

Student Name \_\_\_\_\_

Teacher Name \_\_\_\_\_

School \_\_\_\_\_

System \_\_\_\_\_

# MAAS



# TENNESSEE

## Tennessee Comprehensive Assessment Program Modified Academic Achievement Standards ~ Grade 7 Practice Test





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# Introduction

## What is the TCAP Modified Academic Achievement Standards Test?

The TCAP Modified Academic Achievement Standards Test is a multiple-choice test designed to measure student achievement in certain skills in four content areas: Reading/Language Arts, Mathematics, Science, and Social Studies. The questions in this practice test are examples of items used in the actual test.

## What are the questions testing?

Questions are written to test student performance in state content standards. The State Content Standards and Performance Indicators were developed by the Tennessee Department of Education. These Standards and Performance Indicators are listed on the State Department of Education Web site at <http://www.state.tn.us/education/curriculum.shtml>.

## Who is eligible to be tested?

1. Students with a disability who are on an active IEP are eligible to take the MAAS.
2. Eligible students may have a disability in any of the Federal disability categories.  
Note: The category Functionally Delayed is a State category, but a student cannot be excluded from participation in this assessment based on category of disability. A student whose disability is classified as Functionally Delayed is eligible to participate in this assessment if determined eligible by the IEP team, but the student will be considered a non-participant and his scores cannot be counted for AYP. **A student classified as Functionally Delayed taking the test would not count toward the 2% cap because he is considered a non-participant.**
3. It is the decision of the IEP team whether or not a student with a disability should be assessed with the MAAS.

## How long will the tests take?

The length of the tests will vary, depending on the grade level. The time limits are generous and allow most students time to finish. Extended time limits only apply to students who are eligible for special or English Language Learner (ELL) accommodations.

## How will the tests be scored?

The test answers will be machine scored. Results from the test provide information about how well students performed on the content being tested.

### **May calculators be used?**

Calculators may be used on Part 1 and 2 of the mathematics portion of the TCAP Modified Academic Achievement Standards Test (grades 3–8) as per system policy.

### **Which test accommodations may be used?**

The TCAP Modified Academic Achievement Standards Test may be administered using various procedures that are used during the student’s daily educational program. Certain conditions must be met for students to be eligible for special and ELL accommodations.

### **What is the purpose of the practice test?**

In a classroom learning session, these questions can be used to prepare students for the actual test. Teachers can use the practice test to help familiarize students with the format of test questions and how the actual test will be administered. This practice test can also be used to inform parents of the type of test their children will be taking.

### **Here are some tips for preparing students for the test.**

Remind students to:

**Relax:** It is normal to be somewhat anxious before the test. Remember that the score is only one of a number of measures of performance.

**Listen:** Listen to and read the test directions carefully.

**Plan Use of Time:** First, answer all the questions you are sure about. Do not spend too much time on any one question. If a question seems to take too long, skip it and return to it later if you have extra time.

**Pause and Think:** If you are not sure how to answer a question, carefully read it again. Rule out answer choices that you know are incorrect and then choose from those that remain.



