## 2017 Oral/Signed Administration Guidelines


 timequidelinesexponents

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## Introduction

For the State of Texas Assessments of Academic Readiness (STAAR ${ }^{\circledR}$ ) program, every test administrator reading aloud secure test content must be trained on the guidelines in this document so that various types of test questions and answers are read aloud in a standardized manner.

This document specifically addresses the administration of assessments to students who meet the eligibility requirements for an oral/signed administration. Additionally, information in this document also applies to the following administrations.

- STAAR with Embedded Supports
- The test administrator may provide reading support to a student receiving a paper administration.
- The test administrator may provide a signed administration of the entire test for deaf and hard-of-hearing students who cannot access the text-to-speech function.
- The test administrator may read required reference materials and allowable accommodations for all students.

The campus coordinator will provide training in the procedures specific to orally administering test content as outlined in these guidelines. When applicable, the following documents should also be reviewed.

- The Oral/Signed Administration accommodation policy
- The paper administration guides for STAAR with Embedded Supports
- The General Instructions for Administering State Assessments to Students Who are Deaf or Hard of Hearing


## Ensure That the Same Test Form Is Used

- When orally administering all test questions and answer choices throughout a paper assessment where there is more than one test form available, the test administrator must have a test booklet with the same form number as the students. Campus coordinators are responsible for distributing test booklets with the same form number
- For STAAR and STAAR Spanish, form 01 is the overage in all shipments. This should be the form that is used for oral administration groupings.
- For paper versions of STAAR with Embedded Supports, there is only one form. Therefore, the test administrator and the students should automatically have the same form.
- When orally administering parts of test questions or answer choices at a student's request on a paper assessment for administrations where there are more than one test form available, it is acceptable to read over the student's shoulder. However, if the test administrator reads out of a separate test booklet, the test administrator MUST have a test booklet with the same form number as the student.
- When orally administering a braille assessment, the test administrator should use the regular-print test booklet that is included with the shipment of braille materials. Test administrators must also refer to the specific braille instructions provided in the braille materials. The specific braille instructions provide information about how a particular braille assessment differs from the print version, including information about test questions that have been altered, replaced, or omitted to ensure that the assessment is accessible to students who read braille. More information can be found in the General Instructions for Administering Braille State Assessments document located on the TEA's Accommodations for Students with Disabilities webpage.


## Ensure Test Security

- All security measures outlined in the STAAR Test Administrator Manuals must be followed.
- Any type of oral administration in which the test administrator has to view a secure state assessment requires that the test administrator sign the Oath of Test Security and Confidentiality for Test Administrator document. This includes the bottom section of the oath for test administrators who are authorized to view secure state assessments.
- Responding to test questions, making notes about test questions, and discussing the content of the assessment at any time are prohibited. In addition, test administrators may not write notes or calculations in a test booklet.
- Test administrators must not rephrase, clarify, or interpret any test content.
- Unauthorized verbal and nonverbal assistance may not be provided to students.


## Grouping Students for a Test Administration

- An assessment may be orally administered to a small group provided that every student in the small group is eligible for an oral administration. It is the responsibility of district and campus personnel to determine the most appropriate way to group students in order to provide a proper test administration.
- Test administrators must be made aware of the reading needs of the student as well as any requirements that are documented in the student's paperwork. This includes, if applicable to the oral administration, understanding the level of the student's reading support and whether that level of reading support can change during testing, based on the documentation in the student's paperwork. This type of information may help the coordinator determine the most appropriate way to group students in order to provide a proper test administration.
- When reading aloud test content, the test administrator may wait to read aloud the next question and answer choices until all students are ready. Test administrators may also walk around the room and quietly read aloud the questions and answer choices to students at their own pace.
- A student who receives an oral administration may complete the assessment in a separate setting to eliminate distractions to other students and to ensure confidentiality of the test.


