



Educator Guide to Student Readiness



Table of Contents

Purpose of this Guide.....	4
Connection to the Standards	4
AK STAR Assessment Preparation.....	5
Student Tutorial.....	5
How to Access the Student Tutorial.....	5
Practice Tests	6
Guidance for Teachers.....	6
How to Access the Practice Tests.....	7
English Language Arts Item Types.....	8
Multiple-Choice Single-Select.....	8
Multiple-Choice Multiple-Select	8
Table.....	9
Drop-Down.....	9
Select in Passage.....	10
Drag and Drop	10
Text Entry.....	11
Select in Graphic.....	12
Multipart.....	13
Written Response	14
Mathematics Item Types	15
Multiple-Choice Single-Select.....	15
Multiple-Choice Multiple-Select	15
Numeric Entry.....	16
Fraction Entry.....	16
Graphing	17
Table.....	18
Drop-Down.....	18
Drag and Drop	19
Zone	19

Written Response	20
Multipart.....	21
Appendix A: Accessing Student Tutorials	22
Appendix B: Accessing Practice Tests	23
Appendix C: Answer Keys for AK STAR.....	25
Mathematic Grade 3 Practice Test Answer Key.....	26
Math Written Response Rubric Grade 3	30
Mathematics Grade 4 Practice Test Answer Key.....	31
Math Written Response Rubric Grade 4	35
Mathematics Grade 5 Practice Test Answer Key.....	36
Math Written Response Rubric Grade 5	39
Mathematics Grade 6 Practice Test Answer Key.....	40
Math Written Response Rubric Grade 6	43
Mathematics Grade 7 Practice Test Answer Key.....	44
Math Written Response Rubric Grade 7	47
Mathematics Grade 8 Practice Test Answer Key.....	48
Math Written Response Rubric Grade 8	52
Mathematics Grade 9 Practice Test Answer Key.....	53
Math Written Response Rubric Grade 9	56
ELA Grade 3 Practice Test Answer Key	57
ELA Grade 4 Practice Test Answer Key	61
ELA Grade 5 Practice Test Answer Key	65
ELA Grade 6 Practice Test Answer Key	69
ELA Grade 7 Practice Test Answer Key	73
ELA Grade 8 Practice Test Answer Key	77
ELA Grade 9 Practice Test Answer Key	81

Purpose of this Guide

This Educator Guide to Student Preparation provides an overview of the resources created to help prepare students for the Alaska System of Academic Readiness or AK STAR. This guide is intended to help educators familiarize students with the format of the assessments using the Student Tutorial and Practice Test resources.

The Student Tutorial and Practice Tests are available to students, educators, families, and community members. DEED encourages everyone to utilize these tools to become familiar with the assessments.

Descriptions of the Student Tutorials and Practice Tests are presented in this guide. The items presented in this guide are for illustrative purposes and allow students to become comfortable with the assessment platform and presentation.

Connection to the Standards

The AK STAR assessments measure the skills and concepts outlined in the Alaska English Language Arts and Mathematics Standards. These K-12 standards can be found on the [Alaska Department of Education & Early Development Standards webpage](#).

Although it is important to familiarize students with what they will experience on the AK STAR summative assessment, ensuring that students receive instruction in the ELA and math standards is key. These standards establish a strong foundation of knowledge and skills all students need for success after graduation. A solid curriculum and instruction based on evidence and best practices will provide a strong content background for students. The AK STAR summative assessments measure a student's understanding of the standards.

AK STAR Assessment Preparation

The AK STAR student readiness resources are comprised of two components to support students learning to navigate within the test environment, utilize the tools available, and become familiar with the format of the assessment: Student Tutorial and Practice Tests.

Student Tutorial

The Student Tutorial is a narrated video that introduces the test platform. The tutorial uses narration and visual descriptions to explain the testing tools and navigation through the test engine.

How to Access the Student Tutorial

Quick Guide: Accessing Student Tutorial is located in [Appendix A](#) of this guide and on the [AK STAR webpage](#). This one-page document provides step-by-step instructions and screenshots to guide users to the tutorial.

Practice Tests

The purpose of the AK STAR Practice Tests is to familiarize students with the engine, the NWEA State Solutions Secure Browser, and to give them an opportunity to practice the types of questions that will be on the AK STAR summative assessment.

The Practice Tests cover only a small amount of the content in the Alaska English Language Arts and Mathematics Standards and should not be used to inform instruction. An answer key for each practice test is available in Appendix C of this guide. Districts and educators are encouraged to have students login to the practice tests via the NWEA State Solutions Secure Browser.

Students need multiple opportunities to access the practice tests so that they are familiar with using the tools and functions that are part of the AK STAR Summative Assessment. Students should practice on the same types of devices (e.g., computers, tablets) that they will use during the spring assessments. Students should also take the assessment on the type of device that they are most familiar with using in the classroom.

Guidance for Teachers

Here are some examples of the types of features in the practice tests that teachers should review with students:

- Show how to navigate using the question numbers at the bottom of the page and the navigation buttons (Next and Back).
- Model when and why to use the Mark for Review feature (e.g., if students find themselves stuck on a problem, they can flag it and then go back to it later).
- Model how to use the Eliminator tool to show how to cross-off answer options for various item types.
- Model how to use the final review page to make sure all items have been completed and how students can return to a specific item by clicking on the number.
 - Show students how to access the calculators when available (specific parts in grades 6-9).
 - Show students how to access the formula table in grades 5-9.
 - Show students how to use the scroll bar to see the entire passage (for ELA) and explain to students how they can look back at the passage on the left side of the screen when answering the questions on the right side of the screen.
 - Practice moving the guideline on the screen as the student reads a passage.
 - Practice using the scroll bar to see the entire item for items that extend beyond the screen.

The following lists show some of the tools and navigation controls available on the AK STAR Summative Assessment.

Tools

- Help (?)
- Eliminator
- Guideline
- Highlighter
- Sticky Note
- Magnify
- Drawing
- Protractor
(grades 4-5 only)
- Ruler
- Graph Paper

Students must be able to read and use these buttons for navigation

- Next
- Back
- Mark for Review
- Clear
- Pause
- Return to test
- End test
- Submit and End Test

The following list shows some technology skills that students may need to use for the AK STAR Summative Assessment.

Keyboarding skills

- Type single word or numbered responses
- Type paragraph response.

Mouse or touch screen skills

- Click or touch to select an answer or multiple answers.
- Click or touch to highlight a word or sentence.
- Select an item from a drop-down menu.
- Drag and drop a word, number, phrase, or image to sort, order, label, match, or complete model.
- Move the line in a bar area to construct a bar graph.

How to Access the Practice Tests

Quick Guide: Accessing Student Practice Tests is located in [Appendix B](#) of this guide and on the [AK STAR Student Readiness webpage](#). This one-page document provides step-by-step instructions and screenshots to guide users to the practice tests.

English Language Arts Item Types

Specific item types students may see are listed below and are taken from the AK STAR ELA Practice Tests.

Multiple-Choice Single-Select

This type of question lists four choices and asks students to select the correct answer. It is worth 1 point.

Why does Iris grin in paragraph 20?

- She enjoys making designs.
- She is proud of her creations.
- She has thought of a plan.
- She realizes the rain has stopped.

Multiple-Choice Multiple-Select

This type of question lists five or more choices and has two or more correct answers. (Students will be told how many choices to select.) It is worth 1 point. Students must select all of the correct choices and none of the incorrect ones for their answers to be scored as correct.

Which **three** things do volunteers learn by watching the training slide show?

- The types of foods that dogs eat
- The signs of worry in dogs
- Strategies for approaching dogs
- Ways to reward dogs
- The types of scents that dogs like

Table

This type of question asks students to sort information into groups. For each row, students select the column that correctly describes that row. It is worth 2 points, but students can earn partial credit of 1 point if they choose all but one of the correct answers.

How do the things Iris says show her character traits? Match each trait with the quote from the passage that **best** supports it. Each line only has one answer.

	Clever	Confident	Eager
"May I run over to Rodney's booth?" (paragraph 11)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
"Not rich enough. Do you think we can make a trade?" (paragraph 23)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
"My tags have pizzazz. . . Customers love them." (paragraph 27)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Drop-Down

This type of question asks students to select answers from drop-down lists. If there is only one drop-down list, the question is worth 1 point. If there are two drop-down lists, the question is worth 2 points, but students can earn partial credit of 1 point if they select the correct choice from only one of the drop-down lists.

Select from the lists of choices to complete the sentences.

In the first paragraph, the author asks the question, "Who wants a bedtime story?" to

[choose] ▼

The author offers a possible answer to the question to introduce the

[choose] ▼

Select in Passage

This type of question asks students to select answers from a short section of the passage or another text, such as a dictionary entry. In the given text, certain words, phrases, or sentences are underlined. The students' job is to select the underlined choice or choices that provide the best answer. (They will be told how many choices to select.) This type of question is worth 1 point.


Read the following sentences from paragraph 4. From the four underlined phrases, select the phrase that **best** helps the reader understand the meaning of the word **profits**.





Iris grinned. "I hope they'll help you sell lots of paintings so
I can buy that kaleidoscope." Mom had promised to share
the profits with Iris if she helped out—five cents for every
dollar's worth of sales.

Drag and Drop

This type of question asks students to move one or more choices into the correct box. If there is only one box to fill or if the number of choices equals the number of boxes to fill, the question is worth 1 point. If there are two or more boxes to fill and there are more choices than boxes, the question is worth 2 points. For the 2-point questions, students can earn partial credit of 1 point if they fill all but one box correctly.

Sentences 6 and 7 from the paragraph follow. Move the comma to the one place where it is needed.



(6) Pet pigs are different  from farm pigs  in that they are smaller. (7) Because  they are smaller  they can live inside.

Text Entry

This type of question asks students to write a short written response—usually of just one word—in a box. It is usually used to test knowledge of spelling. It is worth 1 point. In the example that follows, part B is a text-entry question.

Part A

Which word from the paragraph is misspelled?

calender

predicted

puffy

meant

Part B

Write the correct spelling of the word in the space provided.

Select in Graphic

This type of question shows a graphic, such as an illustration from the passage, with certain selectable sections. The students' job is to select the correct section or sections. (They will be told how many sections to select.) This type of question is worth 1 point.

Read paragraphs 7 through 8. Select the **two** arrows that represent the migration path of fourth-generation monarch butterflies.

The Migration Path

Legend:

- Spring Migration
- Fall Migration
- Rocky Mountains

Multipart

This type of question combines two other kinds of questions. Usually, the first part asks about a passage, and the second part asks for evidence to support the answer in the first part. This type of question is worth 2 points, but students can earn partial credit of 1 point if they answer the first part correctly and the second part incorrectly. Students earn no credit if they answer the first part incorrectly, even if they answer the second part correctly.

Part A

What is the main idea of the passage?

- Both dogs and volunteers benefit from shelter reading programs.
- Local libraries will donate many books to shelters for read-alouds.
- In order to find a forever home, dogs need to play with kids and listen to stories.
- The best books to read aloud to dogs are books about other dogs.

Part B

Which pair of paragraphs from the passage **best** supports the answer to part A?

- Paragraphs 1 and 3
- Paragraphs 2 and 4
- Paragraphs 8 and 13
- Paragraphs 11 and 12

Written Response

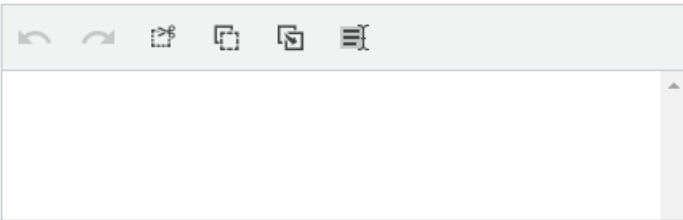
This type of question asks students to write a short response of about a paragraph based on a passage or two passages. The response is worth 3 points.

Prompt: Write a paragraph to explain and support the following opinion about the passage. Support your explanation with at least **two** pieces of evidence from the passage.

Opinion: Ray Meyer played an important role in George Mikan's success as an athlete.

To write a successful response, you should do the following.

- Begin with a topic sentence, respond to all parts of the prompt, and end with a concluding statement.
- Use linking words to connect ideas.
- Use mostly your own words.
- Use complete, correct sentences.



Mathematics Item Types

Specific item types students may see are listed below and are taken from the AK STAR Mathematics Practice Tests. All math questions are worth 1 point, except for the multipart questions and written responses.

Multiple-Choice Single-Select

This type of question lists four choices and asks the student to select the correct answer.

What is the value of $23.28 \div 0.3$?

Select one answer.

0.776

7.76

77.6

776

Multiple-Choice Multiple-Select

This type of question lists three or more choices and can have any number of correct answers. Sometimes students will be told how many choices to select, and sometimes they will not be told. Students must select all the correct choices and none of the incorrect choices for their answer to be scored as correct.

Consider the following inequality.

$$24 < 6 + 3p$$

Which values from the set $\{5, 6, 10, 11\}$ can be substituted for p to make the inequality true?

Select **all** that apply.

5

6

10

11

Numeric Entry

This type of question asks students to enter a number or numbers. Students can use the digits 0 through 9 in their answer. In grades 4 and up, students can use a decimal point, and in grades 6 and up, students can also use a negative sign.

What is the value of the following expression?

$$\frac{9^2 + 5 \cdot 2 - 1^3}{2^4 - 6}$$

Enter your answer in the space provided.

Fraction Entry

This type of question asks students to give their answer as a fraction by entering the numerator and denominator. Students can use digits 0 through 9 in their answer, and students in grades 6 and up can also use a negative sign. They cannot enter a decimal point. Unless an exact match is required, equivalent


responses are scored as correct. For example, if the answer is $\frac{1}{2}$, then $\frac{4}{8}$ is scored as correct.

Paulina worked on math homework for $\frac{2}{5}$ hour. Later, Paulina worked on science homework for $\frac{1}{6}$ hour.

What fraction of an hour did Paulina work on math and science homework?


Give your answer as a fraction by entering the numerator and the denominator in the spaces provided.

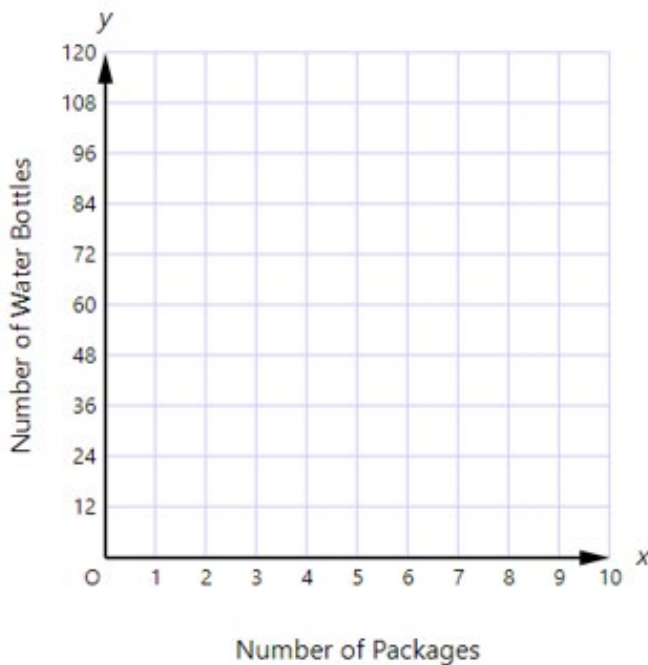
Graphing

This type of question asks students to graph one or more points or lines on a grid. To graph each object, students must first select the button for that object. Then they select a place on the grid where they want the object to appear. To graph a line, students place two points on the grid that the line should pass through. Students can move objects after they are placed by first selecting the Chooser button (), and then selecting and dragging points.

Several packages of bottled water are purchased for a sixth-grade picnic. Each package contains 24 water bottles.

Graph the line in the following coordinate plane that **best** models the relationship between x , the number of packages of bottled water purchased, and y , the number of water bottles.

Select the button for the line. Then select the location on the grid where it should be placed. To change your answer, first select the  button, then move any points that you would like to change.



Table

This type of question asks students to select cells in a table. For each row, students select the column or columns that are correct. Some questions may restrict them to one selection for each row or column, and some may allow them to select more than one column per row.

Determine whether each expression in the following table is equivalent to $6\frac{3}{4} \div \frac{9}{10}$.

Select one cell per row.

	Equivalent to $6\frac{3}{4} \div \frac{9}{10}$	Not Equivalent to $6\frac{3}{4} \div \frac{9}{10}$
$6\frac{3}{4} \div 9 \div 10$	<input type="radio"/>	<input type="radio"/>
$\frac{24 + 3}{4} \cdot \frac{10}{9}$	<input type="radio"/>	<input type="radio"/>

Drop-Down

This type of question asks students to select answers from drop-down lists.

Describe how the numbers $-7\frac{1}{2}$ and -7 would be positioned relative to each other on a horizontal number line.

Select from the lists of choices to complete the statement.

The number $-7\frac{1}{2}$ would be to the of -7 on a horizontal number line because .

Drag and Drop

This type of question asks students to move one or more choices into the correct space or spaces.

Melvin and Roberto played football on two different teams last season.

- Melvin's team won w games.
- Roberto's team won 3 fewer games than Melvin's team.

Create an expression that can be used to represent the number of games Roberto's team won last season.

Move a number, variable, or symbol into each box.

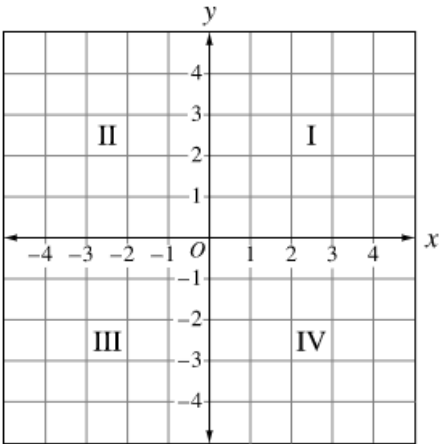
3 w - + . ÷

Zone

This type of question asks students to select one or more sections of an image presented to them. When selected, the portion will be highlighted.

The following figure shows a coordinate plane with the quadrants labeled. In which quadrant does the point with coordinates $\left(-3\frac{1}{4}, 2\frac{1}{2}\right)$ lie?

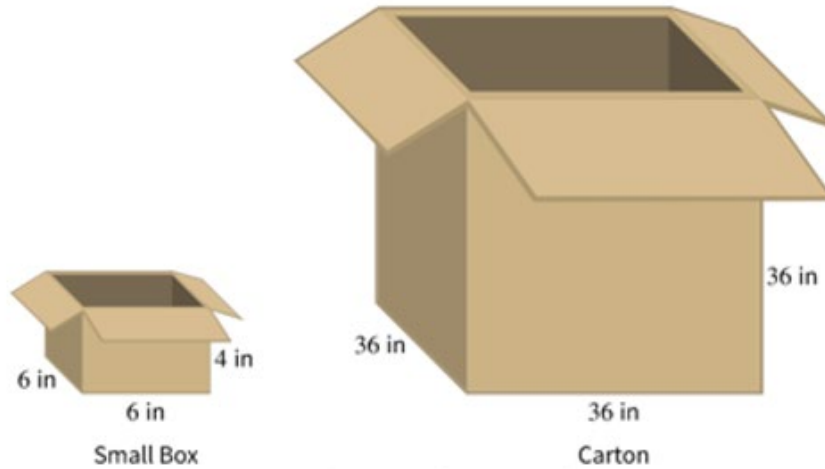
Select the correct quadrant.



Written Response

This type of question asks students to write a response that includes a combination of words and math expressions or equations. Although not required, students can use the equation editor buttons to add mathematical symbols to their answer. Words can be typed from their regular keyboard. This type of question is worth three points for grades 3–5 and four points for grades 6 and up; it is human scored.

