Sheets

To students whose answer sheets are complete, your proctor will say:

 I will now collect your answer sheets. Please sit quietly until I dismiss you.

2.1.3.1 Before Dismissing Students

After all materials are accounted for, your proctor will say:

 In just a moment, I'm going to let you go. Remember: You must not, under any circumstances, take any test content from the testing room or discuss test content with anyone through any means, including email, text messages, the internet, or social media applications.

You will be notified when your scores are available and how to access your complete score report online if you are at least 13 years old. If you are age 13 or over, you'll also be able to link to Khan Academy for personalized practice based on your specific test results.

The test administration is now over. Congratulations again, and thank you for your participation and for all of your hard work. You are now free to collect your belongings and leave the room.