## Test Administration

- Depending on the content area, test administrators may read aloud all or only certain parts of a state assessment.
- Mathematics, science, and social studies: The entire mathematics, science, and social studies assessments may be read aloud to a student.
- Reading: For reading assessments (including the reading section of English I, English II, and English III), only the questions and answer choices may be read aloud. The reading selections may NEVER be read aloud to a student.
- Writing: No part of the revising or editing section of a writing assessment (including the writing section of English I, English II, and English III) may be read aloud unless otherwise specified by TEA. However, reading aloud the expository or persuasive writing prompt is an allowable test administration procedure for any student who requests this assistance.
- Test administrators may read aloud supplementary materials.
- Required reference materials may be read aloud to students eligible for an oral administration. This includes the dictionary during grades 6-8 and EOC reading and writing assessments, as well as the state-supplied mathematics and science reference materials.
- Allowable accommodations may be read aloud to students eligible for an oral administration. This includes a dictionary at grades 3-5 or a supplemental aid.
- It is important to understand what constitutes a test question. A test administrator must understand that any part of the test question may be read aloud. This applies to words in the questions and the answer choices, including words in graphics (e.g., table, graph, grid, diagram, map, photograph, cartoon, or picture) and boxed text pulled directly from a selection. Specific information regarding how a test question should be read aloud can be found in the following pages.
- If a student needs all of the test questions read aloud, the test questions must be read aloud in the order they are presented. For reading assessments, the student must independently read the selection first, and then the test administrator may read aloud each test question in the order presented. If a student is working through the assessment independently, requesting only certain words, phrases, or sentences to be read at various times, the test administrator will read aloud what the student requests when he or she requests it. No particular order must be followed.
- Test administrators may read aloud any word, phrase, or sentence in the test questions and answer choices as many times as needed. At the end of the assessment, the test administrator may go back to reread a question and its answer choices at a student's request.
- Test administrators must be familiar with content-specific terms and symbols associated with the subject-area assessment. This will ensure that the assessment is administered accurately.
- Test administrators must keep their voice inflection neutral; however, words that are boldfaced, italicized, or printed entirely in capital letters must be emphasized.


## Oral Administration Code on Answer Document

After testing, GA must be recorded in the ACCOMM. field as available on the student's answer document or in the online system, if applicable.

## Guidelines for Reading Aloud Various Types of Test Questions

The guidelines and examples in this document reflect content tested on a STAAR assessment from various grade levels and subject areas. Not every type of test question is addressed. Test administrators are allowed to generalize from these guidelines and examples when reading aloud other types of test questions.

Additional guidelines for signing test content to a student who is deaf or hard of hearing are provided in the General Instructions for Administering Statewide Assessments to Students Who are Deaf or Hard of Hearing document.

## Guidelines for Mathematics

## Abbreviations

- Most abbreviations may be read aloud as the word or words they represent. These may be read aloud in either singular or plural form, as appropriate.

Examples:
Fri. may be read aloud as "Friday."
0.5 cm may be read aloud as "zero point five centimeter."

- Initialisms and acronyms may be read aloud as letters or words according to customary usage. Supplying the words represented by the letters is NOT allowed.


## Examples:

SAS postulate may be read aloud as "S-A-S postulate."
2:00 P.M. may be read aloud as "two P-M."
NASA may be read aloud as "nasa."

## Algebraic Expressions/Equations

- The variables in algebraic expressions/equations in test questions, answer choices, or the reference materials may be read aloud as the letter, not as the word, it represents. In addition, the mathematical operation may be read aloud if the symbol is present.

Examples:
$V=\pi r^{2} h$ may be read aloud as " $V$ equals pi $r$ squared $h . "$
$c \cdot d=k$ may be read aloud as "c times d equals $k$."

## Other Equations

- Many equations may be read aloud in the same way as they are read aloud in the classroom.

Example:
$3+17=20$ may be read aloud as "three plus seventeen equals twenty." $m \angle A B C=m \angle C B D$ may be read aloud as "the measure of angle A-B-C equals the measure of angle C-B-D."