Martin needs to ship 972 small boxes in larger cartons. The following picture shows the exterior dimensions of each small box and the interior dimensions of each carton, in inches.



Note: Figure not drawn to scale.

What is the **least** number of cartons that Martin needs to ship the 972 small boxes? Show your work or explain how you found your answer.

Enter your answer and your work or explanation in the space provided.

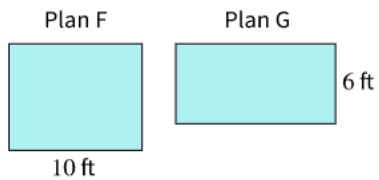
Σ

Multipart

This type of question has two or three parts. Each part has one question that can be any of the types described in this document. All parts are based on the information that is presented on the left side of the screen. Each part is worth one point unless one of the parts is a written-response question.

Hubert will add a room with a rectangular floor to a house. He will use one of the following floor plans. He will need enough carpet to cover the floor and enough border to line the edges of the ceiling.

- The dimensions of each floor plan are the same as the dimensions of the ceiling for that plan.
- The cost of the carpet per square foot will be the same for both plans.
- The cost of the border per foot will be the same for both plans.



Part A

If Hubert chooses Plan F and needs **80** square feet of carpet for the floor, what is the total number of feet of border he will need for the edges of the ceiling?

Enter your answer in the space provided.

feet

Part B

If Hubert chooses Plan G and needs **36** feet of border for the edges of the ceiling, what is the total number of square feet of carpet he will need for the floor?

Enter your answer in the space provided.

square feet

Appendix A: Accessing Student Tutorials

The Student Tutorial is a web-based video that introduces the AK STAR testing system. The tutorial will walk a student through using the online practice tests, providing basic testing instructions, where to access the provided support tools and testing tips. The tutorial is accessible to students, educators, families, and community and easily viewable on many web browsers. A username and password are not required to access the tutorial.



Quick Guide

1. Use the link posted to the [AK STAR Student Readiness webpage](https://education.alaska.gov/assessments/akstar/student-readiness) (education.alaska.gov/assessments/akstar/student-readiness) to view the Student Tutorial. After the link is selected, the video will begin to play.
2. OR use this link to take you directly to the video:
<https://vimeo.com/672021973/4d3ec642c2>



Appendix B: Accessing Practice Tests

The Practice Tests are for the computer-based assessment designed to provide students with a hands-on opportunity to experience the test environment. Students can navigate through a “test”, practice using test-taking tools, and try out different item types.

School districts should provide students with the opportunity to use the practice tests. Students should be familiar with navigating the test environment prior to testing so they can focus on the content of the test and confidently demonstrate their knowledge of the Alaska standards.

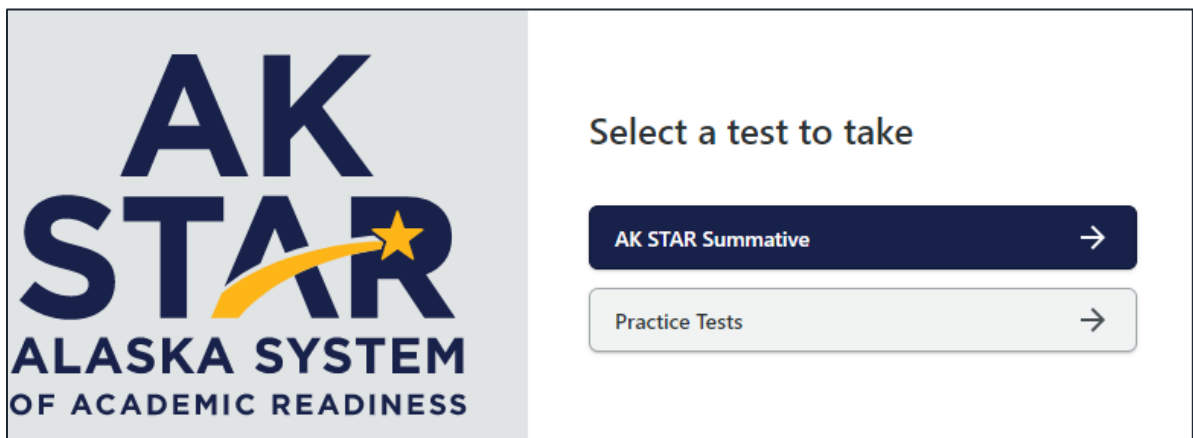
The practice tests are accessible to students, educators, parents, and community. Families are encouraged to use the practice tests and see what kinds of questions their student will be answering. Test questions are not scored, and answers are not saved.

All of the resources mentioned in the steps below are also available on the [AK STAR Student Readiness webpage](http://education.alaska.gov/assessments/akstar/student-readiness) (education.alaska.gov/assessments/akstar/student-readiness).

- Access the Practice Tests via the NWEA State Solutions Secure Browser. Districts should download the NWEA State Solutions Secure browser to provide the best testing experience for students. Directions for this download can be found in the [AK STAR System and Technology Guide](#). This will also help ensure student devices are prepared for testing during the operational administration.
- Access the Practice Tests via internet browser. The practice tests are also available outside the secure browser by using this provided link. [AK STAR Practice Tests](#)

Once on the practice test page, follow the steps below to access the appropriate practice test.

1. Select “Practice Tests” from the two options.



2. A menu of test options will be presented. Select the appropriate option from each drop-down button.

Quick Guide

3. Once you have selected all the appropriate options, select “Take Test” to begin the practice test.

Practice Using the Software

You must select an option for each field in order, from first to last.

Year
2022 ▼

Grade
Grade 4 Practice Test ▼

Subject
English Language Arts ▼

Accommodations
No Accommodation ▼



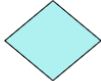


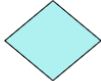


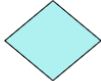
4. If your student uses American Sign Language (ASL) or Text to Speech functionality, you can practice these item types by selecting “Grade 3-9 Accommodated Items” in the “Grade” drop down.
5. Under the “Accommodations” drop down Select ASL or Text to Speech to view those practice items.

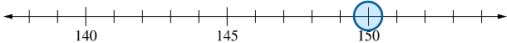
Appendix C: Answer Keys for AK STAR


The following pages include answer keys and item type for each item included in the AK STAR Practice Tests. These answer keys are also available separately on the AK STAR [Student Readiness webpage](#).

Written responses in the following answer keys may contain spelling or grammatical errors. These errors are intentional and meant to be reflective of a student response.

Mathematic Grade 3 Practice Test Answer Key

Item Number	Correct Answer	Item Type														
1	<input type="radio"/> $63 \div 7$	Multiple Choice Single-Select														
2	<table style="margin: auto; border-collapse: collapse;"> <tr> <td style="border: 1px solid gray; padding: 5px; text-align: center;">2</td> </tr> <tr> <td style="border-top: 1px solid gray; border-bottom: 1px solid gray; width: 20px;"></td> </tr> <tr> <td style="border: 1px solid gray; padding: 5px; text-align: center;">3</td> </tr> </table>	2		3	Fraction Entry											
2																
3																
3	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 30%;">Shape</th> <th style="width: 35%;">Is a Quadrilateral</th> <th style="width: 35%;">Is Not a Quadrilateral</th> </tr> </thead> <tbody> <tr> <td></td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td></td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td></td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> </tbody> </table>	Shape	Is a Quadrilateral	Is Not a Quadrilateral		<input type="radio"/>	<input checked="" type="radio"/>		<input checked="" type="radio"/>	<input type="radio"/>		<input checked="" type="radio"/>	<input type="radio"/>	Table		
Shape	Is a Quadrilateral	Is Not a Quadrilateral														
	<input type="radio"/>	<input checked="" type="radio"/>														
	<input checked="" type="radio"/>	<input type="radio"/>														
	<input checked="" type="radio"/>	<input type="radio"/>														
4	<p>For how many days has Mr. Jonas been painting?</p> <p>Enter your answer in the space provided.</p> <p style="text-align: center;"><input style="width: 50px;" type="text" value="6"/> days</p>	Numeric Entry														
5	<table border="1" style="margin: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 30%;">Line Segment</th> <th style="width: 70%;">Length (inches)</th> </tr> </thead> <tbody> <tr> <td>X</td> <td><input style="width: 40px;" type="text" value="3 3/4"/></td> </tr> <tr> <td>Y</td> <td><input style="width: 40px;" type="text" value="4"/></td> </tr> <tr> <td>Z</td> <td><input style="width: 40px;" type="text" value="2 3/4"/></td> </tr> </tbody> </table> <table style="margin: auto; border-collapse: collapse;"> <tr> <td style="border: 1px solid gray; padding: 5px; text-align: center;">$2\frac{1}{2}$</td> <td style="border: 1px solid gray; padding: 5px; text-align: center;">$2\frac{3}{4}$</td> <td style="border: 1px solid gray; padding: 5px; text-align: center;">3</td> </tr> <tr> <td style="border: 1px solid gray; padding: 5px; text-align: center;">$3\frac{1}{4}$</td> <td style="border: 1px solid gray; padding: 5px; text-align: center;">$3\frac{3}{4}$</td> <td style="border: 1px solid gray; padding: 5px; text-align: center;">4</td> </tr> </table>	Line Segment	Length (inches)	X	<input style="width: 40px;" type="text" value="3 3/4"/>	Y	<input style="width: 40px;" type="text" value="4"/>	Z	<input style="width: 40px;" type="text" value="2 3/4"/>	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{3}{4}$	4	Drag and Drop
Line Segment	Length (inches)															
X	<input style="width: 40px;" type="text" value="3 3/4"/>															
Y	<input style="width: 40px;" type="text" value="4"/>															
Z	<input style="width: 40px;" type="text" value="2 3/4"/>															
$2\frac{1}{2}$	$2\frac{3}{4}$	3														
$3\frac{1}{4}$	$3\frac{3}{4}$	4														

Item Number		Item Type
6	<p>Johnny sold 5 bags of nuts in the first hour. How many pounds of nuts did Johnny sell in the first hour?</p> <p>Enter your answer in the space provided.</p> <p><input type="text" value="10"/> pounds of nuts</p>	Numeric Entry
7	<p><input checked="" type="radio"/> 18 pounds</p>	Multiple Choice Single-Select
8	<p>What is the value of the following expression?</p> $308 + 97$ <p>Enter your answer in the space provided.</p> <p><input type="text" value="405"/></p>	Numeric Entry
9	<p><input checked="" type="radio"/> $\frac{2}{3} > \frac{2}{4}$</p>	Multiple Choice Single-Select
10	<p><input type="checkbox"/> Four right angles</p> <p><input checked="" type="checkbox"/> Exactly four sides</p> <p><input type="checkbox"/> Angles of different sizes</p> <p><input checked="" type="checkbox"/> Pairs of opposite sides with the same length</p> <p><input type="checkbox"/> Pairs of connected sides with the same length</p>	Multiple Choice Multiple-Select
11	<p><input checked="" type="radio"/> $\diamond \times \star = 35$</p>	Multiple Choice Single-Select
12	<p>Select a place on the number line to plot the point.</p> 	Zone
13	<p><input checked="" type="radio"/> 3</p>	Multiple Choice Single-Select
14	<p>How many pencils were in each box?</p> <p>Enter your answer in the space provided.</p> <p><input type="text" value="10"/> pencils</p>	Numeric Entry

Item Number		Item Type
15	<p>What is the total area of the shape, in square feet?</p> <p>Enter your answer in the space provided.</p> <p><input type="text" value="108"/> square feet</p>	Numeric Entry
16	<p><input checked="" type="radio"/> $6 \times (4 + 3)$</p>	Multiple Choice Single-Select
17	<p>At what time did Carter go outside to play?</p> <p>Enter your answer in the two spaces provided.</p> <p><input type="text" value="9"/> : <input type="text" value="21"/></p>	Multiple Numeric Entry
18	<p><input checked="" type="radio"/> </p>	Multiple Choice Single-Select
19	<p>Which two pairs of measurements could be the length and width of the window?</p> <p>Select the two correct answers.</p> <p><input type="checkbox"/> The length is 4 feet, and the width is 6 feet.</p> <p><input checked="" type="checkbox"/> The length is 7 feet, and the width is 5 feet.</p> <p><input type="checkbox"/> The length is 8 feet, and the width is 3 feet.</p> <p><input checked="" type="checkbox"/> The length is 9 feet, and the width is 3 feet.</p> <p><input type="checkbox"/> The length is 12 feet, and the width is 12 feet.</p> <p><input type="checkbox"/> The length is 14 feet, and the width is 10 feet.</p>	Multiple Choice Multiple-Select
20	<p>The result will always be an <input type="text" value="even"/> number, and the digit in the ones place will always be <input type="text" value="0"/>.</p>	Drop-Down
21	<p><math>8 \times \text{ <input type="text" value="6"/> } = 48</math></p> <p><math>\text{ <input type="text" value="7"/> } = 21 \div 3</math></p> <p><math>45 \div 9 = \text{ <input type="text" value="5"/> }</math></p>	Multiple Numeric Entry
22	<p><input checked="" type="radio"/> The fraction $\frac{2}{3}$ can be represented by 1 whole that is partitioned into 3 equal parts, of which 2 parts are shaded.</p>	Multiple Choice Single-Select

Item Number	Correct Answer	Item Type															
23	$1 = \frac{\boxed{4}}{4}$ $2 = \frac{\boxed{2}}{1}$	Multiple Numeric Entry															
24	The mass on the scale will increase from <input type="text" value="140"/> grams to <input type="text" value="390"/> grams.	Drop-Down															
25	<input checked="" type="radio"/> 14 square inches	Multiple Choice Single-Select															
26	<table border="1"> <thead> <tr> <th>Equation</th> <th>True</th> <th>False</th> </tr> </thead> <tbody> <tr> <td>$60 \times 4 = 240$</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>$5 \times 80 = 400$</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>$3 \times 40 = 700$</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td>$9 \times 80 = 170$</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> </tbody> </table>	Equation	True	False	$60 \times 4 = 240$	<input checked="" type="radio"/>	<input type="radio"/>	$5 \times 80 = 400$	<input checked="" type="radio"/>	<input type="radio"/>	$3 \times 40 = 700$	<input type="radio"/>	<input checked="" type="radio"/>	$9 \times 80 = 170$	<input type="radio"/>	<input checked="" type="radio"/>	Table
Equation	True	False															
$60 \times 4 = 240$	<input checked="" type="radio"/>	<input type="radio"/>															
$5 \times 80 = 400$	<input checked="" type="radio"/>	<input type="radio"/>															
$3 \times 40 = 700$	<input type="radio"/>	<input checked="" type="radio"/>															
$9 \times 80 = 170$	<input type="radio"/>	<input checked="" type="radio"/>															
27	<input checked="" type="radio"/> $4 \times 7 = 28$	Multiple Choice Single-Select															
28	<p>Move a number or symbol into each space.</p> <div style="border: 1px solid gray; padding: 5px; display: inline-block;"> <table style="border-collapse: collapse; text-align: center;"> <tr> <td style="border: 1px solid gray; padding: 2px 5px;">2</td> <td style="border: 1px solid gray; padding: 2px 5px;">6</td> <td style="border: 1px solid gray; padding: 2px 5px;">+</td> <td style="border: 1px solid gray; padding: 2px 5px;">-</td> </tr> <tr> <td style="border: 1px solid gray; padding: 2px 5px;">12</td> <td style="border: 1px solid gray; padding: 2px 5px;">24</td> <td colspan="2" style="border: 1px solid gray; padding: 2px 5px;">÷</td> </tr> </table> </div> <p>▲ = <input style="border: 1px solid gray; padding: 2px 5px;" type="text" value="6"/> <input style="border: 1px solid gray; padding: 2px 5px;" type="text" value="×"/> <input style="border: 1px solid gray; padding: 2px 5px;" type="text" value="12"/></p>	2	6	+	-	12	24	÷		Drag and Drop							
2	6	+	-														
12	24	÷															
29A	<p>Complete the following sentence to explain why point P represents $\frac{4}{6}$.</p> <p>Select from the lists of choices to complete the statement.</p> <p>Point P represents the fraction $\frac{4}{6}$ because the number line from 0 to 1 is partitioned into <input type="text" value="6"/> equal parts of size <input type="text" value="1/6"/> and the point is <input type="text" value="4"/> lengths of this size from 0.</p>	Drop-Down															

Item Number	Correct Answer	Item Type
29B	<p>Select from the lists of choices to complete the statement about the models that could be used.</p> <p>The models that could be used are Model J and</p> <p>Model K because</p> <p>the area of the shaded parts in each model is the same.</p>	Drop-Down
30A	<p>Example: Rafael can put 12 labels along the length of the board 8 times. $12 \times 8 = 96$ The least number of labels that Rafael needs to cover the board is 96.</p>	Written Response
30B	<p>Example: The least number of packages of labels that Rafael needs to buy is 16 because $96 \div 6 = 16$.</p> <p style="text-align: center;">OR</p> <p>Since there are 6 labels in each package, he needs 2 packages for each row. There will be 8 rows. $2 \times 8 = 16$</p>	Written Response

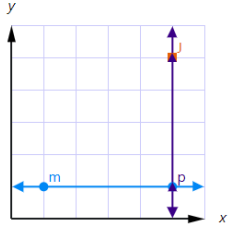
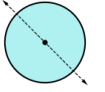
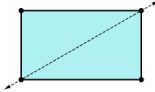
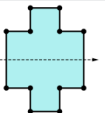
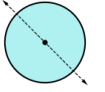
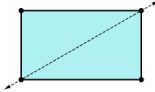
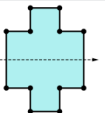
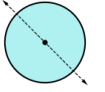
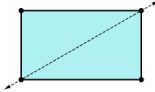
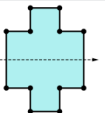
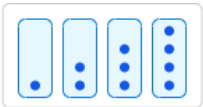
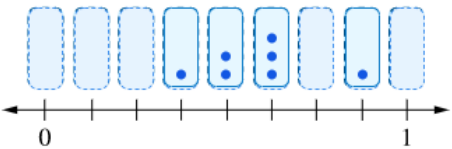
Math Written Response Rubric Grade 3

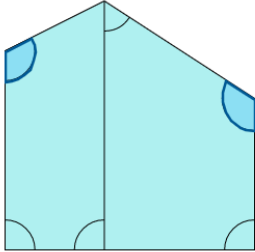
This question is worth 3 points. Each of the following components is worth 1 point.


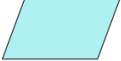
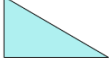

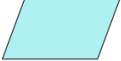
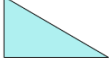

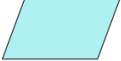
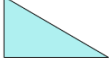
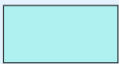
- In Part A, the response shows that the least number of labels needed to cover the board is 96.
- In Part B, the response shows that the least number of packages of labels that should be bought is 16.
 - NOTE: Correctly using an incorrect answer from Part A meets this component.
- In Parts A and B, the response shows understanding that numbers should be multiplied (or numbers should be repeatedly added) in Part A AND that numbers should be divided (or numbers should be repeatedly subtracted) in Part B OR shows that other appropriate strategies were used.