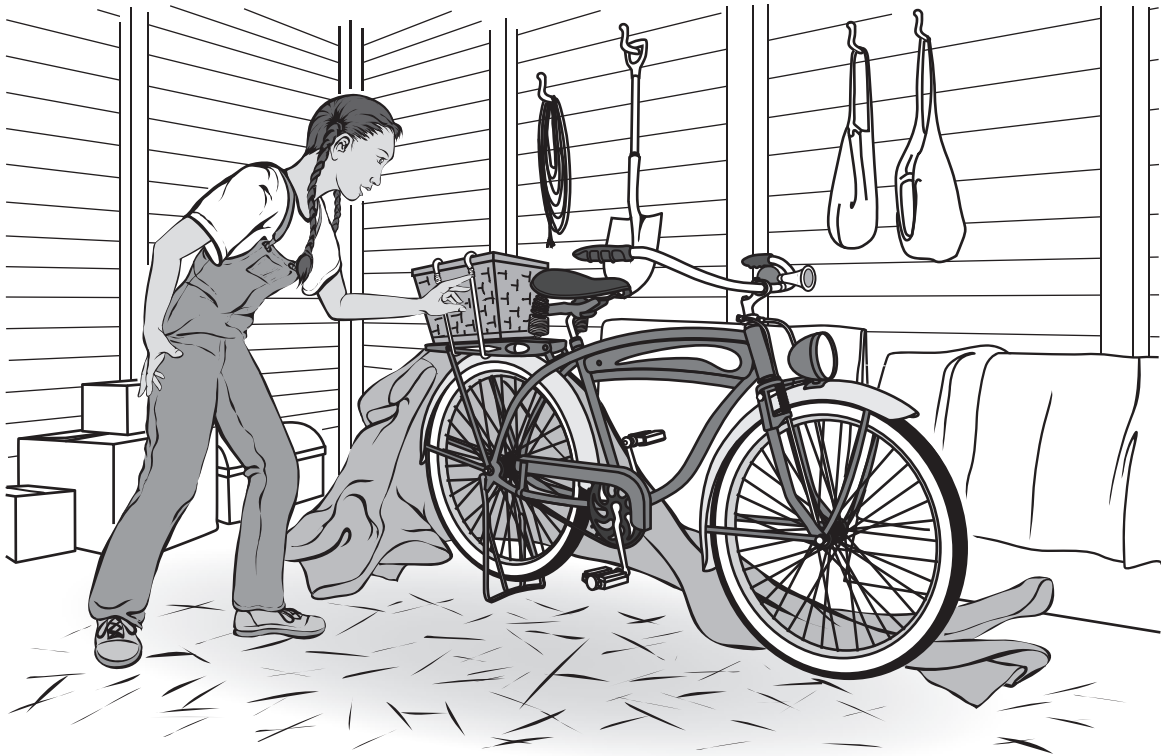
**Directions** Read the passage. Then answer Numbers 1 through 6.

### Recycled Bicycle

- 1 “When you finish that, would you help me over here, Emma?”
- 2 “Sure thing, Mrs. Ames,” Emma said as she helped her neighbor clean the small barn. The farm where Mrs. Ames lived was surrounded by the city now. The barn was a reminder that the neighborhood used to be farmland.
- 3 “What should I do with the bales of hay?” Emma asked.
- 4 “Please leave them right there,” said Mrs. Ames.
- 5 Emma had been working to save money to buy a new bike and dreamed of riding it to school and to soccer. She wanted a gleaming candy-apple red ten-speed bike with racing tires. It had to have racing tires!
- 6 Emma carefully sorted the old items. Mrs. Ames had said that, for forty years, the barn was a place to “postpone decisions” about throwing away old or broken items. Finally, the time had come to decide what to do with this stuff. Today Mrs. Ames and Emma were making all of those decisions.
- 7 Near the back of the barn Emma saw an old canvas cloth. When she lifted the heavy cloth, she saw a rusty bicycle with cracked tires. “Well,” Emma thought, “this clearly goes out on the junk heap.”
- 8 Still, someone had cared enough for this bike to cover it with a canvas tarp. Emma studied the ruin and thought that it was nothing like the bike **she** wanted.

*Go On* ►

9 Instead of a straight bar across the frame, this bike featured a curved bar with scalloped indentations. Emma took an old sack and brushed away the dust and saw midnight-blue paint underneath. She smudged off more dust and discovered a bright white star with a trailing tail. The word “COMET” was written there, its letters trailing to indicate speed.



10 Emma stepped back to look at the bike again. It had a fender over the back tire and a thick metal guard covered the chain. It was a wreck, Emma thought, but it was a classic, an antique. Emma stared at the bike, trying to imagine the bike when it was new. She smiled and nodded.

11 “You found my bike!” exclaimed Mrs. Ames. “That brings back some memories.”

12 “How old is it?” Emma asked.

13 “Younger than I am!” Mrs. Ames said, chuckling. “I bought the bicycle with money I earned by selling eggs. I walked into town carrying the eggs in the basket that is now on my bike.”

14 “Was ‘Comet’ a brand name back then?”