Exceptions to this guideline exist when reading the equation could aid the student in finding the correct answer (e.g., in an arithmetic sequence).

Example:
$x=1,2,3, \ldots$ may be read aloud as "x equals the values shown."

## Geometric Symbols

- Geometric symbols may be read aloud in the same way as they are read aloud in the classroom.

Examples:
$\Delta D^{\prime} E^{\prime} F^{\prime}$ may be read aloud as "triangle D-prime-E-prime-F-prime."
$m \angle L M N$ may be read aloud as "the measure of angle L-M-N."
$\overparen{A B C}$ may be read aloud as "arc A-B-C."
$\overline{A B}$ may be read aloud as "line segment $A-B$."
$\pi r^{2}$ may be read aloud as "pi r squared."

## Graphics

- Most words and numbers in graphics may be read aloud. However, interpreting the graphic is NOT allowed.


## Bar Graphs



Clock Faces



Finish

Clock faces (digita or analog) may NOT be read aloud.

Labels may be read aloud.

## Coordinate Grids/Graphs



Point, line, and axis labels may be read aloud.

## Diagrams



Not drawn to scale

## Money



Words and numbers on images of money may NOT be read aloud.


## Pictographs

Matter Being Tested


Each represents 5 samples.

## Number Lists

- Most number lists within a line of text or within answer choices may be read aloud. Exceptions to this guideline exist when reading the number list could aid the student in finding the correct answer (e.g., ordering numbers). In these cases, the number list may be read aloud as individual digits.


## Numerical Expressions

- Most numerical expressions may be read aloud in the same way as they are read aloud in the classroom-as words or phrases rather than as individual digits.

Examples:
483 may be read aloud as "four hundred eighty-three."
-16 may be read aloud as "negative sixteen."
$30-16$ may be read aloud as "thirty minus sixteen."
$\sqrt{2}$ may be read aloud as "the square root of two."
Exceptions to this guideline exist when reading the numerical expression could aid the student in finding the correct answer (e.g., identifying place value). In these cases, the numerical expressions may be read aloud as individual digits.

Example:
What is another way to write 268? may be read aloud as "What is another way to write two-six-eight?"

Letters and numbers may be read aloud.

Title and categories may be read aloud.

Symbols may be read aloud as "symbol." They may NOT be described or interpreted.

## Numerical Expressions (continued)

## Dashes

- When a dash appears between two numbers, it may be read aloud as "to" or "through" depending on the context.


## Dates

- Numbers appearing in dates may be read aloud as phrases rather than individual digits.

Example:
June 16, 1978 may be read aloud as "June sixteenth nineteen seventy-eight."

## Decimals

- Decimals in numbers may be read aloud as "point."

Examples:
3.5 m may be read aloud as "three point five meters."
0.178 may be read aloud as "zero point one seven eight."

## Exponents

- Exponents to the second or third power may be read aloud as "squared" or "cubed." If the power is greater than 3 , the exponent may be read aloud as "to the $n$th power."

Examples:
$3 m^{2}$ may be read aloud as "three meters squared."
$y^{5}$ may be read aloud as " $y$ to the fifth power."

## Fractions

- In general, fractions may be read aloud as "[expression] over [expression]."

Examples:
$\frac{3}{7}$ may be read aloud as "three over seven."
$\frac{3 x-5}{7}$ may be read aloud as "three $x$ minus five over seven."
$3 \frac{1}{4}$ may be read aloud as "three and one over four."

## Functional Notation

- When a function symbol such as $f($ ) appears, it may be read aloud as "f of...."

Examples:
$f(x)$ may be read aloud as " $f$ of $x$."
$g(-2)$ may be read aloud as " $g$ of negative two."

## Numerical Expressions (continued)

## Money

- Most monetary expressions may be read aloud in terms of the appropriate denominations.