Mathematics Grade 4 Practice Test Answer Key

Item Number	Correct Answer	Item Type
1	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> 9 <input checked="" type="checkbox"/> 13 <input checked="" type="checkbox"/> 23 <input type="checkbox"/> 28 <input type="checkbox"/> 35	Multiple Choice Multiple-Select
2	<p>How many seats were empty?</p> <p>Enter your answer in the space provided.</p> <p style="text-align: center;">4683 seats</p>	Numeric Entry
3	<input checked="" type="radio"/> $\frac{6}{12} = \frac{4}{8}$	Multiple Choice Single-Select
4	<p>Select from the list of choices to complete the statement.</p> <p>Triangle XYZ is an obtuse triangle.</p>	Drop-Down
5	<div style="border: 1px solid gray; padding: 5px; width: fit-content; margin: 0 auto;">2</div> <hr style="width: 50%; margin: 5px auto;"/> <div style="border: 1px solid gray; padding: 5px; width: fit-content; margin: 0 auto;">8</div>	Fraction Entry
6	<input checked="" type="radio"/> $24 \times 3 + j = 80$	Multiple Choice Single-Select
7	<p>How many jars does Ms. Nagy's class need?</p> <p>Enter your answer in the space provided.</p> <p style="text-align: center;">20</p>	Numeric Entry

Item Number		Item Type												
8	<input checked="" type="radio"/> $0.06 < 0.10$	Multiple Choice Single-Select												
9		Graphing												
10	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td style="text-align: center;">20</td> <td style="text-align: center;">+ 6</td> </tr> <tr> <td style="text-align: center;">10</td> <td style="text-align: center;"><input type="text" value="200"/></td> <td style="text-align: center;"><input type="text" value="60"/></td> </tr> <tr> <td style="text-align: center;">+</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">8</td> <td style="text-align: center;"><input type="text" value="160"/></td> <td style="text-align: center;"><input type="text" value="48"/></td> </tr> </table> <p style="text-align: center;">$26 \times 18 =$ <input type="text" value="468"/></p>		20	+ 6	10	<input type="text" value="200"/>	<input type="text" value="60"/>	+			8	<input type="text" value="160"/>	<input type="text" value="48"/>	Drag and Drop
	20	+ 6												
10	<input type="text" value="200"/>	<input type="text" value="60"/>												
+														
8	<input type="text" value="160"/>	<input type="text" value="48"/>												
11	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Shape</th> <th style="text-align: center;">Appears to Be a Line of Symmetry</th> <th style="text-align: center;">Does Not Appear to Be a Line of Symmetry</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"></td> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/></td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> </tbody> </table>	Shape	Appears to Be a Line of Symmetry	Does Not Appear to Be a Line of Symmetry		<input checked="" type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input checked="" type="radio"/>		<input checked="" type="radio"/>	<input type="radio"/>	Table
Shape	Appears to Be a Line of Symmetry	Does Not Appear to Be a Line of Symmetry												
	<input checked="" type="radio"/>	<input type="radio"/>												
	<input type="radio"/>	<input checked="" type="radio"/>												
	<input checked="" type="radio"/>	<input type="radio"/>												
12	<input checked="" type="radio"/> 32°	Multiple Choice Single-Select												
13	<input checked="" type="radio"/> $\frac{4}{8} < \frac{3}{5}$	Multiple Choice Single-Select												
14	<p style="text-align: center;"></p> <p style="text-align: center;">Lengths of Lizards</p> <p style="text-align: center;"></p> <p style="text-align: center;">Length (feet)</p>	Drag and Drop												

Item Number		Item Type
15	$\frac{38}{100}$	Fraction Entry
16	<input checked="" type="radio"/> $(1,400 \div 7) + (35 \div 7)$	Multiple Choice Single-Select
17		Zone
18	<p>Enter your answer in the space provided.</p> <input type="text" value="2.05"/>	Numeric Entry
19	<input type="text" value="3"/> , <input type="text" value="10"/> , <input type="text" value="17"/> , <input type="text" value="24"/>	Multiple Numeric Entry
20	<input type="checkbox"/> $\frac{1}{6} + \frac{8}{2}$ <input type="checkbox"/> $\frac{4}{1} + \frac{4}{12}$ <input type="checkbox"/> $\frac{4}{10} + \frac{4}{2}$ <input checked="" type="checkbox"/> $\frac{1}{12} + \frac{7}{12}$ <input type="checkbox"/> $\frac{3}{4} + \frac{3}{4} + \frac{2}{4}$ <input checked="" type="checkbox"/> $\frac{3}{12} + \frac{3}{12} + \frac{2}{12}$	Multiple Choice Multiple-Select
21	<input type="text" value="60000"/> meters	Numeric Entry

Item Number		Item Type												
22	<table border="1"> <thead> <tr> <th data-bbox="524 191 662 237">Shape</th> <th data-bbox="662 191 834 237">Appears to Have Parallel Sides</th> <th data-bbox="834 191 1005 237">Appears to Have a Right Angle</th> </tr> </thead> <tbody> <tr> <td data-bbox="524 237 662 317"></td> <td data-bbox="662 237 834 317"><input checked="" type="checkbox"/></td> <td data-bbox="834 237 1005 317"><input checked="" type="checkbox"/></td> </tr> <tr> <td data-bbox="524 317 662 396"></td> <td data-bbox="662 317 834 396"><input checked="" type="checkbox"/></td> <td data-bbox="834 317 1005 396"><input type="checkbox"/></td> </tr> <tr> <td data-bbox="524 396 662 476"></td> <td data-bbox="662 396 834 476"><input type="checkbox"/></td> <td data-bbox="834 396 1005 476"><input checked="" type="checkbox"/></td> </tr> </tbody> </table>	Shape	Appears to Have Parallel Sides	Appears to Have a Right Angle		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Table
Shape	Appears to Have Parallel Sides	Appears to Have a Right Angle												
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
	<input checked="" type="checkbox"/>	<input type="checkbox"/>												
	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
23	<input type="radio"/> 40 × 12	Multiple Choice Single-Select												
24	<input checked="" type="radio"/> $\frac{15}{4}$	Multiple Choice Single-Select												
25	<input type="text" value="4000"/> grams	Numeric Entry												
26	<p>Enter your answer in the space provided.</p> <input type="text" value="800000"/>	Numeric Entry												
27	<p>All angles are formed by two <input type="text" value="rays"/> that share a common <input type="text" value="endpoint"/>.</p>	Drop-Down												
28	<input checked="" type="radio"/> 	Multiple Choice Single-Select												
29A	<p>Enter your answer in the space provided.</p> <input type="text" value="36"/> feet	Numeric Entry												
29B	<p>Enter your answer in the space provided.</p> <input type="text" value="72"/> square feet	Numeric Entry												
29C	<p>For Plan F, the cost of the carpet is <input type="text" value="greater than"/> the cost of the carpet for Plan G. For Plan F, the cost of the border is <input type="text" value="equal to"/> the cost of the border for Plan G. Hubert will choose <input type="text" value="Plan G"/>.</p>	Drop-Down												
30	<p>The 8 in 8,439 represents a value of <input type="text" value="8,000"/>, while the 2 in 23,857 represents a value of <input type="text" value="20,000"/>.</p>	Drop-Down												

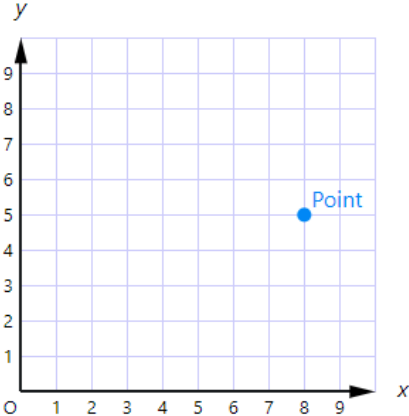
Item Number	Correct Answer	Item Type
30B	<input checked="" type="radio"/> 746 and 512	Multiple Choice Single-Select
30C	<p>Example: Mr. Fluit's numbers have different numbers of digits, so comparing the first digit of each number does not result in a correct comparison because the place value is different.</p> <p>The numbers I picked in Part B have the same number of digits, and the first digit of each number is different. Since the first digit of each number has the same place value, the number with the greater first digit is the greater number.</p>	Written Response

Math Written Response Rubric Grade 4

This question is worth 3 points. Each of the following components is worth 1 point.

- In Part A, the response is correct.
- In Part B, the response is correct.
- In Part C, the response shows an understanding that place value is the reason why Joni's method does not always result in a correct comparison of numbers that each have a different number of digits.

Mathematics Grade 5 Practice Test Answer Key

Item Number	Correct Answer	Item Type
1	<input checked="" type="radio"/> $2\frac{1}{2}$	Multiple Choice Single-Select
2	<input checked="" type="radio"/> 432 cubic feet	Multiple Choice Single-Select
3		Graphing
4	<input checked="" type="radio"/> 18.75 square feet	Multiple Choice Single-Select
5	<input checked="" type="radio"/> $7\frac{8}{10}$	Multiple Choice Single-Select
6	<input checked="" type="radio"/> 15 gallons	Multiple Choice Single-Select
7	<p>Enter your answer in the space provided.</p> <p style="text-align: center;"><input type="text" value="17"/></p>	Numeric Entry
8	<p>Quotient: <input type="text" value="161"/></p> <p>Remainder: <input type="text" value="15"/></p>	Multiple Numeric Entry
9	<input checked="" type="radio"/> $\frac{3}{8}$	Multiple Choice Single-Select

Item Number		Item Type									
10	$\frac{3}{8}$	Fraction Entry									
11	<input checked="" type="radio"/> 45 cubic units	Multiple Choice Single-Select									
12	The point is 2 units <input type="text" value="above"/> the <input type="text" value="x-axis"/> .	Drop-Down									
13	<input type="text" value="18500"/> grams	Numeric Entry									
14	Each term in pattern H is <input type="text" value="6"/> more than <input type="text" value=""/> the corresponding term in pattern G.	Drop-Down									
15	<p>Enter your answer in the space provided.</p> <input type="text" value=".85"/>	Numeric Entry									
16	$\frac{17}{30}$	Fraction Entry									
17	<table border="1"> <thead> <tr> <th>Statement</th> <th>True</th> <th>False</th> </tr> </thead> <tbody> <tr> <td>Volumes of prisms can be expressed in square units.</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td>A prism made from 10 unit cubes has a volume of 10 cubic units.</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> </tbody> </table>	Statement	True	False	Volumes of prisms can be expressed in square units.	<input type="radio"/>	<input checked="" type="radio"/>	A prism made from 10 unit cubes has a volume of 10 cubic units.	<input checked="" type="radio"/>	<input type="radio"/>	Table
Statement	True	False									
Volumes of prisms can be expressed in square units.	<input type="radio"/>	<input checked="" type="radio"/>									
A prism made from 10 unit cubes has a volume of 10 cubic units.	<input checked="" type="radio"/>	<input type="radio"/>									
18	<input checked="" type="radio"/> All rectangles are quadrilaterals. <input checked="" type="radio"/> All quadrilaterals have 4 sides. <input type="radio"/> Thus, all rectangles have 4 sides.	Multiple Choice Single-Select									
19	<input checked="" type="radio"/> 22,655	Multiple Choice Single-Select									
20	Ada walked between <input type="text" value="5 and 6"/> miles this week.	Drop-Down									

Item Number		Item Type												
21	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">5 more than the product of 7 and 8</td> <td style="padding: 5px; border: 1px dashed blue;">$5 + 7 \times 8$</td> </tr> <tr> <td style="padding: 5px;">8 more than the product of 5 and 7</td> <td style="padding: 5px; border: 1px dashed blue;">$5 \times 7 + 8$</td> </tr> <tr> <td style="padding: 5px;">5 times the sum of 7 and 8</td> <td style="padding: 5px; border: 1px dashed blue;">$5 \times (7 + 8)$</td> </tr> <tr> <td style="padding: 5px;">8 times the sum of 5 and 7</td> <td style="padding: 5px; border: 1px dashed blue;">$(5 + 7) \times 8$</td> </tr> </table>	5 more than the product of 7 and 8	$5 + 7 \times 8$	8 more than the product of 5 and 7	$5 \times 7 + 8$	5 times the sum of 7 and 8	$5 \times (7 + 8)$	8 times the sum of 5 and 7	$(5 + 7) \times 8$	Drag and Drop				
5 more than the product of 7 and 8	$5 + 7 \times 8$													
8 more than the product of 5 and 7	$5 \times 7 + 8$													
5 times the sum of 7 and 8	$5 \times (7 + 8)$													
8 times the sum of 5 and 7	$(5 + 7) \times 8$													
22	<p style="text-align: center;">Enter your answer in the space provided.</p> <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; width: fit-content; margin: 0 auto;">3127</div>	Numeric Entry												
23	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">Statement</th> <th style="padding: 5px;">True</th> <th style="padding: 5px;">False</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">The total number of jars is 7.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/></td> </tr> <tr> <td style="padding: 5px;">If all of the sand is equally redistributed among the jars, each jar would contain $\frac{4}{8}$ cup.</td> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td style="padding: 5px;">The difference between the amount of sand in the jar that contains the most sand and the amount in the jar that contains the least sand is $\frac{5}{8}$ cup.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/></td> </tr> </tbody> </table>	Statement	True	False	The total number of jars is 7.	<input type="radio"/>	<input checked="" type="radio"/>	If all of the sand is equally redistributed among the jars, each jar would contain $\frac{4}{8}$ cup.	<input checked="" type="radio"/>	<input type="radio"/>	The difference between the amount of sand in the jar that contains the most sand and the amount in the jar that contains the least sand is $\frac{5}{8}$ cup.	<input type="radio"/>	<input checked="" type="radio"/>	Table
Statement	True	False												
The total number of jars is 7.	<input type="radio"/>	<input checked="" type="radio"/>												
If all of the sand is equally redistributed among the jars, each jar would contain $\frac{4}{8}$ cup.	<input checked="" type="radio"/>	<input type="radio"/>												
The difference between the amount of sand in the jar that contains the most sand and the amount in the jar that contains the least sand is $\frac{5}{8}$ cup.	<input type="radio"/>	<input checked="" type="radio"/>												
24	<p style="text-align: center;">Vegetables</p>	Zone												
25	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">There is $\frac{1}{5}$ package of paper to be shared evenly among 4 teachers. What fraction of the whole package will each teacher get?</td> <td style="padding: 5px; border: 1px solid gray;">$\frac{1}{5} \div 4$</td> </tr> <tr> <td style="padding: 5px;">A teacher will place paper from 4 packages into stacks. Each stack will be $\frac{1}{5}$ of a whole package. How many stacks will there be?</td> <td style="padding: 5px; border: 1px solid gray;">$4 \div \frac{1}{5}$</td> </tr> </table>	There is $\frac{1}{5}$ package of paper to be shared evenly among 4 teachers. What fraction of the whole package will each teacher get?	$\frac{1}{5} \div 4$	A teacher will place paper from 4 packages into stacks. Each stack will be $\frac{1}{5}$ of a whole package. How many stacks will there be?	$4 \div \frac{1}{5}$	Drag and Drop								
There is $\frac{1}{5}$ package of paper to be shared evenly among 4 teachers. What fraction of the whole package will each teacher get?	$\frac{1}{5} \div 4$													
A teacher will place paper from 4 packages into stacks. Each stack will be $\frac{1}{5}$ of a whole package. How many stacks will there be?	$4 \div \frac{1}{5}$													
26	<div style="border: 1px solid gray; border-radius: 10px; padding: 5px; width: fit-content; margin: 0 auto;"> <input checked="" type="radio"/> 24 </div>	Multiple Choice Single-Select												
27	<div style="border: 1px solid gray; border-radius: 10px; padding: 5px; width: fit-content; margin: 0 auto;">305 cubic centimeters</div>	Numeric Entry												

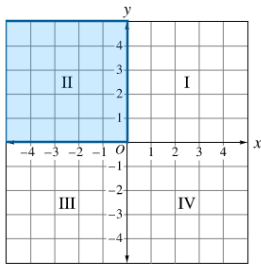
Item Number	Correct Answer	Item Type															
28	<table border="1"> <thead> <tr> <th>Statement</th> <th>Correct</th> <th>Incorrect</th> </tr> </thead> <tbody> <tr> <td>$(8 \times 10) + \left(6 \times \frac{1}{100}\right) + \left(5 \times \frac{1}{1,000}\right) < 80.65$</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>$(7 \times 1) + \left(4 \times \frac{1}{10}\right) + \left(6 \times \frac{1}{1,000}\right) = 7.46$</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td>Two and twenty-nine hundredths < 2.3</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Three and seven hundredths = 3.07</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> </tbody> </table>	Statement	Correct	Incorrect	$(8 \times 10) + \left(6 \times \frac{1}{100}\right) + \left(5 \times \frac{1}{1,000}\right) < 80.65$	<input checked="" type="radio"/>	<input type="radio"/>	$(7 \times 1) + \left(4 \times \frac{1}{10}\right) + \left(6 \times \frac{1}{1,000}\right) = 7.46$	<input type="radio"/>	<input checked="" type="radio"/>	Two and twenty-nine hundredths < 2.3	<input checked="" type="radio"/>	<input type="radio"/>	Three and seven hundredths = 3.07	<input checked="" type="radio"/>	<input type="radio"/>	Table
Statement	Correct	Incorrect															
$(8 \times 10) + \left(6 \times \frac{1}{100}\right) + \left(5 \times \frac{1}{1,000}\right) < 80.65$	<input checked="" type="radio"/>	<input type="radio"/>															
$(7 \times 1) + \left(4 \times \frac{1}{10}\right) + \left(6 \times \frac{1}{1,000}\right) = 7.46$	<input type="radio"/>	<input checked="" type="radio"/>															
Two and twenty-nine hundredths < 2.3	<input checked="" type="radio"/>	<input type="radio"/>															
Three and seven hundredths = 3.07	<input checked="" type="radio"/>	<input type="radio"/>															
29A	<input checked="" type="radio"/> $n = \frac{1}{2}$, because $\frac{1}{2} \times 5 = \frac{5}{2}$ and $\frac{5}{2} < 5$.	Multiple Choice Single-Select															
29B	<p>Step One: Ted's claim is incorrect because when a number x is multiplied by a fraction less than 1, then the product is <input type="text" value="less than"/> x.</p> <p>Step Two: When the value of $n \times 5$ is greater than or equal to 5, n is <input type="text" value="greater than or equal to 1"/>.</p>	Drop-Down															
30	<p>Example: The volume of each small box is $6 \times 6 \times 4 = 144$ cubic inches. The volume of each carton is $36 \times 36 \times 36 = 46,656$ cubic inches. Since there are 972 small boxes, a total of $144 \times 972 = 139,968$ cubic inches of space is needed. $139,968 \div 46,656 = 3$; 3 cartons are needed.</p> <p style="text-align: center;">OR</p> <p>Since $36 \div 6 = 6$, $36 \div 6 = 6$, and $36 \div 4 = 9$, so 6 boxes would fit along the length, 6 boxes would fit along the depth, and 9 boxes would fit along the height. Then the total number of small boxes in each carton is $6 \times 6 \times 9 = 324$ boxes. Dividing 972 boxes by 324 boxes = 3 cartons.</p>	Written response															

Math Written Response Rubric Grade 5

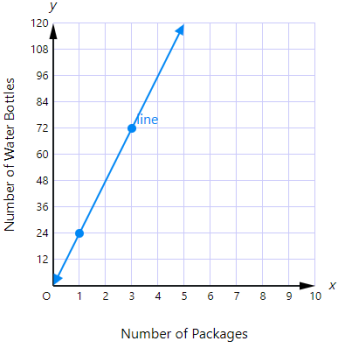
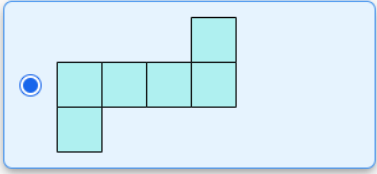
This question is worth 3 points. Each of the following components is worth 1 point.

- The response shows that the volume of one small box and the carton should be calculated OR that the number of boxes that fit in each carton should be calculated.
- The response shows that the total volume of 972 small boxes should be divided by the total volume of one carton OR that the total number of boxes should be divided by the number of boxes that fit in 1 carton.
 - This component is met if the response correctly uses one or more incorrect values.
- The response shows a correct answer of 3 cartons.
 - This component is met if the response correctly uses incorrect volumes and/or numbers of boxes.
 - Units are not needed to meet this component.