15 “No. I stenciled that myself because there was a comet that year — 1948  
— that was sure special. That’s when I named my bicycle “Comet.” It seemed  
like I was traveling as fast as a comet when I went into town with those eggs. I  
never broke one, either!”

16 “Mrs. Ames . . . your bike is not like any other bike I’ve ever seen. I know  
you still love your bike.” Emma hesitated and said, “Would you be willing to  
give me your bike instead of paying me?”

17 “Are you sure you want **this** bike? It’s nothing like the bike you described  
to me.”

18 “I can see that this bike is special, Mrs. Ames, and I’m sure I can fix it up. It  
needs new tires, a drop of oil on the chain, and a little polishing.”

19 “It might need a new horn, too,” said Mrs. Ames, reaching out to honk  
the old one. Instead of a loud squeak, the horn gave a tired sigh. “It’s a deal,  
Emma.”

20 Emma beamed as she wheeled the bike into the light. She could really see it  
now: the gleaming, midnight-blue COMET flying down the streets. It would be  
just the thing for getting to school or soccer practice.

**1** Read the sentences from Paragraph 6.

Mrs. Ames had said that, for forty years, the barn was a place to  
“postpone decisions” about throwing away old or broken items.  
Finally, the time had come to decide what to do with this stuff.

Choose a synonym for the underlined word.

- A challenge
- B rehearse
- C delay

*Go On* ►

**2** Choose the sentence that best states the theme of the passage.

- F** Working hard is a satisfying experience.
- G** Finding an unexpected treasure is rewarding.
- H** Remembering the past can be very pleasant.

**3** The author reveals Emma's feelings about finding Mrs. Ames's bicycle through what

- A** Mrs. Ames does.
- B** Emma thinks and says.
- C** Emma and Mrs. Ames think.

**4** The author's point of view in this passage is

- F** first person.
- G** third-person limited.
- H** third-person omniscient.

**5** The author most likely wrote this passage to

- A** entertain readers with a tale about having a dream fulfilled.
- B** persuade readers to preserve and restore things of the past.
- C** describe to readers the benefits of volunteering in a neighborhood.

**6** Look at the list.

- 
- owned bales of hay
  - lived in a farmhouse
  - cleaned out a barn
  - gathered eggs to sell

Choose the best title for the list.

- F** Raising Children in the Country
- G** Selling Homegrown Food
- H** Life in a Rural Setting

*Go On* ►

**Directions**

This is a rough draft of a student's report. It contains mistakes. Read the report and answer Numbers 7 through 15.

1 Alexander Graham Bell is famous for his work with the telephone. However, Bell invented many things in his life. He was a scientist who experimented with new ideas all of his life. Bell built his first invention when he was only 12. Even at that young age, he wanted to understand and improve the world, and he dedicated his life to inventing.

2 He also started a school for children who were deaf. Bell invented the audiometer, a machine used to check hearing. Bell further helped people who could not hear by teaching them to make sounds.

3 Late in his life, Bell became interested in flight. He wanted to design a kite that had a motor and a passenger. The first step was to find the right shape. Bell sent up kites shaped like cubes, rings, and cylinders. \_\_\_\_\_ Bell did not create the first "flying machine," his experiments were useful. After many trials, he finally discovered the perfect shape — a tetrahedron, or a triangle-shaped pyramid. Today, the tetrahedron is used in supports for bridges and other heavy structures.

4 Bell also improved other people's inventions. Thomas Edison's record player had so many problems that Edison gave up trying to fix it.

5 Bell once said, "Wherever you may find an inventor he will go on inventing. He can no more help inventing than he can help thinking or breathing." Thinking and breathing were two skills that Bell felt were important for inventors. These words certainly describe the way Bell lived his life.

**7** This report was probably written for

- A** consumers who own telephones.
- B** the editorial section of the newspaper.
- C** an assignment for a science class.

**8** Which sentence is the best thesis statement for the report?

- F** Alexander Graham Bell is famous for his work with the telephone.
- G** Even at that young age, he wanted to understand and improve the world, and he dedicated his life to inventing.
- H** Bell further helped people who could not hear by teaching them to make sounds.