Examples:
$\$ 0.57$ may be read aloud as "fifty-seven cents."
$\$ 2.50$ may be read aloud as "two dollars and fifty cents."
Exceptions to this guideline exist when reading the monetary expression could aid the student in finding the correct answer (e.g., identifying the value of money). In these cases, the monetary expressions may be read aloud as individual digits.

Example:
$\$ 14.50$ may be read as "one four point five zero dollars."

## Ordered Pairs

- In an ordered pair, the coordinates may be read aloud as individual numbers without the parentheses or comma.

Example:
$(-2,1)$ may be read aloud as "negative two [pause] one."

## Parentheses and Brackets

- Parentheses and brackets in numerical expressions may NOT be read aloud; however, it would be appropriate to pause for these symbols.


## Example:

$8-(3 \times 2)$ may be read aloud as "eight minus [pause] three times two."

## Ratios

- A ratio symbol (:) may be read aloud as "to."

Examples:
1:2 may be read aloud as "one to two."
3:5:9 may be read aloud as "three to five to nine."

## Roman Numerals

- Roman numerals may be read aloud as the numbers they represent


## Example:

Quadrant I/ may be read aloud as "quadrant two."

## Set Notation and Interval Notation

- Set Notation may NOT be read aloud; however, individual numbers and variables within the notation may be read aloud.

Example:

$$
\{y \mid-4<y<4\} \text { may be read as "y", "negative four", "four" }
$$

## Numerical Expressions (continued)

- Interval Notation may NOT be read aloud; however, individual numbers within the notation may be read aloud.


## Example:

$[-6,2)$ and (-2, 10] may be read as "negative six", "two", "negative two", "ten"

## Subscripts

- Subscripts used with variables may be read aloud as numbers.

Example:

$$
x_{1}+x_{2} \text { may be read aloud as "X-one-plus-X-two." }
$$

## Symbols

- Many mathematical symbols may be read aloud as the word or words they commonly represent except in cases where that may aid the student in getting the correct answer. The table shows how some common symbols may be read aloud.

| Symbol | Read aloud as... |
| :---: | :---: |
| + | plus |
| - | minus |
| $\times$ | times |
| $\div$ | divided by |
| $=$ | equals |
| $\sqrt{ }$ | the square root of |
| $\sim$ | is similar to |
| $\approx$ | is approximately equal to |
| $\cong$ | is congruent to |
| - | degree(s) |
| \% | percent |
| $\infty$ | infinity |
| \| | | the absolute value of |
| < | symbol |
| $>$ | symbol |
| $\leq$ | symbol |
| $\geq$ | symbol |

## Guidelines for Reading

It is important to note that reading aloud reading selections is NOT allowed. The guidelines in this section refer to reading test questions and directions. In addition, the guidelines in this section should be followed when reading aloud expository and persuasive writing prompts.

## Abbreviations

- Most abbreviations may be read aloud as the word or words they represent. These may be read aloud in either singular or plural form, as appropriate.

Examples:
Mr. may be read aloud as "Mister."
e.g. may be read aloud as "for example."
adv may be read aloud as "adverb."

- Initialisms and acronyms may be read aloud as letters or words according to customary usage. Supplying the words represented by the letters is NOT allowed.

Examples:
U.S. may be read aloud as "U-S."

2:30 P.M. may be read aloud as "two thirty P-M."
NASA may be read aloud as "nasa."

## Numbers

- Most numbers may be read aloud in the same way as they are read aloud in the classroom.


## Examples:

$35^{\circ}$ F may be read aloud as "thirty-five degrees Fahrenheit."
$\$ 2.50$ may be read aloud as "two dollars and fifty cents."

- Numbers appearing in dates may be read aloud as phrases rather than individual digits.

Example:
June 16, 1978 may be read aloud as "June sixteenth nineteen seventy-eight."

- The numbers in dictionary entries are read as "one," "two," etc., with no special emphasis.


## Direction Lines

- Although reading selections may NOT be read aloud, the direction lines that accompany each selection may be read aloud.