Mathematics Grade 6 Practice Test Answer Key

Item Number	Correct Answer	Item Type									
1	<input checked="" type="radio"/> 77.6	Multiple Choice Single-Select									
2	The number $-7\frac{1}{2}$ would be to the <input type="text" value="left"/> of -7 on a horizontal number line because $-7\frac{1}{2} < -7$.	Drop-Down									
3	Enter your answer in the space provided. <input type="text" value="9"/>	Numeric Entry									
4		Zone									
5	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th style="text-align: center;">Equivalent to $6\frac{3}{4} \div \frac{9}{10}$</th> <th style="text-align: center;">Not Equivalent to $6\frac{3}{4} \div \frac{9}{10}$</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">$6\frac{3}{4} \div 9 \div 10$</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/></td> </tr> <tr> <td style="text-align: center;">$\frac{24+3}{4} \cdot \frac{10}{9}$</td> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> </tbody> </table>		Equivalent to $6\frac{3}{4} \div \frac{9}{10}$	Not Equivalent to $6\frac{3}{4} \div \frac{9}{10}$	$6\frac{3}{4} \div 9 \div 10$	<input type="radio"/>	<input checked="" type="radio"/>	$\frac{24+3}{4} \cdot \frac{10}{9}$	<input checked="" type="radio"/>	<input type="radio"/>	Table
	Equivalent to $6\frac{3}{4} \div \frac{9}{10}$	Not Equivalent to $6\frac{3}{4} \div \frac{9}{10}$									
$6\frac{3}{4} \div 9 \div 10$	<input type="radio"/>	<input checked="" type="radio"/>									
$\frac{24+3}{4} \cdot \frac{10}{9}$	<input checked="" type="radio"/>	<input type="radio"/>									
6	<input type="text" value="24"/> balloon arrangements	Numeric - Member									
7	\$ <input type="text" value="41.95"/>	Numeric - Member									
8	<input checked="" type="radio"/> 1 to 4	Multiple Choice Single-Select									
9	<input checked="" type="radio"/> $3y - 1$	Multiple Choice Single-Select									
10	<input type="text" value="60"/> cubes	Numeric Entry									

Item Number	Correct Answer	Item Type
11	<p>The weights that are less than the median display <input type="text" value="more"/> variability than the weights that are greater than the median. For this set of data, the <input type="text" value="median"/> is a better measure of center.</p>	Drop-Down
12	<input checked="" type="radio"/> 9	Multiple Choice Single-Select
13	<input type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 10 <input checked="" type="checkbox"/> 11	Multiple Choice Multiple-Select
14	<input checked="" type="radio"/> 10, 20, 20, 25, 25, 28, 30, 30, 40	Multiple Choice Single-Select
15	<p>Alexei learns how to spell <input type="text" value="25"/> words per hour. At this rate, he will learn how to spell 500 words in <input type="text" value="20"/> hours.</p>	Drop-Down
16	<input type="text" value="w"/> <input type="text" value="-"/> <input type="text" value="3"/>	Drag and Drop
17	<input checked="" type="radio"/> 18	Multiple Choice Single-Select
18	<input checked="" type="checkbox"/> 6 white marbles and 9 red marbles <input type="checkbox"/> 12 white marbles and 13 red marbles <input checked="" type="checkbox"/> 14 white marbles and 21 red marbles <input checked="" type="checkbox"/> 22 white marbles and 33 red marbles <input type="checkbox"/> 36 white marbles and 39 red marbles	Multiple Choice Multiple-Select
19	<input type="text" value="1125"/> dollars	Numeric Entry
20	<input checked="" type="radio"/> What is today's date?	Multiple Choice Single-Select

Item Number	Correct Answer	Item Type
21		Graphing
22	<input type="text" value="125"/> refrigerators	Numeric Entry
23		Multiple Choice Single-Select
24	<p>The graph will be a ray that starts at <input type="text" value="15"/> and points to the <input type="text" value="left"/>.</p> <p>The graph <input type="text" value="will"/> include the endpoint of the ray.</p>	Drop-Down
25	<input type="text" value="30"/> miles per gallon	Numeric Entry
26	<input checked="" type="checkbox"/> (-4, 2) <input checked="" type="checkbox"/> (1, -3) <input type="checkbox"/> (1, 6) <input type="checkbox"/> (4, 2) <input checked="" type="checkbox"/> (6, 2)	Multiple Choice Multiple-Select
27	<p>Enter your answer in the space provided.</p> <input type="text" value="6"/>	Numeric Entry
28	<input checked="" type="radio"/> $3(12n + p) - n$	Multiple Choice Single-Select

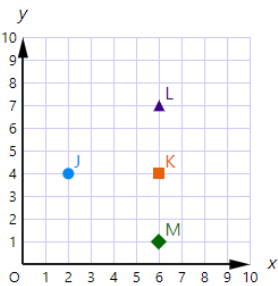
Item Number	Correct Answer	Item Type								
29A	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px;">Least expensive</td> <td style="padding: 5px; text-align: center;">Store K</td> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px; text-align: center;">Store M</td> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px; text-align: center;">Store L</td> </tr> <tr> <td style="padding: 5px;">Most expensive</td> <td style="padding: 5px; text-align: center;">Store J</td> </tr> </table>	Least expensive	Store K		Store M		Store L	Most expensive	Store J	Drag and Drop
Least expensive	Store K									
	Store M									
	Store L									
Most expensive	Store J									
29B	<input style="width: 100px; border: 1px solid gray;" type="text" value="1200"/> dollars	Numeric Entry								
30A	<p>Jacob's claim is not valid. The information provided about the net can be used to find the area of each of the five faces of the prism, and the surface area of the prism can be found by adding the areas of the five faces. Each rectangular face has a width and a height that are shown in the figure, and the area of a rectangular face is found by multiplying the width by the height, so the areas of these three faces are $5\left(7\frac{1}{2}\right)$ square inches, $6\left(7\frac{1}{2}\right)$ square inches, and $5\left(7\frac{1}{2}\right)$ square inches. One of the triangular faces has a base of length of 6 inches and a height of 4 inches, and the area of this triangular face is found by multiplying $\frac{1}{2}$ by the base by the height, so the area of this face is $\frac{1}{2}(6)(4) = 12$ square inches. The second triangular face must have the same side lengths and area as the first triangular face because the net can be folded to form a prism with two triangular faces and three rectangular faces, so the area of the second triangular face is also 12 square inches. The surface area of the prism is $5\left(7\frac{1}{2}\right) + 6\left(7\frac{1}{2}\right) + 5\left(7\frac{1}{2}\right) + \left(\frac{1}{2}(6)(4)\right) + 12 = 144$ square inches.</p>	Written Response								
30B	<p>Sophia's claim is not valid. If she doubles the lengths of each of the $7\frac{1}{2}$-inch edges of the prism, then she doubles the heights of the rectangular faces but she does not change the widths of the rectangular faces. Also, she does not change the bases of the triangular faces, and she does not change the heights of the triangular faces. She doubles the areas of the rectangular faces but does not change the areas of the triangular faces, so she does not double the surface area of the prism. The sum of the areas of the rectangular faces is $5\left(7\frac{1}{2}\right) + 6\left(7\frac{1}{2}\right) + 5\left(7\frac{1}{2}\right) = 120$ square inches, and she changes this area to $5(15) + 6(15) + 5(15) = 240$ if she doubles the lengths of the $7\frac{1}{2}$-inch edges. The surface area increases by $240 - 120 = 120$ square inches if she doubles the lengths of the $7\frac{1}{2}$-inch edges.</p>	Written Response								

Math Written Response Rubric Grade 6

This question is worth 3 points. Each of the following components is worth 1 point.

- In part A, the response explains that the claim is not valid and provides evidence of understanding how to find the surface area of the prism.
- In part A, the response gives the correct surface area: 144 square inches.
- In part B, the response explains that the claim is not valid and provides evidence of understanding why the surface area of the prism does not double if Sophia doubles the lengths of the 7.5-inch edges.
- In part B, the response gives the correct increase in the surface area of the prism if Sophia doubles the lengths of the 7.5-inch edges: 120 square inches.

Mathematics Grade 7 Practice Test Answer Key

Item Number	Correct Answer	Item Type
1	<input checked="" type="radio"/> $-3.5 + 2.5$	Multiple Choice Single-Select
2	The city with the greatest difference in low and high temperatures was <input type="text" value="Lima"/> . The city with the least difference in low and high temperatures was <input type="text" value="Helena"/> .	Drop-Down
3	$\frac{-5}{6}$	Fraction Entry
4	<input checked="" type="radio"/> 28 hours	Multiple Choice Single-Select
5	<input checked="" type="checkbox"/> $1.15p$ <input type="checkbox"/> $\frac{15}{100}p$ <input type="checkbox"/> $p + 15$ <input checked="" type="checkbox"/> $p + 0.15p$ <input type="checkbox"/> $p + 1.15p$	Multiple Choice Multiple-Select
6	<input type="text" value="40"/> copies per minute	Numeric Entry
7		Graphing
8	<input checked="" type="radio"/> 20,000	Multiple Choice Single-Select

Item Number		Item Type						
9	<input type="text" value="90"/> people	Numeric Entry						
10	Manuel's scores tended to be <input type="text" value="less than"/> Akira's scores. Manuel's scores displayed <input type="text" value="more"/> variability compared to Akira's scores.	Drop-Down						
11		Zone						
12	<input checked="" type="radio"/> $y = 0.5x$	Multiple Choice Single-Select						
13	<input checked="" type="radio"/> 18	Multiple Choice Single-Select						
14	<table border="1"> <thead> <tr> <th>Unlikely</th> <th>Neither likely nor unlikely</th> <th>Likely</th> </tr> </thead> <tbody> <tr> <td><input type="text" value="Event L"/></td> <td><input type="text" value="Event J"/></td> <td><input type="text" value="Event K"/></td> </tr> </tbody> </table>	Unlikely	Neither likely nor unlikely	Likely	<input type="text" value="Event L"/>	<input type="text" value="Event J"/>	<input type="text" value="Event K"/>	Drag and Drop
Unlikely	Neither likely nor unlikely	Likely						
<input type="text" value="Event L"/>	<input type="text" value="Event J"/>	<input type="text" value="Event K"/>						
15	<input checked="" type="radio"/> 16π	Multiple Choice Single-Select						
16	<input checked="" type="radio"/> 300	Multiple Choice Single-Select						
17	<input type="text" value="7"/> square centimeters	Numeric Entry						
18	<input checked="" type="radio"/> Only the group of men	Multiple Choice Single-Select						
19	<input checked="" type="radio"/> 56	Multiple Choice Single-Select						
20	<input type="text" value="100"/> square feet per hour	Numeric Entry						

Item Number		Item Type												
21	<input checked="" type="checkbox"/> $w + x = 90$ <input type="checkbox"/> $w + y = 110$ <input type="checkbox"/> $x + y = 90$ <input checked="" type="checkbox"/> $y - w = 90$ <input checked="" type="checkbox"/> $w + x + y = 200$	Multiple Choice Multiple-Select												
22	<div style="border: 1px dashed gray; padding: 2px; display: inline-block;">28</div> $w +$ <div style="border: 1px dashed gray; padding: 2px; display: inline-block;">26</div>	Drag and Drop												
23	<input checked="" type="radio"/> \$85.68	Multiple Choice Single-Select												
24	The graph will be a ray that starts near <input type="text" value="-0.9"/> and points to the <input type="text" value="right"/> . The solution set <input type="text" value="will"/> include the endpoint of the ray.	Drop-Down												
25	<input checked="" type="checkbox"/> A square <input type="checkbox"/> A hexagon <input checked="" type="checkbox"/> A rectangle that is not a square <input type="checkbox"/> A triangle with 3 equal side lengths <input type="checkbox"/> A triangle with 3 different side lengths	Multiple Choice Multiple-Select												
26	$\frac{3}{4}$	Fraction Entry												
27	<input checked="" type="radio"/> 16	Multiple Choice Single-Select												
28	<table border="1" style="border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Proportional</th> <th>Not Proportional</th> </tr> </thead> <tbody> <tr> <td>Table J</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td>Table K</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Table L</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> </tbody> </table>		Proportional	Not Proportional	Table J	<input type="radio"/>	<input checked="" type="radio"/>	Table K	<input checked="" type="radio"/>	<input type="radio"/>	Table L	<input checked="" type="radio"/>	<input type="radio"/>	Table
	Proportional	Not Proportional												
Table J	<input type="radio"/>	<input checked="" type="radio"/>												
Table K	<input checked="" type="radio"/>	<input type="radio"/>												
Table L	<input checked="" type="radio"/>	<input type="radio"/>												
29A	<input type="text" value="875"/> students	Composite - Discrete												
29B	The enrollment in the third year can be represented by the <input type="text" value="product"/> of 625 and <input type="text" value="(1.12 · 1.25)"/> .	Drop-Down												
29C	Based on the enrollment, the school district <input type="text" value="will"/> build a new school because the enrollment at the existing school increased by <input type="text" value="more"/> than 38% from the first year to the third year.	Drop-Down												

Item Number	Correct Answer	Item Type
30A	Morgan’s claim is not correct. The floor of her old bedroom is a square with an area of (12 feet) (12 feet) = 144 square feet. In the scale drawing, 1 inch represents 2 feet, so 4.5 inches represent 9 feet and 7 inches represent 14 feet. The floor of the new bedroom is a rectangle with a length of 14 feet and a width of 9 feet. The area of the floor of the new bedroom is (14 feet) (9 feet) = 126 square feet. The area of the floor of the new bedroom is less than the area of the floor of the old bedroom.	Written Response
30B	Morgan’s claim is not correct. Based on the scale drawing, the length of the wall with a window is 9 feet, which is equal to 108 inches, since 1 foot is equal to 12 inches. If Morgan arranges the desk and chair at the foot of the bed so that she can sit at the desk, the total length of the bed, desk, and chair will be at least 81 inches + 34 inches = 115 inches. Since 115 inches is greater than the length of the wall with a window, Morgan cannot arrange her furniture as she claims.	Written Response

Math Written Response Rubric Grade 7

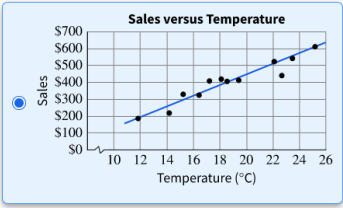
This question is worth 4 points. Each of the following components is worth 1 point.

- In Part A, the response shows evidence of understanding how to correctly apply a given scale factor to find either dimension of the new bedroom floor, in feet.
- In Part A, the response includes the areas of both floors, in square inches or square feet.
- In Part A, the response shows evidence of understanding that the claim is incorrect and the reasons why.
 - NOTE: A response that includes an explanation based on correctly comparing incorrect areas meets this component.
- In Part B, the response shows evidence of understanding that the claim is incorrect and the reason why.
 - NOTE: A response that includes an explanation based on correctly comparing the sum of 81 and 31 with an incorrectly calculated width, in feet, meets this component.

Mathematics Grade 8 Practice Test Answer Key

Item Number	Correct Answer	Item Type
1	<input checked="" type="radio"/> $\frac{1}{8}$	Multiple Choice Single-Select
2	<input checked="" type="radio"/> $\pm \frac{7}{4}$	Multiple Choice Single-Select
3	The minimum distance from Earth to Mars is approximately 1.57×10^2 times the minimum distance from Earth to the Moon.	Drop-Down
4	<input checked="" type="checkbox"/> -72 <input checked="" type="checkbox"/> $\frac{4}{5}$ <input type="checkbox"/> $\sqrt{6}$ <input type="checkbox"/> $\sqrt{\frac{5}{16}}$ <input checked="" type="checkbox"/> $\sqrt{100}$	Multiple Choice Multiple-Select
5	<input checked="" type="radio"/>	Multiple Choice Single-Select
6		Graphing

Item Number		Item Type																
7	<table border="1"> <thead> <tr> <th></th> <th>No Solution</th> <th>Exactly One Solution</th> <th>Infinitely Many Solutions</th> </tr> </thead> <tbody> <tr> <td>$9x + 7 = 8x + 7$</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>$8x + 7 = 8x + 7$</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td>$9x + 5 = 9x + 7$</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> </tbody> </table>		No Solution	Exactly One Solution	Infinitely Many Solutions	$9x + 7 = 8x + 7$	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	$8x + 7 = 8x + 7$	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	$9x + 5 = 9x + 7$	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Table
	No Solution	Exactly One Solution	Infinitely Many Solutions															
$9x + 7 = 8x + 7$	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>															
$8x + 7 = 8x + 7$	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>															
$9x + 5 = 9x + 7$	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>															
8	<input type="text" value="20"/> degrees	Numeric Entry																
9		Graphing																
10	<input checked="" type="radio"/> $y = -\frac{1}{2}x - 2$	Multiple Choice Single-Select																
11		Zone																
12	<input checked="" type="radio"/> $y = 15x + 300$	Multiple Choice Single-Select																
13	<table border="1"> <thead> <tr> <th>Mapping</th> <th>Transformation</th> </tr> </thead> <tbody> <tr> <td>Triangle XYZ to triangle $X'Y'Z'$</td> <td>Reflection across the y-axis</td> </tr> <tr> <td>Triangle $X'Y'Z'$ to triangle $X''Y''Z''$</td> <td>90° counterclockwise rotation about the origin</td> </tr> </tbody> </table>	Mapping	Transformation	Triangle XYZ to triangle $X'Y'Z'$	Reflection across the y -axis	Triangle $X'Y'Z'$ to triangle $X''Y''Z''$	90° counterclockwise rotation about the origin	Drag and Drop										
Mapping	Transformation																	
Triangle XYZ to triangle $X'Y'Z'$	Reflection across the y -axis																	
Triangle $X'Y'Z'$ to triangle $X''Y''Z''$	90° counterclockwise rotation about the origin																	
14	<table style="margin-left: auto; margin-right: auto;"> <tr> <td style="border: 1px solid gray; padding: 5px; text-align: center;">2</td> </tr> <tr> <td style="border: 1px solid gray; padding: 5px; text-align: center;">1</td> </tr> </table>	2	1	Fraction Entry														
2																		
1																		
15	<input checked="" type="radio"/> From P to Q	Multiple Choice Single-Select																
16	<p>The total amount raised from selling 40 key chains is <input type="text" value="less"/> than the total amount raised from selling 40 coffee cups by <input type="text" value="2"/> dollars.</p>	Drop-Down																