Example:
Read the selection and choose the best answer to each question may be read aloud.

## Graphics

- Most words and numbers in graphics may be read aloud. However, interpreting the graphic is NOT allowed.


## Diagrams



## Story Maps



## Verbatim Text

- Questions and answer choices that include text taken verbatim from the reading selection (e.g., quotation, caption, stage directions), may be read aloud in their entirety. Italicized text should be given no special emphasis; however, words in boldface may be read aloud with emphasis.


## Brody grinned because he knew that the team-which he had actually led-had successfully completed its task.

MIKE: [Nods eagerly.] My dad was taking me to Ranger Scouts last night, and the traffic was bad.
[Carl gives him an annoyed look.]

Heading and other words may be read aloud.

## Guidelines for Science

## Abbreviations

- Most abbreviations may be read aloud as the word or words they represent. These may be read aloud in either singular or plural form, as appropriate.

Examples:
Dec. may be read aloud as "December."
MHz may be read aloud as "megahertz."
$5^{\circ} \mathrm{C}$ may be read aloud as "five degrees Celsius."
$\mathrm{g} / \mathrm{cm}^{3}$ may be read aloud as "grams per centimeters cubed."

- Initialisms and acronyms may be read aloud as letters or words according to customary usage. Supplying the words represented by the letters is NOT allowed.

Examples:
U.S. may be read aloud as "U-S."

AIDS may be read aloud as "aids."

## Equations and Scientific Expressions

- Most equations, formulas, and scientific expressions may be read aloud in the same way as they are read aloud in the classroom.


## Capital and Lowercase Letters

- Capital and lowercase letters in chemical formulas should be read aloud without distinction.

Example:
HCl may be read aloud as "H-C-L."

- Capital and lowercase letters in genotypes should be read aloud with distinction as shown.

Example:
genotype Rr may be read aloud as "genotype big-R little-r."

## Chemical Elements and Compounds

- Symbols for elements and formulas for compounds may be read aloud as letters and numbers without distinctions or breaks. They may NOT be read aloud as the names of the elements or compounds.

Examples:
Ag may be read aloud as "A-G."
$\mathrm{C}_{6} \mathrm{H}_{12} \mathrm{O}_{6}$ may be read aloud as "C-six-H-twelve-O-six."

## Equations and Scientific Expressions (continued)

## Chemical Equations

- Chemical equations may be read aloud as letters and numbers. Phase indicators such as (aq) may be read aloud as letters. The plus symbol may be read aloud as "plus." The arrow symbol may be read aloud as "symbol."

Example:
$\mathrm{Al}_{2}\left(\mathrm{SO}_{4}\right)_{3}(\mathrm{aq})+3 \mathrm{Ca}(\mathrm{OH})_{2}(\mathrm{aq}) \rightarrow 3 \mathrm{CaSO}_{4}(s)+2 \mathrm{Al}(\mathrm{OH})_{3}(s)$ may be read aloud as "A-L-two-S-O-four-three-A-Q-plus-three-C-A-O-H-two-A-Q-symbol-three-C-A-S-O-four-S-plus-two-A-L-O-H-three-S."

## Scientific Names

- Scientific (genus/species) names may be read aloud exactly as written.


## Examples:

Salmonella enterica may be read aloud as "Salmonella enterica."
S. enterica may be read aloud as "S-enterica."

## Graphics

- Most words and numbers in graphics may be read aloud. However, interpreting the graphic is NOT allowed.


## Bar Graphs



## Circle Graphs



Title, labels,
 may be read aloud.

## Graphics (continued)

## Codon Charts

|  |  | Second Letter |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | U | C | A | G |  |  |
|  | U | Phenylalanine | Serine | Tyrosine | Cysteine | U |  |
|  |  | Phenylalanine | Serine | Tyrosine | Cysteine | C |  |
|  |  | Leucine | Serine | (STOP) | (STOP) | A |  |
|  |  | Leucine | Serine | (STOP) | Tryptophan | G |  |
|  | C | Leucine | Proline | Histidine | Arginine | U |  |
|  |  | Leucine | Proline | Histidine | Arginine | C |  |
|  |  | Leucine | Proline | Glutamine | Arginine | A |  |
|  |  | Leucine | Proline | Glutamine | Arginine | G |  |
|  | A | Isoleucine | Threonine | Asparagine | Serine | U |  |
|  |  | Isoleucine | Threonine | Asparagine | Serine | C |  |
|  |  | Isoleucine | Threonine | Lysine | Arginine | A |  |
|  |  | Methionine (START) | Threonine | Lysine | Arginine | G |  |
|  | G | Valine | Alanine | Aspartate | Glycine | U |  |
|  |  | Valine | Alanine | Aspartate | Glycine | C |  |
|  |  | Valine | Alanine | Glutamate | Glycine | A |  |
|  |  | Valine | Alanine | Glutamate | Glycine | G |  |

Letters and words
may be read aloud.

Coordinate Grids/Graphs

(s)

## Diagrams



Labels, numbers, and letters may be read aloud.

Abbreviations may
be read aloud as the words they represent.

It is NOT allowable to indicate what the arrow symbol represents.

All labels may be read aloud.

## Graphics (continued)

## Maps

Title, labels,

 and numbers may be read aloud.

Words in key may be read aloud.

## Photographs With Labels



Labels may be read aloud.

Tables

| Toy Cars |  |  |
| :---: | :---: | :---: |
| Toy Car | Mass (kg) | Acceleration $\left(\mathrm{m} / \mathrm{s}^{2}\right)$ |
| 1 | 0.19 | 2.0 |
| 2 | 0.15 | 3.0 |
| 3 | 0.25 | 1.5 |
| 4 | 0.21 | 2.5 |

Title, headings, and
 aloud
Abbreviations may
be read aloud as the words they represent.

## Numerical Expressions

- Numerical expressions may be read aloud in the same way as they are read aloud in the classroom-as words or phrases rather than as individual digits.


## Dashes

- When a dash appears between two numbers, it may be read aloud as "to" or "through" depending on the context.


## Numerical Expressions (continued)

## Dates

- Numbers appearing in dates may be read aloud as phrases rather than individual digits.

Example:
June 16, 1978 may be read aloud as "June sixteenth nineteen seventy-eight."

## Decimals

- Decimals in numbers may be read aloud as "point."

Example:
3.5 may be read aloud as "three point five meters."

## Degrees

- The degree symbol $\left({ }^{\circ}\right)$ may be read aloud as "degrees," and numbers with the symbol may be read aloud the same way as they are read aloud in the classroom.

Example:
$35^{\circ} \mathrm{C}$ may be read aloud as "thirty-five degrees Celsius."

## Exponents

- Exponents to the second or third power may be read aloud as "squared" or "cubed." If the power is greater than 3 , the exponent may be read aloud as "to the $n$th power."

Examples:
$3 \mathrm{~m} / \mathrm{s}^{2}$ may be read aloud as "three meters per second squared."
$4.1 \times 10^{5}$ may be read aloud as "four point one times ten to the fifth power."

## Percents

- The percent symbol (\%) may be read aloud as "percent," and numerals with the symbol may be read aloud the same way as they are read aloud in the classroom.

Examples:
$48 \%$ may be read aloud as "forty-eight percent."
$7.5 \%$ may be read aloud as "seven point five percent."
$0.23 \%$ may be read aloud as "zero point two three percent."

## Roman Numerals

- Roman numerals may be read aloud as the numbers they represent.

Example:
Statements I and I/ may be read aloud as "statements one and two."

## Guidelines for Social Studies

## Abbreviations

- Most abbreviations may be read aloud as the word or words they represent. These may be read aloud in either singular or plural form, as appropriate.