Item Number		Item Type				
17		Multiple Choice Single-Select				
18	<input checked="" type="radio"/> 108π	Multiple Choice Single-Select				
19	<input checked="" type="checkbox"/> $y - 1 = \frac{4}{x^2} - \frac{x^2}{4}$ <input type="checkbox"/> $5 = -2x - 3 + y$ <input type="checkbox"/> $y + 2x = 5x - 5$ <input checked="" type="checkbox"/> $y = \frac{1}{x} + 1$ <input checked="" type="checkbox"/> $y = x^2 - 4x + 5$	Multiple Choice Multiple-Select				
20	<input checked="" type="radio"/> Of all the students, 27% participate in both school sports and community service.	Multiple Choice Single-Select				
21	(<input type="text" value="-4"/> , <input type="text" value="3"/>)	Multiple Numeric Entry				
22	The slope of the graph of function J is <input type="text" value="greater than"/> the slope of the graph of function K. The y-intercept of the graph of function J is <input type="text" value="less than"/> the y-intercept of the graph of function K.	Drop-Down				
23	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; padding: 5px;">Step 1:</td> <td style="padding: 5px;"> <div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid gray; border-radius: 10px; padding: 2px 10px;">area of large square</div> <div style="font-size: 24px;">=</div> <div style="border: 1px solid gray; border-radius: 10px; padding: 2px 10px;">area of 4 right triangles</div> <div style="font-size: 24px;">+</div> <div style="border: 1px solid gray; border-radius: 10px; padding: 2px 10px;">area of small square</div> </div> </td> </tr> <tr> <td style="padding: 5px;">Step 2:</td> <td style="padding: 5px;"> $(a + b)^2 = 4 \cdot \frac{1}{2} \cdot ab + c^2$ </td> </tr> </table>	Step 1:	<div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid gray; border-radius: 10px; padding: 2px 10px;">area of large square</div> <div style="font-size: 24px;">=</div> <div style="border: 1px solid gray; border-radius: 10px; padding: 2px 10px;">area of 4 right triangles</div> <div style="font-size: 24px;">+</div> <div style="border: 1px solid gray; border-radius: 10px; padding: 2px 10px;">area of small square</div> </div>	Step 2:	$(a + b)^2 = 4 \cdot \frac{1}{2} \cdot ab + c^2$	Drag and Drop
Step 1:	<div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid gray; border-radius: 10px; padding: 2px 10px;">area of large square</div> <div style="font-size: 24px;">=</div> <div style="border: 1px solid gray; border-radius: 10px; padding: 2px 10px;">area of 4 right triangles</div> <div style="font-size: 24px;">+</div> <div style="border: 1px solid gray; border-radius: 10px; padding: 2px 10px;">area of small square</div> </div>					
Step 2:	$(a + b)^2 = 4 \cdot \frac{1}{2} \cdot ab + c^2$					
24	$y = $ <input type="text" value="-2"/> $x + $ <input type="text" value="10"/>	Multiple Numeric Entry				
25	<input type="checkbox"/> Running 1 mile will cause the runner to use 1,725 calories. <input checked="" type="checkbox"/> A runner who runs 2 miles on one day is predicted to use 1,830 calories that day. <input checked="" type="checkbox"/> For each increase of 1 mile run per day, the number of calories used tends to increase, on average, by 105.	Multiple Choice Multiple-Select				

Item Number		Item Type
26	$c = $ <input type="text" value="1"/> $ \text{ and } d = $ <input type="text" value="12"/>	Multiple Numeric Entry
27	<input checked="" type="radio"/> $y = 2x + b$	Multiple Choice Single-Select
28	$\frac{\text{180}}{\text{181}}$	Fraction Entry
29A	$y = $ <input type="text" value="1200"/> $ x + $ <input type="text" value="400"/>	Numeric Entry
29B	$y = $ <input type="text" value="1300"/> $ x + $ <input type="text" value="250"/>	Numeric Entry
29C	<p>Jorge should rent an apartment at <input type="text" value="Complex J"/> . The difference in total cost when $x = 5$ is <input type="text" value="\$350"/> .</p>	Drop-Down
30A	<p>Linda's claim is incorrect because she said the slope is run over rise. The slope is actually rise over run, or the change in y over the change in x.</p> <p>The slope of \overline{PR} is $-\frac{2}{3}$ because $\frac{3 - (-1)}{-3 - 3} = \frac{4}{-6} = -\frac{2}{3}$</p>	Written Response
30B	<p>Triangles MNP and QRT are similar because the corresponding angles at N and R and the corresponding angles at P and T are congruent since they are corresponding angles where two parallel lines are intersected by a transversal. Because the triangles are similar, the ratios of corresponding sides of the triangles are equal. This</p> $\frac{MN}{NP} = \frac{QR}{RT}$ <p>means $\frac{MN}{NP} = \frac{QR}{RT}$ and shows that the slopes of \overline{NP} and \overline{RT} are equal.</p>	Written Response

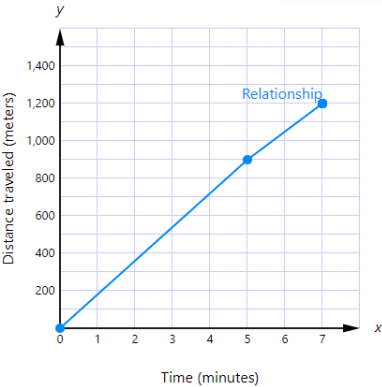
Math Written Response Rubric Grade 8

This question is worth 4 points. Each of the following components is worth 1 point.


- The response provides an explanation of the error in Linda’s claim.
- The response shows the correct calculation and identification of the slope.
- The response provides correct reasoning about the slopes being equal, which includes the fact that the triangles are similar.
- The response provides correct reasoning about the slopes being equal because the ratios are equal, which includes the fact that the ratios of corresponding sides of the triangles are equal.
 - Note: If the response to Part B only contains calculations of the slopes of the segments without using the similar triangle concept, both points may be awarded as long as both slopes are calculated correctly.

Mathematics Grade 9 Practice Test Answer Key

Item Number	Correct Answer	Item Type															
1	<input checked="" type="radio"/> $100 = 35 + 20w$	Multiple Choice Single-Select															
2	$c = \frac{3}{5}$	Fraction Entry															
3	<input checked="" type="radio"/> 0.074	Multiple Choice Single-Select															
4	$12x^2 + 5x - 2$	Multiple Numeric Entry															
5	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Must Be Rational</th> <th>Must Be Irrational</th> </tr> </thead> <tbody> <tr> <td>$r + s$</td> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>$r + w$</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/></td> </tr> <tr> <td>rs</td> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>rw</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/></td> </tr> </tbody> </table>		Must Be Rational	Must Be Irrational	$r + s$	<input checked="" type="radio"/>	<input type="radio"/>	$r + w$	<input type="radio"/>	<input checked="" type="radio"/>	rs	<input checked="" type="radio"/>	<input type="radio"/>	rw	<input type="radio"/>	<input checked="" type="radio"/>	Table
	Must Be Rational	Must Be Irrational															
$r + s$	<input checked="" type="radio"/>	<input type="radio"/>															
$r + w$	<input type="radio"/>	<input checked="" type="radio"/>															
rs	<input checked="" type="radio"/>	<input type="radio"/>															
rw	<input type="radio"/>	<input checked="" type="radio"/>															
6	<input checked="" type="radio"/> 100 pencils and 20 pens	Multiple Choice Single-Select															
7	$0.15x + 0.75y \leq 30$ $3y \leq 1x$	Drag and Drop															
8	The median running time of group J is <input type="text" value="greater than"/> the median running time of group K. The interquartile range of running times for group J is <input type="text" value="equal to"/> the interquartile range of running times for group K.	Drop-Down															
9	<input checked="" type="radio"/> $c > 0$	Multiple Choice Single-Select															
10	The maximum height was greater for <input type="text" value="Team Q's"/> water balloon, and the number of seconds after launch required to reach the maximum height was greater for <input type="text" value="Team Q's"/> water balloon.	Drop-Down															
11	$C = 150m + 3000$	Multiple Numeric Entry															

Item Number		Item Type
12	<input checked="" type="radio"/> $t_n = -4(n - 1)$	Multiple Choice Single-Select
13	<input checked="" type="radio"/> $1,000(1.049)^t$	Multiple Choice Single-Select
14	<input checked="" type="radio"/> $a = \frac{c - 5}{2}$	Multiple Choice Single-Select
15	$b =$ <input type="text" value="-12"/>	Numeric Entry
16	$x =$ <input type="text" value="-3"/> $x =$ <input type="text" value="1"/>	Multiple Numeric - Discrete
17		Graphing
18	$a =$ <input type="text" value="2"/> ; $b =$ <input type="text" value="3"/>	Multiple Numeric Entry
19	<input type="checkbox"/> There were 185 members in the club when the advertisement was published. <input checked="" type="checkbox"/> There were 215 members in the club 2 months after the advertisement was published. <input checked="" type="checkbox"/> Membership in the club increased by the same amount each month for $m \geq 1$. <input type="checkbox"/> There were the same number of members at the end of month 2 as there were at the end of month 3. <input type="checkbox"/> One new member joined the club every 2 days since the advertisement was published.	Multiple Choice Multiple-Select
20	<input checked="" type="radio"/> Between 13 and 15 years	Multiple Choice Single-Select

Item Number		Item Type																
21	<table border="1"> <thead> <tr> <th></th> <th>True</th> <th>False</th> </tr> </thead> <tbody> <tr> <td>The slope of the linear model is negative.</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>The linear relationship between exercise and cholesterol levels is weak.</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td>As the number of hours per week spent exercising increases, cholesterol levels tend to decrease.</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> </tbody> </table>		True	False	The slope of the linear model is negative.	<input checked="" type="radio"/>	<input type="radio"/>	The linear relationship between exercise and cholesterol levels is weak.	<input type="radio"/>	<input checked="" type="radio"/>	As the number of hours per week spent exercising increases, cholesterol levels tend to decrease.	<input checked="" type="radio"/>	<input type="radio"/>	Table				
	True	False																
The slope of the linear model is negative.	<input checked="" type="radio"/>	<input type="radio"/>																
The linear relationship between exercise and cholesterol levels is weak.	<input type="radio"/>	<input checked="" type="radio"/>																
As the number of hours per week spent exercising increases, cholesterol levels tend to decrease.	<input checked="" type="radio"/>	<input type="radio"/>																
22	<input checked="" type="radio"/> $0 \leq m \leq 50$	Multiple Choice Single-Select																
23	<input checked="" type="checkbox"/> $\sqrt[3]{9^4}$ <input type="checkbox"/> $\sqrt[4]{27}$ <input checked="" type="checkbox"/> $\sqrt[3]{3^8}$	Multiple Choice Multiple-Select																
24	$f(x) = (x - \text{ } 1 \text{ })^2 + \text{ } -4 \text{ }$	Multiple Numeric Entry																
25	<table border="1"> <thead> <tr> <th></th> <th>Green</th> <th>Purple</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Hood</td> <td>100</td> <td>70</td> <td>170</td> </tr> <tr> <td>No Hood</td> <td>80</td> <td>130</td> <td>210</td> </tr> <tr> <td>Total</td> <td>180</td> <td>200</td> <td>380</td> </tr> </tbody> </table>		Green	Purple	Total	Hood	100	70	170	No Hood	80	130	210	Total	180	200	380	Drag and Drop
	Green	Purple	Total															
Hood	100	70	170															
No Hood	80	130	210															
Total	180	200	380															
26		Graphing																
27	<input checked="" type="checkbox"/> $x^2 - 9$ <input type="checkbox"/> $x^2 - 11$ <input checked="" type="checkbox"/> $4x^2 - 1$ <input type="checkbox"/> $4x^2 - 2$ <input checked="" type="checkbox"/> $9x^2 - 4$	Multiple Choice Multiple-Select																
28	<input checked="" type="radio"/> $h(x) = f(3x)$	Multiple Choice Single-Select																

Item Number	Correct Answer	Item Type
29A		Drag and Drop
29B	<input checked="" type="radio"/> The statement is incorrect, and $x = 1.5$ is a counterexample.	Multiple Choice Single-Select
30A	The value of the car is best modeled with an exponential function, because the value is decreasing at a constant percent rate of 15% per year.	Written Response
30B	<p>The situation can be modeled by the function $v(t) = p \cdot (0.85)^t$, where p is the value of the car when it was purchased, t is the number of years since it was purchased, and v is the current value of the car. The fact that the value of the car 2 years after it was purchased was \$17,918 can be used to find the value of the car when it was purchased by substituting into the function and solving for p.</p> $17,918 = p \cdot (0.85)^2$ $17,918 = 0.7225p$ $p = 24,800$ <p>This means that p, the value of the car when it was purchased, was \$24,800.</p>	Written Response

Math Written Response Rubric Grade 9

This question is worth 4 points. Each of the following components is worth 1 point.

- In Part A, the response shows that the situation can be modeled by an exponential function and provides a correct explanation.
- In either Part A or Part B, the response contains the correct decay factor of 0.85. This may not be explicit but should be apparent in the work shown.
- In Part B, the response contains a reasonable computation (between \$23,000 and \$25,000) for the original price based on the work shown.
- In Part B, the response provides an equation, process, or explanation for the computation.

ELA Grade 3 Practice Test Answer Key

Item Number	Correct Answer	Item Type						
1	<p>country <i>noun</i> 1. all the land of a nation 2. the people of a nation 3. the place where a person was born or is a citizen</p> <p>4. an open area outside of a big town or city</p>	Select in Passage						
2	<input checked="" type="radio"/> the neighbors will discover her family eats weeds.	Multiple Choice Single-Select						
3	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #d9d9d9;">Sentence from the Passage</th> <th style="background-color: #d9d9d9;">Feelings</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">"It seemed to take hours to fill the bags." (paragraph 24)</td> <td style="text-align: center;"><input type="text" value="bored"/></td> </tr> <tr> <td style="text-align: center;">"I landed smiling at the sky and shin-high in the yellow flowers." (paragraph 26)</td> <td style="text-align: center;"><input type="text" value="playful"/></td> </tr> </tbody> </table>	Sentence from the Passage	Feelings	"It seemed to take hours to fill the bags." (paragraph 24)	<input type="text" value="bored"/>	"I landed smiling at the sky and shin-high in the yellow flowers." (paragraph 26)	<input type="text" value="playful"/>	Drag and Drop
Sentence from the Passage	Feelings							
"It seemed to take hours to fill the bags." (paragraph 24)	<input type="text" value="bored"/>							
"I landed smiling at the sky and shin-high in the yellow flowers." (paragraph 26)	<input type="text" value="playful"/>							
4	<input checked="" type="radio"/> step on and crush	Multiple Choice Single-Select						
5	<p>The picture at the end of the passage best supports the idea that Athena is <input style="width: 100px;" type="text" value="happy with the dinner party."/></p>	Drop-Down						
6A	<input checked="" type="radio"/> Be willing to have new experiences.	Multiple Choice Single-Select						
6B	<input checked="" type="radio"/> "I closed my eyes and made a wish: to be as open-minded as my family and my new friend." (paragraph 48)	Multiple Choice Single-Select						
7	<input checked="" type="radio"/> there are no buses to take them to school.	Multiple Choice Single-Select						
8A	<input checked="" type="radio"/> different	Multiple Choice Single-Select						
8B	<input checked="" type="radio"/> "It may include boiled or smoked fish, chicken, eggs, goat meat, or bush meat." (paragraph 8)	Multiple Choice Single-Select						

Item Number		Item Type								
9	<p>When there is work to do after school, the girls do it first. They might wash dishes, shuck corn, get water from the river and firewood from the forest, feed the goats, spread cocoa beans to dry, weed the fields, or bathe Becki's youngest sister. Once their work is done, they are free to play. Sometimes they pick oranges, jump rope, dance, or play mancala (a board game). The boys prefer to race toys—small wheels at the end of sticks—that they built from scraps.</p>	Select in Passage								
10	<table border="1" data-bbox="659 632 862 884"> <tr> <td>1</td> <td>Arrived at school</td> </tr> <tr> <td>2</td> <td>Buy breakfast</td> </tr> <tr> <td>3</td> <td>Sing a song</td> </tr> <tr> <td>4</td> <td>Go to classes</td> </tr> </table>	1	Arrived at school	2	Buy breakfast	3	Sing a song	4	Go to classes	Drag and Drop
1	Arrived at school									
2	Buy breakfast									
3	Sing a song									
4	Go to classes									
11	<input checked="" type="radio"/> like spending time together.	Multiple Choice Single-Select								
12	<input checked="" type="radio"/> "Becki and Bonsa are part of the Ashanti tribe of Ghana, an English-speaking West African country." (paragraph 2)	Multiple Choice Single-Select								
13	<input checked="" type="radio"/> Culture and Life in Ghana	Multiple Choice Single-Select								
14	<p>(1) Camels live in hot, dry deserts. (2) Most animals could not live in the desert. (3) Some deserts on Earth are cold, but they do not get much rain. (4) What helps the camel be able to live there?</p>	Select in Passage								
15	<p>The desert sand is hot and deep, <input type="text" value="but"/> the camel has large feet to keep him from sinking.</p>	Drop-Down								
16	<p>(9) Also, the camel can go for a week in great heat without <input type="text" value="having"/> to drink water.</p>	Select in Passage								
17	<input checked="" type="radio"/> A camel's body is made for living in the desert.	Multiple Choice Single-Select								

Item Number	Correct Answer	Item Type
18	<input checked="" type="radio"/> What Kids and Parents Believe	Multiple Choice Single-Select
19	<input checked="" type="checkbox"/> "One good thing is the video games that children play today often encourage them to work in teams, cooperate, and to help each other." (paragraph 8) <input type="checkbox"/> "This is because games today are often designed for multiple players, not like old-fashioned video games that were mostly designed for one player." (paragraph 8) <input type="checkbox"/> "However, children who are obsessed with video games and play them for a long time can get really competitive and can often try to win at all costs." (paragraph 9) <input type="checkbox"/> "Experts aren't sure yet, but they have real concerns that this might lead to kids acting like this in real life too." (paragraph 9) <input checked="" type="checkbox"/> "One thing you might also like to know is that kids who regularly play video games often get higher grades in math, science, and reading tests." (paragraph 10)	Multiple Choice Multiple-Select
20	<p>According to the section of the passage "What Do Experts Say?," a good thing about video games is that they can teach children to <input type="text" value="work in teams,"/> but they can also make children feel like they need to always <input type="text" value="be the winner of the activity."/></p>	Drop-Down
21	<p>There are two things that children and parents can do to make playing video games a positive activity. Play video games with your parents so they know that they are not all bad." Also "Play educational video games such as solving puzzles. Don't always play fighting games.</p>	Written Response
22	<input checked="" type="radio"/> It can change friendships.	Multiple Choice Single-Select
23	<p>The author of the passage thinks video games should be <input type="text" value="the right type for a child's age."/></p>	Drop-Down
24a	<input checked="" type="radio"/> It is important to spend time on other activities, not just on video games.	Multiple Choice Single-Select
24b	<input checked="" type="radio"/> "It's hard to get enough active play and exercise if you're always inside playing video games." (paragraph 3)	Multiple Choice Single-Select
25	<input checked="" type="radio"/> Video games have ratings.	Multiple Choice Single-Select

Item Number	Correct Answer	Item Type
26	<input checked="" type="radio"/> To teach readers how video games can be both harmful and helpful	Multiple Choice Single-Select

ELA Grade 4 Practice Test Answer Key

Item Number	Correct Answer	Item Type																
1	<p>Iris grinned. "I hope they'll help you sell lots of paintings so I can buy that kaleidoscope." Mom had promised to share the profits with Iris if she helped out—five cents for every dollar's worth of sales.</p>	Select in Passage																
2	<input checked="" type="radio"/> She has thought of a plan.	Multiple Choice Single-Select																
3	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="background-color: #e0e0e0;">Events that Lead to Iris' Idea</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Designing price tags for her mother</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">Watching a rug being traded for a painting</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">Doodling on a pad</td> </tr> </tbody> </table>	Events that Lead to Iris' Idea		1	Designing price tags for her mother	2	Watching a rug being traded for a painting	3	Doodling on a pad	Drag and Drop								
Events that Lead to Iris' Idea																		
1	Designing price tags for her mother																	
2	Watching a rug being traded for a painting																	
3	Doodling on a pad																	
4	<input checked="" type="radio"/> admires the beauty of the banner Iris made for her mom.	Multiple Choice Single-Select																
5	<input checked="" type="radio"/> Often people need creative solutions to solve problems.	Multiple Choice Single-Select																
6	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Clever</th> <th style="text-align: center;">Confident</th> <th style="text-align: center;">Eager</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">"May I run over to Rodney's booth?" (paragraph 11)</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/></td> </tr> <tr> <td style="text-align: center;">"Not rich enough. Do you think we can make a trade?" (paragraph 23)</td> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td style="text-align: center;">"My tags have pizzazz. . . . Customers love them." (paragraph 27)</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> </tbody> </table>		Clever	Confident	Eager	"May I run over to Rodney's booth?" (paragraph 11)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	"Not rich enough. Do you think we can make a trade?" (paragraph 23)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	"My tags have pizzazz. . . . Customers love them." (paragraph 27)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Table
	Clever	Confident	Eager															
"May I run over to Rodney's booth?" (paragraph 11)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>															
"Not rich enough. Do you think we can make a trade?" (paragraph 23)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>															
"My tags have pizzazz. . . . Customers love them." (paragraph 27)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>															
7	<p>In the first paragraph, the author asks the question, "Who wants a bedtime story?" to</p> <p style="text-align: center;"><input type="text" value="build interest for the reader of the passage."/></p> <p>The author offers a possible answer to the question to introduce the</p> <p style="text-align: center;"><input type="text" value="topic of the passage."/></p>	Drop-Down																
8	<p>engage verb 1. to become interested or involved 2. to enter into an agreement 3. to promise to marry 4. to prepare for fighting</p>	Select in Passage																

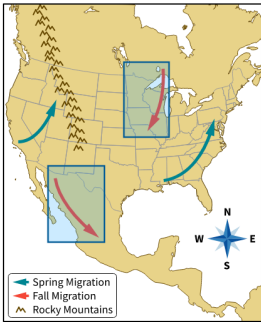
Item Number		Item Type
9	<input type="checkbox"/> The types of foods that dogs eat <input checked="" type="checkbox"/> The signs of worry in dogs <input checked="" type="checkbox"/> Strategies for approaching dogs <input checked="" type="checkbox"/> Ways to reward dogs <input type="checkbox"/> The types of scents that dogs like	Multiple Choice Multiple-Select
10	<input type="checkbox"/> Paragraph 8 <input checked="" type="checkbox"/> Paragraph 9 <input checked="" type="checkbox"/> Paragraph 10 <input type="checkbox"/> Paragraph 11 <input type="checkbox"/> Paragraph 12	Multiple Choice Multiple-Select
11A	<input checked="" type="radio"/> Both dogs and volunteers benefit from shelter reading programs.	Multiple Choice Single-Select
11B	<input checked="" type="radio"/> Paragraphs 2 and 4	Multiple Choice Single-Select
12	<input type="checkbox"/> The Humane Society of Missouri needed money. <input checked="" type="checkbox"/> Rescue dogs were not comfortable in the shelter environment. <input type="checkbox"/> Photographs of dogs showed that they were hiding in the back of their cages. <input checked="" type="checkbox"/> Children who visited the shelter wanted to help the dogs. <input type="checkbox"/> The shelter wanted to add more classes for children to its education program.	Multiple Choice Multiple-Select
13	<input checked="" type="radio"/> Does barking affect dogs' adoption success rates?	Multiple Choice Single-Select
14	<input checked="" type="radio"/> However,	Multiple Choice Single-Select
15	<input checked="" type="radio"/> On some days, stratus clouds blocked the Sun like a gray blanket as a drizzly rain fell from the sky.	Multiple Choice Single-Select
16A	<input checked="" type="radio"/> calender	Multiple Choice Single-Select
16B	<input type="text" value="calendar"/>	Text Entry

Item Number		Item Type
17	<input checked="" type="radio"/> Changing "observed" to "observe"	Multiple Choice Single-Select
18	<input checked="" type="radio"/> The balloon moves at the same speed as the wind.	Multiple Choice Single-Select
19	<input checked="" type="radio"/> By moving the balloon up or down to catch different winds	Multiple Choice Single-Select
20	<ol style="list-style-type: none"> 1 Giant fans blow cold air into the envelope. 2 A propane burner heats the air inside the envelope. 3 The warm air causes the envelope to expand and rise, lifting the basket up. 	Drag and Drop
21	<p>Teamwork is very important when launching and landing hot air balloons because before launching a hot air balloon you have to tether it to a van so the passengers can get in. For example the text says when landing the pilot looks for a place to land from above. If the pilot thinks he found an open field he would contact the chasers asking if the land had no crops or if it has an accessible road. If it included those details then the pilot would land. That is why teamwork makes the dream-work.</p>	Written Response
22A	<input checked="" type="radio"/> Order of events	Multiple Choice Single-Select
22B	<input checked="" type="radio"/> Moments from the Moon landing are described in sequence.	Multiple Choice Single-Select
23	<input checked="" type="radio"/> "We haven't been back—but wouldn't it be wonderful if we could?" (paragraph 7)	Multiple Choice Single-Select

Item Number		Item Type
24	<p><input checked="" type="checkbox"/> They took photographs.</p> <p><input type="checkbox"/> They repaired the lunar module.</p> <p><input checked="" type="checkbox"/> They collected objects to bring back to Earth.</p> <p><input checked="" type="checkbox"/> They conducted some experiments.</p> <p><input type="checkbox"/> They drew pictures of the Moon.</p>	Multiple Choice Multiple-Select
25	<p><input type="checkbox"/> Zero gravity makes you feel like you are floating.</p> <p><input type="checkbox"/> Using the wind is important for steering.</p> <p><input checked="" type="checkbox"/> Training, practice, and experience are important.</p> <p><input checked="" type="checkbox"/> You get to look at Earth in a totally different way.</p> <p><input checked="" type="checkbox"/> Landing in a clear, safe area is difficult.</p>	Multiple Choice Multiple-Select
26	<p><input checked="" type="radio"/> Anyone can take a ride in a hot air balloon, but only highly trained astronauts ride in spaceships.</p>	Multiple Choice Single-Select

ELA Grade 5 Practice Test Answer Key

Item Number	Correct Answer	Item Type								
1	<input checked="" type="radio"/> No one believes girls can be good drummers.	Multiple Choice Single-Select								
2	<p>When she walked under wind-wavy palm trees in a flower-bright park she heard the whirl of parrot wings the clack of woodpecker beaks the dancing tap of her own footsteps and the comforting pat of her own heartbeat.</p>	Select in Passage								
3	<input checked="" type="radio"/> revealing that the girl has talent and willingness to work.	Multiple Choice Single-Select								
4	<p>The girl is similar to her big sisters in that they all love to make music. ▼</p> <p>The girl is different from her big sisters in that she chooses an instrument girls rarely play. ▼</p>	Drop-Down								
5	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="background-color: #e0e0e0;">Summary</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>The girl hears music in the world around her and creates her own beats on ordinary surfaces.</td> </tr> <tr> <td style="text-align: center;">2</td> <td>The music teacher the girl's father hires is impressed and gives her lessons.</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Everyone hearing the girl's live performance at a café begins to sing and dance.</td> </tr> </tbody> </table>	Summary		1	The girl hears music in the world around her and creates her own beats on ordinary surfaces.	2	The music teacher the girl's father hires is impressed and gives her lessons.	3	Everyone hearing the girl's live performance at a café begins to sing and dance.	Drag and Drop
Summary										
1	The girl hears music in the world around her and creates her own beats on ordinary surfaces.									
2	The music teacher the girl's father hires is impressed and gives her lessons.									
3	Everyone hearing the girl's live performance at a café begins to sing and dance.									
6A	<input checked="" type="radio"/> inspire people to change their minds.	Multiple Choice Single-Select								
6B	<input checked="" type="radio"/> Lines 95 through 102	Multiple Choice Single-Select								

Item Number		Item Type															
7	<p>If you see one with orange-and-black patterned wings, you may be looking at a monarch on the trip of a lifetime. Monarch butterflies make what is believed to be the world's longest insect migration, traveling from parts of North America as far north as Canada to as far south as central California and Mexico.</p>	Select in Passage															
8	<p><input checked="" type="radio"/> "They may be tiny, but they are mighty." (paragraph 2)</p>	Multiple Choice Single-Select															
9		Zone															
10	<p>According to paragraph 9, tens of millions of monarchs travel from east of the Rockies to</p> <p>Mexico's Sierra Madre.</p>	Drop-Down															
11	<p><input checked="" type="radio"/> There is no milkweed growing in Mexico.</p>	Multiple Choice Single-Select															
12	<table border="1"> <thead> <tr> <th>Student Note</th> <th>Should Be Included</th> <th>Should Not Be Included</th> </tr> </thead> <tbody> <tr> <td>Monarchs eat differently at different stages.</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Monarchs cluster together at night.</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td>Monarchs drink nectar often as they fly.</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Monarchs become semi-dormant in Mexico.</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> </tbody> </table>	Student Note	Should Be Included	Should Not Be Included	Monarchs eat differently at different stages.	<input checked="" type="radio"/>	<input type="radio"/>	Monarchs cluster together at night.	<input type="radio"/>	<input checked="" type="radio"/>	Monarchs drink nectar often as they fly.	<input checked="" type="radio"/>	<input type="radio"/>	Monarchs become semi-dormant in Mexico.	<input type="radio"/>	<input checked="" type="radio"/>	Table
Student Note	Should Be Included	Should Not Be Included															
Monarchs eat differently at different stages.	<input checked="" type="radio"/>	<input type="radio"/>															
Monarchs cluster together at night.	<input type="radio"/>	<input checked="" type="radio"/>															
Monarchs drink nectar often as they fly.	<input checked="" type="radio"/>	<input type="radio"/>															
Monarchs become semi-dormant in Mexico.	<input type="radio"/>	<input checked="" type="radio"/>															
13	<p><input type="checkbox"/> A video about the life cycle of monarch butterflies</p> <p><input type="checkbox"/> A scientist's personal journal kept while watching fourth-generation monarchs</p> <p><input checked="" type="checkbox"/> An illustrated report showing the decrease of American wildflowers</p> <p><input checked="" type="checkbox"/> An article explaining how oyamel fir forest removal has affected the environment</p> <p><input type="checkbox"/> A time line showing past and possible future earthquakes in California</p>	Multiple Choice Multiple-Select															
14	<p>Pigs make great companions, but they can be naughty and stubborn.</p>	Drop-Down															

Item Number		Item Type
15	(6) Pet pigs are different from farm pigs in that they are smaller. (7) Because they are smaller, they can live inside.	Drag and Drop
16A	(9) Pigs need time outside because they like to poke around and explore. (10) Like dogs, pigs enjoyed being petted and having their bellies scratched.	Select in Passage
16B	enjoy	Text Entry
17	<input checked="" type="radio"/> A smart and friendly pig might be the right pet for you!	Multiple Choice Single-Select
18	Even though young Mikan was awkward when he moved, it did not stop him from enjoying his favorite sport.	Drop-Down
19	<input checked="" type="checkbox"/> He wore glasses. <input type="checkbox"/> He once broke his leg. <input type="checkbox"/> He played the piano. <input checked="" type="checkbox"/> He was too tall. <input type="checkbox"/> He was a fast runner. <input type="checkbox"/> He took dancing lessons.	Multiple Choice Multiple-Select
20	<input checked="" type="radio"/> "So Mikan learned to shoot baskets from farther back." (paragraph 15)	Multiple Choice Single-Select
21	<p>Example Student Response</p> <p>Ray Meyer did play an important role in Mikan becoming a successful athlete. How he played an important role is that, first of all, he was the coach had faith in him, even when other schools were rejecting him. This is important because if Ray had rejected him, Mikan might not have become a great basketball player. The second way Ray was important in the success of Mikan is how he trained him. The coach asked the boxing team to show him how to jump rope and punch the light bag. The coach also made him take dance lessons. All of this helped him.</p>	Written Response

Item Number		Item Type						
22	<input checked="" type="radio"/> Paragraph 15							
23	<input checked="" type="radio"/> It encourages her to take challenges.							
24	<input checked="" type="checkbox"/> "Did she even have a chance?" (paragraph 20) <input type="checkbox"/> "Ludy whooped, 'Ooh la la!'" (paragraph 25) <input type="checkbox"/> "Would they be kind?" (paragraph 29) <input checked="" type="checkbox"/> "Was she good enough to win?" (paragraph 31) <input type="checkbox"/> "Ludy thought of Coach Bartlett and her thirteen hundred friends at college." (paragraph 35)	Multiple Choice Multiple-Select						
25	<input checked="" type="radio"/> They both practiced in new ways to learn different skills.	Multiple Choice Single-Select						
26	<table border="1"> <thead> <tr> <th data-bbox="500 1041 646 1079">Main Idea for both passages</th> <th data-bbox="646 1041 1029 1079">People can learn to use their physical differences to their advantage when it comes to sports.</th> </tr> </thead> <tbody> <tr> <td data-bbox="500 1079 646 1163">Supporting detail from "Bigger than the Rules"</td> <td data-bbox="646 1079 1029 1163">Detail from "Bigger than the Rules": "Now 6 feet 8 inches (203 cm) tall and broad-shouldered, his specialty was guarding the basket and blocking shots." (paragraph 4)</td> </tr> <tr> <td data-bbox="500 1163 646 1247">Supporting detail from "Long-Armed Ludy"</td> <td data-bbox="646 1163 1029 1247">Detail from "Long-Armed Ludy": "For the next two months, Ludy trained twice as hard. At the Women's Olympics, she'd have to throw with both of her long arms." (paragraph 26)</td> </tr> </tbody> </table>	Main Idea for both passages	People can learn to use their physical differences to their advantage when it comes to sports.	Supporting detail from "Bigger than the Rules"	Detail from "Bigger than the Rules": "Now 6 feet 8 inches (203 cm) tall and broad-shouldered, his specialty was guarding the basket and blocking shots." (paragraph 4)	Supporting detail from "Long-Armed Ludy"	Detail from "Long-Armed Ludy": "For the next two months, Ludy trained twice as hard. At the Women's Olympics, she'd have to throw with both of her long arms." (paragraph 26)	Drag and Drop
Main Idea for both passages	People can learn to use their physical differences to their advantage when it comes to sports.							
Supporting detail from "Bigger than the Rules"	Detail from "Bigger than the Rules": "Now 6 feet 8 inches (203 cm) tall and broad-shouldered, his specialty was guarding the basket and blocking shots." (paragraph 4)							
Supporting detail from "Long-Armed Ludy"	Detail from "Long-Armed Ludy": "For the next two months, Ludy trained twice as hard. At the Women's Olympics, she'd have to throw with both of her long arms." (paragraph 26)							

ELA Grade 6 Practice Test Answer Key

Item Number	Correct Answer	Item Type																				
1	In paragraph 9, the author describes the goose as being too honest to be puffed up by this flattery to show that the goose is <input type="text" value="humble."/> .	Drop Down																				
2A	<input checked="" type="radio"/> He is lying to the goose.	Multiple Choice Single-Select																				
2B	<input checked="" type="radio"/> "It is the sun beating down," the wolf would reply. . ." (paragraph 12)	Multiple Choice Single-Select																				
3	<input type="checkbox"/> It explains why the wolf and the goose are enemies. <input type="checkbox"/> It explains why the goose is better than the wolf. <input checked="" type="checkbox"/> It shows the lessons that the goose is trying to teach the wolf. <input checked="" type="checkbox"/> It shows that the goose and the wolf have conflicting points of view. <input type="checkbox"/> It shows that the wolf and the goose have some things in common.	Multiple Choice Multiple-Select																				
4	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">1 The wolf is unhappy that he cannot fly and comes up with a plan.</div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">2 The wolf steals feathers from the goose because he wants to fly.</div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">3 The wolf builds a pair of wings and leaps off a mountain.</div> <div style="border: 1px solid #ccc; padding: 5px;">4 The wolf is caught by a hunter and is forced to work.</div>	Drag and Drop																				
5	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="background-color: #f2f2f2;">Description</th> <th style="background-color: #f2f2f2;">Goose</th> <th style="background-color: #f2f2f2;">Wolf</th> <th style="background-color: #f2f2f2;">Both</th> </tr> </thead> <tbody> <tr> <td>Is jealous of others</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Thinks sensibly</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Has limited abilities</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td>Tries to be content</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> </tbody> </table>	Description	Goose	Wolf	Both	Is jealous of others	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Thinks sensibly	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Has limited abilities	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Tries to be content	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Table
Description	Goose	Wolf	Both																			
Is jealous of others	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>																			
Thinks sensibly	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>																			
Has limited abilities	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>																			
Tries to be content	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>																			
6A	<input checked="" type="radio"/> Be happy with who you are and what you can do.	Multiple Choice Single-Select																				

Item Number		Item Type																		
6B	<p>“Had I heeded the grey goose and been satisfied to <input checked="" type="radio"/> be a good wolf, I should be safe in my house to-day!” (paragraph 35)</p>	Multiple Choice Single-Select																		
7	<p><input checked="" type="radio"/> He had observed elements in nature moving upward.</p>	Multiple Choice Single-Select																		
8	<p>In order to see whether he could create something that would float “up the chimney with the smoke,” Joseph first made <input type="text" value="a paper bag."/>.</p> <p>After he succeeded, he attempted the same experiment using <input type="text" value="a piece of silk."/>.</p>	Drop-Down																		
9	<p>demonstration <i>noun</i> 1. an expression of feelings 2. a show of armed force 3. a march for a cause 4. a display</p>	Select in Passage																		
10	<p>In the last sentence of paragraph 18, the author uses <input type="text" value="an unlikely comparison"/> to show that people believed that hot-air balloons would allow them to one day <input type="text" value="see new parts of the Earth."/>.</p>	Drop-Down																		
11	<p>“Once in the air, another gust tilted it and sent a <input checked="" type="radio"/> plume of smoke streaming out its side.” (paragraph 21)</p>	Multiple Choice Single-Select																		
12	<ol style="list-style-type: none"> 1 <input type="text" value="Joseph successfully managed to get a small paper bag to fly up the chimney."/> 2 <input type="text" value="Joseph and Étienne designed a large, round bag held together by buttons."/> 3 <input type="text" value="In front of an audience, Joseph and Étienne’s balloon flew for ten minutes."/> 4 <input type="text" value="In front of the royal family, Joseph and Étienne effectively sent a basket carrying animals into the air."/> 	Drag and Drop																		
13	<table border="1"> <thead> <tr> <th>Book</th> <th>Likely to Be Helpful</th> <th>Unlikely to Be Helpful</th> </tr> </thead> <tbody> <tr> <td><i>The Greatest Accomplishments of Marie Antoinette: A Queen</i></td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td><i>A Traveler’s Guide to Versailles</i></td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td><i>The Montgolfier Brothers and Their Successful Experiment</i></td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td><i>Flying High: The History of Aviation</i></td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td><i>Science Projects for Beginners: A How-To Guide</i></td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> </tbody> </table>	Book	Likely to Be Helpful	Unlikely to Be Helpful	<i>The Greatest Accomplishments of Marie Antoinette: A Queen</i>	<input type="radio"/>	<input checked="" type="radio"/>	<i>A Traveler’s Guide to Versailles</i>	<input type="radio"/>	<input checked="" type="radio"/>	<i>The Montgolfier Brothers and Their Successful Experiment</i>	<input checked="" type="radio"/>	<input type="radio"/>	<i>Flying High: The History of Aviation</i>	<input checked="" type="radio"/>	<input type="radio"/>	<i>Science Projects for Beginners: A How-To Guide</i>	<input type="radio"/>	<input checked="" type="radio"/>	Table
Book	Likely to Be Helpful	Unlikely to Be Helpful																		
<i>The Greatest Accomplishments of Marie Antoinette: A Queen</i>	<input type="radio"/>	<input checked="" type="radio"/>																		
<i>A Traveler’s Guide to Versailles</i>	<input type="radio"/>	<input checked="" type="radio"/>																		
<i>The Montgolfier Brothers and Their Successful Experiment</i>	<input checked="" type="radio"/>	<input type="radio"/>																		
<i>Flying High: The History of Aviation</i>	<input checked="" type="radio"/>	<input type="radio"/>																		
<i>Science Projects for Beginners: A How-To Guide</i>	<input type="radio"/>	<input checked="" type="radio"/>																		
14	<p>When it rains, snows, or even sleet, what makes it possible for <input type="text" value="someone"/> to continue to drive safely?</p>	Select in Passage																		
15	<p><input checked="" type="radio"/> However,</p>	Multiple Choice Single-Select																		
16A	<p>Anderson was <u>convinced</u> that there had to be a better <u>solution</u>, and she started to <u>skech</u> what she was <u>picturing</u> in her mind: a blade that could be <u>operated</u> from inside the <u>vehicle</u>.</p>	Select in Passage																		