## Examples:

Dr. may be read aloud as "doctor."
c. 1450 may be read aloud as "circa fourteen fifty."

Marbury v. Madison may be read aloud as "Marbury versus Madison."

- Initialisms and acronyms may be read aloud as letters or words according to customary usage. Supplying the words represented by the letters is NOT allowed.


## Examples:

U.S. may be read aloud "U-S."

NAFTA may be read aloud "nafta."
NATO may be read aloud "nato."
NAACP may be read aloud " N -double A-C-P."

## Dates

- B.C. and A.D., or similar designations that appear in a date, may be read aloud as letters.

Example:
500 b.c. is read as "Five hundred B-C."

- Numbers appearing in dates may be read aloud as phrases rather than individual digits.

Example:
June 16, 1978 may be read aloud as "June sixteenth nineteen seventy-eight."

- Dashes appearing between two dates may be read aloud as "to" or "through" depending on the context.

Example:
1960-1968 may be read aloud as "nineteen sixty to nineteen sixty-eight" or as "nineteen sixty through nineteen sixty-eight."

## Decimals

- Decimals in numbers may be read aloud as "point."

Example:
3.5 million people may be read aloud as "three point five million people."

## Graphics

- Most words and numbers in graphics may be read aloud. However, interpreting the graphic is NOT allowed.


## Bar Graphs

Titles, labels, and


Cause/Effect

## CAUSE <br> EFFECT



## Circle Graphs



Headings and other words may be read aloud.

It is NOT allowable to indicate what the arrow symbol represents.

Title, labels,
and percents
may be read aloud.

## Diagrams



## Maps

Growth Rate of the Population
Age 65 and Older by State, 2000-2005


Relocation of American Indians in the 1830s


Titles, labels, and numbers may be read aloud.

Symbols may NOT be described or interpreted.

Titles, labels, and numbers may be read aloud.

Letters on compass
rose may be read aloud as letters.

## Graphics (continued)

## Photographs, Political Cartoons, and Other IIlustrations



## Tables

1860 Census Results for Selected States

| State | Total <br> Population | Total Number <br> of Slaves | Slaves as a Percentage <br> of Population |
| :--- | ---: | :---: | :---: |
| Alabama | 964,201 | 435,080 | $45 \%$ |
| Georgia | $1,057,286$ | 462,198 | $44 \%$ |
| Kentucky | $1,155,084$ | 225,483 | $20 \%$ |
| Maryland | 687,049 | 87,189 | $13 \%$ |
| Mississippi | 791,305 | 436,631 | $55 \%$ |
| Virginia | $1,596,318$ | 490,865 | $31 \%$ |

Titles, headings, and numbers may be read aloud.

## Graphics (continued)

## Time Lines



## Percents

- The percent symbol (\%) may be read aloud as "percent," and numerals with the symbol may be read aloud the same way as they are read aloud in the classroom.

Examples:
$48 \%$ may be read aloud as "forty-eight percent."
$7.5 \%$ may be read aloud as "seven point five percent."
$0.23 \%$ may be read aloud as "zero point two three percent."

## Roman Numerals

- Roman numerals may be read aloud as the numbers they represent.


## Example:

World War II may be read aloud as "World War Two."

## Text Boxes

- All boxed text may be read aloud in its entirety, including the attribution line.

Black Codes was a name given to laws passed by southern governments established during the presidency of Andrew Johnson. These laws imposed severe restrictions on freedmen, such as prohibiting their right to vote, forbidding them to sit on juries, and limiting their right to testify against white men. They were also forbidden from carrying weapons in public places and working in certain occupations.
-National Archives and Records Administration, http://www.archives.gov (accessed July 14, 2010)

## Examples

## Mathematics

1. Any text in the test question and answer choices may be read aloud. This example may be read aloud as follows. "The model below is shaded to represent three and seven over one hundred. Which decimal does the model represent? A, three point zero zero seven. B, three point seven. C, three point zero seven. D, zero point three seven."

The model below is shaded to represent $3 \frac{7}{100}$.


Which decimal does the model represent?
A 3.007
B 3.7
C 3.07
D 0.37
2. The question may be read aloud, as well as labels in the coordinate grid. However, reading aloud the answer choices must follow the guidelines in this document. Only individual numbers and variables within the notation may be read aloud if the student requests this assistance. The test administrator may NOT read aloud each answer choice in its entirety.

What is the range of the function graphed on the grid?


F $\quad\{x \mid x=-2,2,4\}$
G $\{y \mid-3 \leq y \leq 4\}$
H $\{x \mid-2 \leq x \leq 4\}$
J $\{y \mid y=-3,0,4\}$
3. Any text in the test question or answer choices may be read aloud; however, the triangle and circle should be read aloud as "blank." For example, the first equation may be read aloud as "blank plus blank equals 11."

In the equations below, each $\triangle$ represents the same number.

$$
\begin{aligned}
& \bigcirc+\triangle=11 \\
& \triangle \times \triangle=9
\end{aligned}
$$

What is the value of


A 3
B 2
C 8
D 9

## Reading

4. Any text in the test question or answer choices may be read aloud, including the boxed text pulled directly from the reading selection.

Read lines 44 and 45 from the poem.

Instead, I hear winds whisper: Free land! You made a choice.

The poet uses personification in these lines to show that the winds -

A are important to frontier life
B seem to taunt the speaker
C serve as a symbol of the speaker's anger
D blow gently and quietly on the frontier

## Science

5. Any text in the question may be read aloud, including the "Record" directions. The chemical equation may be read aloud as, "C three $H$ eight plus five $O$ two symbol three $C$ O two plus four H two O." It is NOT allowable to indicate what the arrow represents.

$$
\mathrm{C}_{3} \mathrm{H}_{8}+5 \mathrm{O}_{2} \rightarrow 3 \mathrm{CO}_{2}+4 \mathrm{H}_{2} \mathrm{O}
$$

How many different elements are involved in the reaction shown above?
Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.
6. The first sentence may be read aloud in its entirety. For the graphic, the test administrator should say something similar to, "Take a few moments to look at the graphic and tell me whether you would like anything read aloud. Then let me know when you are ready to go on." If needed, the information in the graphic may be read aloud as, "F air equals eighty four N." The text under the graphic and in the answer choices may be read aloud; however, reading aloud the answer choices must follow the guidelines in this document. For example, answer choice A may be read aloud as, "zero point six six meters per second squared backward, because..."

The diagram below shows two different forces acting on a cyclist riding a bicycle.


The total mass of the cyclist and the bicycle is 100.0 kg . Based on this information, what is the acceleration of the cyclist?

A $0.66 \mathrm{~m} / \mathrm{s}^{2}$ backward, because the force of the air slows the cyclist down
B $0.66 \mathrm{~m} / \mathrm{s}^{2}$ forward, because the applied force is greater than the force of the air
C $2.3 \mathrm{~m} / \mathrm{s}^{2}$ backward, because the forces are opposite and not equal
D $2.3 \mathrm{~m} / \mathrm{s}^{2}$ forward, because the cyclist's inertia is greater than the force of the air

## Social Studies

7. For the graphic, the test administrator should say something similar to, "Take a few moments to look at the map and tell me whether you would like anything read aloud. Then let me know when you are ready to go on." For example, if the student needs help reading information in the key aloud, the test administrator should point to the words and say, "This says over one million." However, symbols may NOT be described or interpreted. Once students are ready to go on, any text in the test question and answer choices may be read aloud.

1850


1870


KEY
City Population

- 10,000-250,000
- Over 1 million State as of census day

Which of these best explains the change in population and distribution of U.S. cities from 1850 to 1870 ?

A The passage of homesteading legislation
B The admission of new states to the Union
C The expansion of the railroad system and increased industrialization
D The emancipation of slaves after the Civil War