Item Number		Item Type
16B	<div style="border: 1px solid #ccc; border-radius: 5px; padding: 2px; display: inline-block;"> sketch </div>	Text Entry
17	<div style="border: 1px solid #add8e6; border-radius: 5px; padding: 5px; display: inline-block;"> <input checked="" type="radio"/> Sentence 12 </div>	Multiple Choice Single-Select
18	<div style="border: 1px solid #add8e6; border-radius: 5px; padding: 5px; display: inline-block;"> <input checked="" type="radio"/> "Nationwide, at least 10 medical schools teach cooking as a form of medicine, according to the medical journal <i>Population Health Management</i>." (paragraph 8) </div>	Multiple Choice Single-Select
19	<div style="border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 5px;"> <input type="checkbox"/> A doctor asks patients to make a list of their favorite restaurants. </div> <div style="border: 1px solid #add8e6; border-radius: 5px; padding: 5px; margin-bottom: 5px;"> <input checked="" type="checkbox"/> A doctor teaches a free meal-preparation class to patients at a local clinic. </div> <div style="border: 1px solid #add8e6; border-radius: 5px; padding: 5px; margin-bottom: 5px;"> <input checked="" type="checkbox"/> A doctor shares a recipe containing foods that could help ease a patient's stomach pain. </div> <div style="border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 5px;"> <input type="checkbox"/> A doctor encourages a patient to visit a popular health-food store. </div> <div style="border: 1px solid #ccc; border-radius: 5px; padding: 5px;"> <input type="checkbox"/> A doctor tells a patient to purchase more produce from local farms. </div>	Multiple Choice Multiple-Select
20	<div style="border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 5px;"> <input type="checkbox"/> "Maria worries about heart disease and has tried several diets in the past without success." (paragraph 21) </div> <div style="border: 1px solid #add8e6; border-radius: 5px; padding: 5px; margin-bottom: 5px;"> <input checked="" type="checkbox"/> "The salmon uses healthy fats to add flavor and make the patient feel full, she explained." (paragraph 23) </div> <div style="border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 5px;"> <input type="checkbox"/> "A salad with Greek yogurt dressing was also served." (paragraph 27) </div> <div style="border: 1px solid #add8e6; border-radius: 5px; padding: 5px; margin-bottom: 5px;"> <input checked="" type="checkbox"/> "He and his teammates chose their recipe because they learned that pickled foods and yogurt can improve gut health." (paragraph 29) </div> <div style="border: 1px solid #ccc; border-radius: 5px; padding: 5px;"> <input type="checkbox"/> "His team thought that if their patient likes Chipotle, then she would probably enjoy the spicy flavors of bibimbap." (paragraph 29) </div>	Multiple Choice Multiple-Select
21	<div style="border: 1px solid #add8e6; border-radius: 5px; padding: 5px; display: inline-block;"> <input checked="" type="radio"/> "... the Edible Schoolyard doesn't use any chemical fertilizers ..." (paragraph 5) </div>	Multiple Choice Single-Select
22	<p>According to the passage, the students use compost in their garden because it improves the quality of the soil while also providing a use for leftover waste.</p>	Drop-Down
23A	<div style="border: 1px solid #add8e6; border-radius: 5px; padding: 5px; display: inline-block;"> <input checked="" type="radio"/> pay attention to the sources of their food. </div>	Multiple Choice Single-Select

Item Number	Correct Answer	Item Type																				
23B	<div style="border: 1px solid #add8e6; padding: 5px; background-color: #e6f2ff;"> <p>“They plant their crops by hand, build frames out of bamboo to support plants, learn about the seasons in the garden, and maintain the compost pile.” (paragraph 4)</p> </div>	Multiple Choice Single-Select																				
24	<div style="border: 1px solid #add8e6; padding: 5px; background-color: #e6f2ff;"> <p>“Each day, the students make delicious, healthy dishes. They gather together to share what they have prepared.” (paragraph 5)</p> </div>	Multiple Choice Single-Select																				
25	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 40%;">Statements</th> <th style="width: 15%;">“Cooking as Medicine”</th> <th style="width: 15%;">“Growing a Schoolyard Garden”</th> <th style="width: 10%;">Both Passages</th> </tr> </thead> <tbody> <tr> <td>Growing crops can teach people how to work together.</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>People should eat foods grown by local farmers.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td>The right foods can improve people’s health problems.</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Cooking is a skill that helps people make healthy choices.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> </tbody> </table>	Statements	“Cooking as Medicine”	“Growing a Schoolyard Garden”	Both Passages	Growing crops can teach people how to work together.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	People should eat foods grown by local farmers.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	The right foods can improve people’s health problems.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooking is a skill that helps people make healthy choices.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Table
Statements	“Cooking as Medicine”	“Growing a Schoolyard Garden”	Both Passages																			
Growing crops can teach people how to work together.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>																			
People should eat foods grown by local farmers.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>																			
The right foods can improve people’s health problems.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>																			
Cooking is a skill that helps people make healthy choices.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>																			
26	<p>Example Student Response</p> <p>Schools are providing courses and programs that focus on nutrition and the source and supply of food. Two of these courses are the Food Matters for Health Professionals course at the University of Minnesota, and the Edible Schoolyard (ESY) program at the Martin Luther King, Jr. Middle School in California. While both of these programs encourage healthy eating and focus on culinary skills that provide good nutrition, there are two noticeable differences between the cooking course and ESY program. Firstly, the focus of the ESY program is mainly the growing and supply of food. They “plant their crops by hand.” On the contrary, the college course is more so related to culinary skills, and applying those skills to create a purposeful dish in the sense of treating patients. Secondly, the cooking portion of the ESY program is simply for the sharing of the meals with each other, whereas in the college course, students are given a scenario in which they have a patient with certain health issues, and must create a dish that benefits them health-wise. Although they are different, they both promote health.</p>	Written Response																				

ELA Grade 7 Practice Test Answer Key

Item Number	Correct Answer	Item Type															
1	<input checked="" type="radio"/> The sentences are stage directions and are not to be read aloud.	Multiple Choice Single-Select															
2	In line 9, Elizabeth recalls that Francis Marion is nicknamed "The Swamp Fox" because he <input type="text" value="tricks the British regularly."/>	Drop Down															
3	<input type="checkbox"/> "Mama, I see two men approaching the house." (line 2) <input checked="" type="checkbox"/> "They're not wearing red coats." (line 4) <input type="checkbox"/> "The honor is mine." (line 8) <input checked="" type="checkbox"/> "I have heard it said that you are a great cavalry leader." (line 13) <input type="checkbox"/> "I am surprised that you have heard of me." (line 14)	Multiple Choice Multiple-Select															
4	<input checked="" type="radio"/> "And they are bursting into flames on contact!" (line 39)	Multiple Choice Single-Select															
5	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="font-size: small;">Event</th> <th style="font-size: small;">Scene 2</th> <th style="font-size: small;">Scene 3</th> </tr> </thead> <tbody> <tr> <td style="font-size: x-small;">The American troops attempt to burn down Rebecca Motte's house.</td> <td style="font-size: x-small;">○</td> <td style="font-size: x-small;">●</td> </tr> <tr> <td style="font-size: x-small;">Elizabeth and Rebecca are introduced to Francis Marion and Henry Lee.</td> <td style="font-size: x-small;">●</td> <td style="font-size: x-small;">○</td> </tr> <tr> <td style="font-size: x-small;">The women are presented with an opportunity to help the American troops.</td> <td style="font-size: x-small;">●</td> <td style="font-size: x-small;">○</td> </tr> <tr> <td style="font-size: x-small;">The British surrender and Rebecca Motte gets her home back.</td> <td style="font-size: x-small;">○</td> <td style="font-size: x-small;">●</td> </tr> </tbody> </table>	Event	Scene 2	Scene 3	The American troops attempt to burn down Rebecca Motte's house.	○	●	Elizabeth and Rebecca are introduced to Francis Marion and Henry Lee.	●	○	The women are presented with an opportunity to help the American troops.	●	○	The British surrender and Rebecca Motte gets her home back.	○	●	Table
Event	Scene 2	Scene 3															
The American troops attempt to burn down Rebecca Motte's house.	○	●															
Elizabeth and Rebecca are introduced to Francis Marion and Henry Lee.	●	○															
The women are presented with an opportunity to help the American troops.	●	○															
The British surrender and Rebecca Motte gets her home back.	○	●															
6	<input checked="" type="radio"/> Newton is best known for his work as a scientist.	Multiple Choice Single-Select															
7	In paragraph 3, the author explains that before 1662, counterfeiters were able to <input type="text" value="trick others into accepting their coins"/> because <input type="text" value="pictures on real coins could be unclear."/>	Drop-Down															
8	<input checked="" type="radio"/> The engraving sent a message to counterfeiters.	Multiple Choice Single-Select															
9	<input checked="" type="radio"/> As Master of the Mint, Isaac Newton played a significant role in fighting the common crime of counterfeiting.	Multiple Choice Single-Select															

Item Number		Item Type															
10	<p><input type="checkbox"/> "Newton followed his own advice when it came to catching counterfeiters, too!" (paragraph 6)</p> <p><input checked="" type="checkbox"/> "Records also show that Newton himself tracked down criminals to their lairs and interrogated them in person." (paragraph 7)</p> <p><input checked="" type="checkbox"/> "Newton worked full-time to convict master counterfeiter William Chaloner." (paragraph 7)</p> <p><input type="checkbox"/> "This bold criminal had dared to question publicly Newton's own honesty and abilities." (paragraph 7)</p> <p><input type="checkbox"/> "As a college student, Isaac Newton had kept a private list of his own failings." (paragraph 8)</p>	Multiple Choice Multiple-Select															
11A	<p><input checked="" type="radio"/> By describing its practical benefits for Newton</p>	Multiple Choice Single-Select															
11B	<p>One of Newton's many secrets was that he had practiced alchemy. This scorned, often-illegal attempt to change ordinary metals into gold increased Newton's knowledge of metallurgy. He had even built equipment for these secret experiments in Cambridge. The scientist did not believe alchemy was magic or evil, as some claimed. Newton's skills as an alchemist helped him measure the purity of the Mint's coins, assay the amount of precious metal in foreign coins, and identify counterfeit ones.</p>	Select in Passage															
12	<table border="1"> <thead> <tr> <th>Actions Intended to Prevent Counterfeiting</th> <th>Newton's Actions</th> <th>Actions of Others</th> </tr> </thead> <tbody> <tr> <td>Introduced machinery to the mint</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td>Decided to withdraw handmade coins from use</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td>Questioned accused counterfeiters in prisons</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Hired individuals to find where counterfeiters hid their equipment</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> </tbody> </table>	Actions Intended to Prevent Counterfeiting	Newton's Actions	Actions of Others	Introduced machinery to the mint	<input type="radio"/>	<input checked="" type="radio"/>	Decided to withdraw handmade coins from use	<input type="radio"/>	<input checked="" type="radio"/>	Questioned accused counterfeiters in prisons	<input checked="" type="radio"/>	<input type="radio"/>	Hired individuals to find where counterfeiters hid their equipment	<input checked="" type="radio"/>	<input type="radio"/>	Table
Actions Intended to Prevent Counterfeiting	Newton's Actions	Actions of Others															
Introduced machinery to the mint	<input type="radio"/>	<input checked="" type="radio"/>															
Decided to withdraw handmade coins from use	<input type="radio"/>	<input checked="" type="radio"/>															
Questioned accused counterfeiters in prisons	<input checked="" type="radio"/>	<input type="radio"/>															
Hired individuals to find where counterfeiters hid their equipment	<input checked="" type="radio"/>	<input type="radio"/>															
13	<p><input checked="" type="radio"/> How has technology been used to fight counterfeiting?</p>	Multiple Choice Single-Select															
14A	<p><input checked="" type="radio"/> specis</p>	Multiple Choice Single-Select															
14B	<p>species</p>	Text Entry															
15	<p>Traveling great distances during their lives, they live in oceans all over the world.</p>	Drop-Down															
16	<p><input checked="" type="radio"/> We must keep the oceans clean, adjust shipping paths, and protect them from getting tangled accidentally in fishing nets.</p>	Multiple Choice Single-Select															
17	<p><input checked="" type="radio"/> Removing "you all know"</p>	Multiple Choice Single-Select															

Item Number		Item Type																				
18	<input type="checkbox"/> The location outside the city of Cairo <input checked="" type="checkbox"/> The animal imagery that suggests power and strength <input checked="" type="checkbox"/> The presence of symbols associated with kings <input type="checkbox"/> The number of pyramids at Giza <input type="checkbox"/> The description of the monuments as well-known	Multiple Choice Multiple-Select																				
19	<input checked="" type="radio"/> Paragraph 2	Multiple Choice Single-Select																				
20	<input checked="" type="checkbox"/> The probable source of the azurite for the blue paint <input type="checkbox"/> The birthplace of the kings Khufu and Khafre <input checked="" type="checkbox"/> The region where the alabaster for the temple floor came from <input type="checkbox"/> The location of the three best-known pyramids in the world <input type="checkbox"/> The places associated with the sun gods in the west and east	Multiple Choice Multiple-Select																				
21	<p>“Around 220 B.C., Qin Shi Huang, the Qin dynasty’s first emperor of a unified China, ordered that earlier fortifications between states be removed and a number of existing walls along the northern border be joined into a single system . . .” (paragraph 3)</p> <input checked="" type="radio"/>	Multiple Choice Single-Select																				
22	<p>The Great Wall is considered both a monumental accomplishment and a symbol of China’s enduring culture.</p>	Drop-Down																				
23	<p>Although the successful invasion of the Manchus represented the failure of the Great Wall’s original purpose, in the following years the Great Wall has become one of the most popular and celebrated monuments in the world.</p> <input checked="" type="radio"/>	Multiple Choice Single-Select																				
24	<table border="1"> <thead> <tr> <th>Phrase</th> <th>“Guardian on the Plateau”</th> <th>“The Great Wall of China”</th> <th>Both</th> </tr> </thead> <tbody> <tr> <td>Describes the spiritual meaning of the structure</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Explains where the materials used to build the structure came from</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Cites specific occurrences that have damaged the structure</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Provides reasons for the fame and popularity of the structure</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> </tbody> </table>	Phrase	“Guardian on the Plateau”	“The Great Wall of China”	Both	Describes the spiritual meaning of the structure	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Explains where the materials used to build the structure came from	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cites specific occurrences that have damaged the structure	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Provides reasons for the fame and popularity of the structure	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Table
Phrase	“Guardian on the Plateau”	“The Great Wall of China”	Both																			
Describes the spiritual meaning of the structure	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>																			
Explains where the materials used to build the structure came from	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>																			
Cites specific occurrences that have damaged the structure	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>																			
Provides reasons for the fame and popularity of the structure	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>																			

Item Number	Correct Answer	Item Type
25	<p>The information presented in "Guardian on the Plateau" is mainly organized using</p> <p><input type="text" value="description and elaboration,"/> whereas the overall presentation of ideas in "The Great Wall of China" is organized by <input type="text" value="a chronological structure."/></p>	Drop-Down
26	<p>Example Student Response</p> <p>The Sphinx and the Great Wall of China are two very well known structures today. They were both built a very long time ago. Each structure was built with different materials to support their purpose. Furthermore, the Great Wall of China was built as a defense mechanism. Because it was used to keep invaders out, they used earth and stone to keep it sturdy and have it hold up even during attacks. In contrast, the Sphinx was built as art. Because the Sphinx was just to look at, they carved it out of living rock, meaning they used the closest materials they had. They also used paint to make it so it was appealing to the Egyptians. This is very different from what they used to make the Great Wall of China because they served very different purposes. Each one was made of materials to benefit their needs. For example, they used stone for the Great Wall because it was meant to hold up during attacks and the Sphinx was just for art, which is why they just carved out of rock that was already there. In conclusion, materials are used based on their function.</p>	Written Response

ELA Grade 8 Practice Test Answer Key

Item Number	Correct Answer	Item Type
1	<div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; background-color: #e6f2ff;"> <input checked="" type="radio"/> Both activities allow her a happy escape from her gloomy reality. </div>	Multiple Choice Single-Select
2	<p>In paragraph 4, the phrase delivering me swiftly into the arms of the snowbank indicates that the narrator wondered whether she would be knocked forcefully ▾ into the pile of snow.</p>	Drop-Down
3	<div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; background-color: #e6f2ff; margin-bottom: 5px;"> <input checked="" type="checkbox"/> It helps the reader imagine how cold the air is. </div> <div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; background-color: #f9f9f9; margin-bottom: 5px;"> <input type="checkbox"/> It explains that the narrator and Alex are imitating dragons. </div> <div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; background-color: #e6f2ff; margin-bottom: 5px;"> <input checked="" type="checkbox"/> It contributes to the playful mood of the paragraph. </div> <div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; background-color: #f9f9f9; margin-bottom: 5px;"> <input type="checkbox"/> It helps the reader hear the sounds that the characters are making. </div> <div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; background-color: #f9f9f9;"> <input type="checkbox"/> It demonstrates how quickly the characters are walking through the snow. </div>	Multiple Choice Multiple-Select
4A	<div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; background-color: #e6f2ff;"> <input checked="" type="radio"/> remembers him fondly after he moves away. </div>	Multiple Choice Single-Select
4B	<div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; background-color: #e6f2ff;"> <input checked="" type="radio"/> "I crossed out all my mistakes instead of erasing them, and my pencils were still dotted with teeth marks." (paragraph 9) </div>	Multiple Choice Single-Select
5	<div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; background-color: #f9f9f9; margin-bottom: 5px;"> <input type="checkbox"/> The narrator angrily storms out of the house. </div> <div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; background-color: #e6f2ff; margin-bottom: 5px;"> <input checked="" type="checkbox"/> The narrator, saddened by recent events, struggles with loneliness. </div> <div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; background-color: #f9f9f9; margin-bottom: 5px;"> <input type="checkbox"/> The narrator refuses to make new friends after Alex moves away. </div> <div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; background-color: #f9f9f9; margin-bottom: 5px;"> <input type="checkbox"/> Alex, a boy from school, starts a snowball fight with the narrator. </div> <div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; background-color: #e6f2ff;"> <input checked="" type="checkbox"/> Alex provides the narrator with small moments of happiness before moving away. </div>	Multiple Choice Multiple-Select

Item Number		Item Type																
6	<table border="1" data-bbox="509 191 1026 300"> <thead> <tr> <th data-bbox="509 191 834 212">Excerpt</th> <th data-bbox="834 191 886 212">Grateful</th> <th data-bbox="886 191 959 212">Judgmental</th> <th data-bbox="959 191 1026 212">Sentimental</th> </tr> </thead> <tbody> <tr> <td data-bbox="509 212 834 233">"His fingernails were always grubby." (paragraph 1)</td> <td data-bbox="834 212 886 233"><input type="radio"/></td> <td data-bbox="886 212 959 233"><input checked="" type="radio"/></td> <td data-bbox="959 212 1026 233"><input type="radio"/></td> </tr> <tr> <td data-bbox="509 233 834 254">"My cheeks filled with sugar or frosting . . ." (paragraph 2)</td> <td data-bbox="834 233 886 254"><input checked="" type="radio"/></td> <td data-bbox="886 233 959 254"><input type="radio"/></td> <td data-bbox="959 233 1026 254"><input type="radio"/></td> </tr> <tr> <td data-bbox="509 254 834 300">"I could see our side-by-side sets of footprints, dear and deep on the sidewalk . . ." (paragraph 6)</td> <td data-bbox="834 254 886 300"><input type="radio"/></td> <td data-bbox="886 254 959 300"><input type="radio"/></td> <td data-bbox="959 254 1026 300"><input checked="" type="radio"/></td> </tr> </tbody> </table>	Excerpt	Grateful	Judgmental	Sentimental	"His fingernails were always grubby." (paragraph 1)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	"My cheeks filled with sugar or frosting . . ." (paragraph 2)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	"I could see our side-by-side sets of footprints, dear and deep on the sidewalk . . ." (paragraph 6)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Table
Excerpt	Grateful	Judgmental	Sentimental															
"His fingernails were always grubby." (paragraph 1)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>															
"My cheeks filled with sugar or frosting . . ." (paragraph 2)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>															
"I could see our side-by-side sets of footprints, dear and deep on the sidewalk . . ." (paragraph 6)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>															
7	<input checked="" type="radio"/> Paragraph 3	Multiple Choice Single-Select																
8A	<input checked="" type="radio"/> 2:00 and 5:00 P.M.	Multiple Choice Single-Select																
8B	<input checked="" type="radio"/> Paragraph 4	Multiple Choice Single-Select																
9	<table border="1" data-bbox="560 625 976 892"> <tbody> <tr> <td data-bbox="560 625 592 709">1</td> <td data-bbox="592 625 976 709">Light cues travel through the retina and hit cells.</td> </tr> <tr> <td data-bbox="560 709 592 772">2</td> <td data-bbox="592 709 976 772">Cells send chemicals to the brain.</td> </tr> <tr> <td data-bbox="560 772 592 835">3</td> <td data-bbox="592 772 976 835">Approximately 20,000 neurons are activated.</td> </tr> <tr> <td data-bbox="560 835 592 892">4</td> <td data-bbox="592 835 976 892">Hormones keep the body on schedule.</td> </tr> </tbody> </table>	1	Light cues travel through the retina and hit cells.	2	Cells send chemicals to the brain.	3	Approximately 20,000 neurons are activated.	4	Hormones keep the body on schedule.	Drag and Drop								
1	Light cues travel through the retina and hit cells.																	
2	Cells send chemicals to the brain.																	
3	Approximately 20,000 neurons are activated.																	
4	Hormones keep the body on schedule.																	
10	<input checked="" type="radio"/> alerting the body of incoming commands.	Multiple Choice Single-Select																
11	consistently <i>adverb</i> <u>1. with regularity</u> 2. with true character 3. with equal value 4. with firmness	Select in Passage																
12	<input checked="" type="radio"/> The body's circadian rhythms affect daily activities and health in many ways, so research is being done to see if they can be changed and controlled.	Multiple Choice Single-Select																
13	<table border="1" data-bbox="509 1272 1026 1373"> <thead> <tr> <th data-bbox="509 1272 760 1293">Research Question</th> <th data-bbox="760 1272 878 1293">Answered in Passage</th> <th data-bbox="878 1272 1026 1293">Not Answered in Passage</th> </tr> </thead> <tbody> <tr> <td data-bbox="509 1293 760 1314">What resets a person's internal clock each day?</td> <td data-bbox="760 1293 878 1314"><input checked="" type="radio"/></td> <td data-bbox="878 1293 1026 1314"><input type="radio"/></td> </tr> <tr> <td data-bbox="509 1314 760 1335">Do all animals follow circadian rhythms?</td> <td data-bbox="760 1314 878 1335"><input type="radio"/></td> <td data-bbox="878 1314 1026 1335"><input checked="" type="radio"/></td> </tr> <tr> <td data-bbox="509 1335 760 1373">What are some health risks of working at night?</td> <td data-bbox="760 1335 878 1373"><input checked="" type="radio"/></td> <td data-bbox="878 1335 1026 1373"><input type="radio"/></td> </tr> </tbody> </table>	Research Question	Answered in Passage	Not Answered in Passage	What resets a person's internal clock each day?	<input checked="" type="radio"/>	<input type="radio"/>	Do all animals follow circadian rhythms?	<input type="radio"/>	<input checked="" type="radio"/>	What are some health risks of working at night?	<input checked="" type="radio"/>	<input type="radio"/>	Table				
Research Question	Answered in Passage	Not Answered in Passage																
What resets a person's internal clock each day?	<input checked="" type="radio"/>	<input type="radio"/>																
Do all animals follow circadian rhythms?	<input type="radio"/>	<input checked="" type="radio"/>																
What are some health risks of working at night?	<input checked="" type="radio"/>	<input type="radio"/>																
14	<input checked="" type="radio"/> preserving	Multiple Choice Single-Select																
15	<p>The Congressional Research Service (CRS), a team of researchers at the library <input type="text"/>, provides members of Congress with objective <input type="text"/> information <input type="text"/> about issues such as <input type="text"/> foreign policy, economics, science, and trade.</p>	Drag and Drop																
16	<input checked="" type="radio"/> Sentence 9	Multiple Choice Single-Select																

Item Number		Item Type
17A	<input checked="" type="radio"/> procedures	Multiple Choice Single-Select
17B	<input type="text" value="procedures"/>	Text Entry
18	<input checked="" type="radio"/> The balloons need to stay within a broadcasting range, but wind currents can move them off course.	Multiple Choice Single-Select
19	<input checked="" type="radio"/> Balloons used to transmit Internet signals may one day serve as an alternative connection source in areas where fiber lines and cell towers are unaffordable.	Multiple Choice Single-Select
20	<p>Controlling the balloons is a massive computational challenge, DeVaul said. Fortunately, he added, "at Google we've got a bunch of really clever computer scientists and a lot of computing power. We now believe we can make the rest of this work, technically."</p> <p>Google, of course, has an interest in helping more people get on the Internet. The multibillion-dollar tech giant makes most of its money by showing ads to consumers who use Google's online services.</p> <p>But Project Loon is addressing "a very real problem" that affects the two-thirds of the world's population who are on the wrong side of the digital divide, said Richard Bennett. He is an expert on broadband networking at the Information Technology and Innovation Foundation.</p> <p>While the idea could work, Bennett said, it was still not clear who would pay for operating and maintaining the balloon network. Google has been vague about its plans, Bennett</p>	Select in Passage
21A	<input checked="" type="radio"/> It allows energy to be stored longer.	Multiple Choice Single-Select
21B	<input checked="" type="radio"/> "The salt can stay hot for weeks and be used to produce steam as needed." (paragraph 13)	Multiple Choice Single-Select
22	<ol style="list-style-type: none"> 1. <input type="text" value="Mirrors track the sun across the sky."/> 2. <input type="text" value="Sunlight is reflected onto the top of a tower."/> 3. <input type="text" value="Water is heated to boiling."/> 4. <input type="text" value="Steam turns turbines to produce electricity."/> 	Drag and Drop

Item Number	Correct Answer	Item Type
23	<p>According to the passage, California plans to reduce the burning of fossil fuels by</p> <p>obtaining one-third of its energy from renewable sources. ▾</p>	Drop-Down
24	<p><input checked="" type="radio"/> Explaining the intended use of each of the technologies</p>	Multiple Choice Single-Select
25	<p><input checked="" type="checkbox"/> Details about potential uncontrollable elements that could limit the effectiveness of the technologies</p> <p><input type="checkbox"/> Plans for raising the height of each technology to increase the amount of people served</p> <p><input type="checkbox"/> Environmental studies to protect ecological habitats from being negatively affected by the technologies</p> <p><input checked="" type="checkbox"/> Concerns about the high costs of developing the technologies</p> <p><input type="checkbox"/> Experimental tests of the respective technologies to look for potential improvements</p>	Multiple Choice Multiple-Select
26	<p>Example Student Response</p> <p>The claim that “The Google Loom project and the Ivanpah power plant rely on different aspects of the environment to make them work” is correct. The Ivanpah power plant uses the sun to focus the heat and light into a certain place to produce energy. The Google Loom uses the wind to move the balloons and keep them aligned. In Passage 2, the author does state that a scarcity in sunlight could negatively affect the amount of energy produced, limiting projects like this to the southwestern parts of the U.S. Passage 1 describes how wind patterns and weather affects the balloons movements, thus leading Google to come up with technology and ways to keep the balloons at a constant altitude and a precise location. The texts explicitly show the reliance of the two projects on the environment.</p>	Written Response

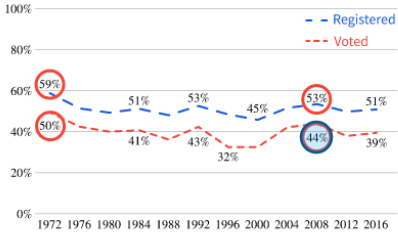
ELA Grade 9 Practice Test Answer Key

Item Number	Correct Answer	Item Type
1	<input checked="" type="radio"/> Carl and Alexandra once knew each other well but have been separated.	Multiple Choice Single-Select
2	<input checked="" type="radio"/> A discussion about her brothers reveals Alexandra as accepting of others but also independent.	Multiple Choice Single-Select
3A	<p>"I think I liked the old Lou and Oscar better, and they probably feel the same about me. I even, if you can keep a secret,"—Carl leaned forward and touched her arm, smiling, —"I even think I liked the old country better. This is all very splendid in its way, but there was something about this country when it was a wild old beast that has haunted me all these years.</p>	Select in Passage
3B	<input checked="" type="radio"/> It expresses a sentimental tone about the land.	Multiple Choice Single-Select
4	<p>Paragraphs 14 through 18 primarily develop the plot by</p> <div style="border: 1px solid #ccc; border-radius: 5px; padding: 5px; display: inline-block;"> resolving Carl's anxiety about the past. ▼ </div>	Drop-Down
5	<div style="border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 5px;"> <input type="checkbox"/> "Carl had changed, Alexandra felt, much less than one might have expected." (paragraph 1) </div> <div style="border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 5px;"> <input type="checkbox"/> "For years after that I was always squeezing and borrowing until I was ashamed to show my face in the banks." (paragraph 4) </div> <div style="border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 5px;"> <input type="checkbox"/> "I'm cowardly about things that remind me of myself. It took courage to come at all, Alexandra." (paragraph 12) </div> <div style="border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 5px;"> <input checked="" type="checkbox"/> "Alexandra, all the way out from New York I've been planning how I could deceive you and make you think me a very enviable fellow, and here I am telling you the truth the first night." (paragraph 14) </div> <div style="border: 1px solid #ccc; border-radius: 5px; padding: 5px;"> <input checked="" type="checkbox"/> "You see . . . measured by your standards here, I'm a failure." (paragraph 15) </div>	Multiple Choice Multiple-Select
6	<input checked="" type="radio"/> Being connected to others is an important part of life.	Multiple Choice Single-Select
7	<input checked="" type="radio"/> As a child in school, Johnson had an intense curiosity, excelled at math, and skipped several grades.	Multiple Choice Single-Select

Item Number		Item Type
8A	<input checked="" type="radio"/> analyzing	Multiple Choice Single-Select
8B	<input type="text" value="analyzing"/>	Text Entry
9	<p>When NACA <input type="text" value="transformed"/> into NASA (National Aeronautics and Space Administration) in 1958, she went to work on the space program as a "human computer," literally computing complex math equations essential to helping launch America's earliest human spaceflights.</p>	Drop-Down
10	<input checked="" type="radio"/> Over her lifetime, Johnson helped to put a human into outer space, while also helping to change a culture that once rejected African American women in the scientific workforce.	Multiple Choice Single-Select
11A	<input checked="" type="radio"/> basic building blocks	Multiple Choice Single-Select
11C	<p><u>Think atoms and molecules,</u> and now you're there. You're down at the nanoscale, where scientists are learning about these fundamental components of matter and are <u>putting them to use in beneficial ways.</u></p>	Select in Passage
12	<input checked="" type="radio"/> The surface area becomes larger when an object is broken into smaller parts.	Multiple Choice Single-Select
13	<p>Biomimicry is the design and production of materials and structures that are inspired by naturally occurring materials and processes. Nanoscale materials are common in nature. From the <u>molecular machines that translate DNA into proteins to the structures that keep leaves clean and bacteria off insect wings,</u> nature operates at the nanoscale. Our bodies use natural nanoscale materials, such as proteins and other molecules, to function.</p> <p>In fact, many important functions of living organisms take place at the nanoscale; the diameter of double-stranded DNA is just 2.5 nanometers. Researchers have copied the nanostructure of lotus leaves to create water-repellent surfaces. Today, these coatings are used to make stain-proof clothing and <u>anti-icing coatings for airplane wings and wind turbines.</u> Scientists are also creating antimicrobial surfaces that mimic the nanoscale structures on cicada wings.</p>	Select in Passage
14A	<input checked="" type="radio"/> Working at the nanoscale is relevant across all sciences.	Composite - Member

Item Number	Correct Answer	Item Type								
14B	<p>“... materials can have different properties at the nanoscale—some are better at conducting electricity or heat, some are stronger, some have different magnetic properties, and some reflect light better or change colors depending on their size.” (paragraph 5)</p>	Multiple Choice Single-Select								
15	<table border="1"> <thead> <tr> <th data-bbox="500 411 586 443">Paragraph</th> <th data-bbox="586 411 1060 443">Purpose</th> </tr> </thead> <tbody> <tr> <td data-bbox="500 443 586 499">Paragraph 6</td> <td data-bbox="586 443 1060 499">To introduce one reason nanoscale materials behave differently from larger materials</td> </tr> <tr> <td data-bbox="500 499 586 556">Paragraph 9</td> <td data-bbox="586 499 1060 556">To demonstrate the size of the nanoscale</td> </tr> <tr> <td data-bbox="500 556 586 613">Paragraph 13</td> <td data-bbox="586 556 1060 613">To state a difference between nanoscale materials in nature and those created by scientists</td> </tr> </tbody> </table>	Paragraph	Purpose	Paragraph 6	To introduce one reason nanoscale materials behave differently from larger materials	Paragraph 9	To demonstrate the size of the nanoscale	Paragraph 13	To state a difference between nanoscale materials in nature and those created by scientists	Drag and Drop
Paragraph	Purpose									
Paragraph 6	To introduce one reason nanoscale materials behave differently from larger materials									
Paragraph 9	To demonstrate the size of the nanoscale									
Paragraph 13	To state a difference between nanoscale materials in nature and those created by scientists									
16	<p><input type="checkbox"/> The raw materials used in most forms of nanotechnology are found in the plant kingdom.</p> <p><input checked="" type="checkbox"/> The natural world contains solutions to many human design problems.</p> <p><input type="checkbox"/> Technology based on natural structures is less harmful to the environment than other technology.</p> <p><input checked="" type="checkbox"/> Many naturally occurring systems already operate on the nanoscale.</p> <p><input type="checkbox"/> Nature produces more adaptable structures than those produced by humans.</p>	Multiple Choice Multiple-Select								
17	<p><input type="checkbox"/> A blog post by a college biology student titled “How Nanotechnology Will Save Us: Lessons for the Future”</p> <p><input checked="" type="checkbox"/> A textbook chapter titled “Designing from Nature: How Engineers Find Inspiration in their Surroundings”</p> <p><input checked="" type="checkbox"/> An article from an architecture magazine called “Learning from Termites How to Create Buildings that Last”</p> <p><input type="checkbox"/> A story on the National Science Academies Web site titled “The Smaller the Better: How Surface Area Contributes to Nanotechnology”</p> <p><input type="checkbox"/> A study produced by the research lab at a medical school titled “Using Robots to Deliver Medicine—What Technology Exists and Where We Go from Here”</p>	Multiple Choice Multiple-Select								
18	<p><input checked="" type="radio"/> show that a historical precedent exists for lowering the voting age in the United States.</p>	Multiple Choice Single-Select								
19	<p><input checked="" type="radio"/> It shows that some states have encouraged young potential voters by allowing 17-year-olds to vote in primaries if they meet certain requirements.</p>	Multiple Choice Single-Select								

Item Number	Correct Answer	Item Type
20A	<input checked="" type="radio"/> Voting at a young age increases the chances for turning the practice into a regular habit.	Multiple Choice Single-Select
20B	<input checked="" type="radio"/> "... studies have shown that the earlier people vote for the first time, the more likely they are to continue voting throughout their lives." (paragraph 11)	Multiple Choice Single-Select
21	Because Congress had <input type="text" value="lowered the age for military service to 18,"/> many young people were <input type="text" value="forced to fight in the Vietnam War,"/> which eventually contributed to the passage of the Twenty-Sixth Amendment.	Drop-Down
22	<input type="checkbox"/> The Twenty-Sixth Amendment was an unexpected change to the Constitution. <input checked="" type="checkbox"/> The Voting Rights Act Amendments failed to establish a permanent, universal voting age of 18. <input type="checkbox"/> The Twenty-Sixth Amendment established residency requirements that often make voting difficult for college students. <input checked="" type="checkbox"/> The courts have played a key role in determining the minimum age of voters in local, state, and national elections. <input type="checkbox"/> The Twenty-Sixth Amendment was largely responsible for the election of two presidents.	Multiple Choice Multiple-Select
23	<input checked="" type="radio"/> "Most courts hearing similar cases have agreed, determining that election officials are not allowed to single out college students and ask if they intend to stay at their location after they finish school." (paragraph 9)	Multiple Choice Single-Select
24	<p>The 26th Amendment to the Constitution grants citizens who are "18 years of age or older" the right to vote. The Supreme Court case of Oregon v. Mitchell (1970) played an important role in the creation of this amendment. Originally, Americans had to be 21 years old to vote. However, during the Vietnam draft, Congress was forced to enact the Voting Rights Act of 1970, lowering the voting age to 18 for all elections (federal, state, and local). In Oregon v. Mitchell, the Supreme Court decided that "the Constitution authorized Congress to lower the voting age in federal elections but not in local or state elections." Therefore, Congress had to propose the 26th amendment to lower the voting age for</p>	Written Response

Item Number		Item Type																				
	every election. This clearly indicates that this case played an important role in the creation of the 26th Amendment.																					
25	<table border="1" data-bbox="493 302 1068 506"> <thead> <tr> <th>Description</th> <th>"Rock the Vote"</th> <th>"The Twenty-Sixth Amendment"</th> <th>Both</th> </tr> </thead> <tbody> <tr> <td>Explains why the voting age was lowered in 1971</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> </tr> <tr> <td>Traces the history of legal battles about the voting age</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Provides an international perspective on the voting age</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Discusses research on lowering the voting age to 16</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> </tbody> </table>	Description	"Rock the Vote"	"The Twenty-Sixth Amendment"	Both	Explains why the voting age was lowered in 1971	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Traces the history of legal battles about the voting age	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Provides an international perspective on the voting age	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Discusses research on lowering the voting age to 16	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Table
Description	"Rock the Vote"	"The Twenty-Sixth Amendment"	Both																			
Explains why the voting age was lowered in 1971	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>																			
Traces the history of legal battles about the voting age	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>																			
Provides an international perspective on the voting age	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>																			
Discusses research on lowering the voting age to 16	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>																			
26A	<input checked="" type="radio"/> The percentage of young citizens who voted during the 2008 presidential election	Multiple Choice Single-Select																				
26B	<p data-bbox="651 722 1016 789">Percentage of Young Adults (Ages 18-24) Who Reported Registering to Vote and Voting in Presidential Elections: 1972-2016</p>  <p data-bbox="621 1041 1016 1083">Source: U.S. Census Bureau. (2018). Historical reported voting rates [Table A-1]. Retrieved from https://www.census.gov/data/tables/time-series/demo/voting-and-registration/voting-historical-time-series.html. In the public domain.</p>	Zone																				