**9** Read this sentence.

One of Bell's inventions was inspired by his mother and wife, who were both deaf.

To add more support, this sentence would best be placed

- A** in Paragraph 1.
- B** in Paragraph 2.
- C** in Paragraph 3.

*Go On* ►

**10** Read this sentence from Paragraph 3.

\_\_\_\_\_ Bell did not create the first “flying machine,” his experiments were useful.

**Which transitional word should be added to the beginning of the sentence?**

- F** Although
- G** However
- H** Finally

**11** Read Paragraph 4.

Bell also improved other people’s inventions. Thomas Edison’s record player had so many problems that Edison gave up trying to fix it.

**Choose the sentence that would best conclude this paragraph.**

- A** Edison became famous for his invention of the electric lamp and the motion picture camera.
- B** Many years later, Bell worked to make the phonograph that Edison had invented useful and popular.
- C** Bell and Edison were inventors that lived in different time periods and had different professions.

**12** Choose the sentence that should be removed from the report.

- F** Bell invented the audiometer, a machine used to check hearing.
- G** Bell also improved other people's inventions.
- H** Thinking and breathing were two skills that Bell felt were important for inventors.

**13** The author's purpose for writing this report was most likely to

- A** describe to readers the plans for some inventions.
- B** inform readers about a famous inventor.
- C** persuade readers to become inventors.

**14** The report is an example of which type of writing?

- F** descriptive
- G** persuasive
- H** technical

**15** Which of these would be the best title for the report?

- A** Changing the World of Sound
- B** Thomas Edison and Alexander Graham Bell
- C** Audiometer, Phonograph, Tetrahedrons — All About Bell

*Go On* ►

**Directions** Read and answer Numbers 16 through 19.

**16** Which sentence is an example of inductive reasoning?

- F** My dog likes to have his ears scratched; most dogs probably like to have their ears scratched.
- G** No one in my grade can drive; if I want a ride home, I will probably have to ask an adult.
- H** Our football team has won every game this year; they will probably get their highest score in the next game.



**17** Read this excerpt from a film screenplay.

**Movie: One More Race to Run**

**Opening Scene:**

Sudden shift from black screen to white. Footsteps slap pavement. The sound of breathing and crowd noise are hushed in the background. The camera focuses on Billy Mills running through the tunnel under the stadium and then out into the sunlight. The sound of the footsteps accelerates. He crosses the finish line and snaps it just as the soundtrack begins.

Voiceover of announcer: Billy Mills crosses the finish line. Look at Billy Mills! Look at Billy Mills! Amazing! Billy Mills has just become the first American to win the 10,000-meter event. What a great day for Billy Mills! What a great day for America!

With the sound of the announcer still in the background, the scene fades to show Billy Mills, 10 years earlier, running with other boys at the Pine Ridge Reservation. An older friend shouts, “Billy, you’re too little to run with us!” Mills grins and begins running faster, passing them one at a time.

Choose the statement that best summarizes the message of the film’s opening scene.

- A** Running well requires a lot of practice.
- B** Speed is more important than talent.
- C** Determination leads to success.

*Go On ►*

- 18** Will wrote instructions for creating a compost pile. Read Will's instructions.

### Creating a Compost Pile

Compost is often used to improve the quality of gardening soil. Follow these easy steps to create a compost pile.

1. Begin by putting down a 3-inch layer of coarse plant matter, such as small twigs, chopped plant stalks, or coarse wood chips.
2. Add 8 to 10 inches of dry leaves or other dry plant matter from your yard.
3. Add a sprinkling of soil to each layer to introduce tiny organisms that cause the plant matter to decay.
4. Provide nitrogen for these compost-promoting organisms by adding 2 to 3 inches of fresh grass clippings.
5. Moisten the materials each time clippings and leaves are added, keeping the pile damp but not soggy.

**Which step is missing from Will's instructions?**

- F** how often the materials need to be moistened
- G** how to know when the compost pile is ready to use
- H** how to make sure the pile contains small organisms

- 19** Which sentence provides an example of a false premise?

- A** In order to pass the class, attendance is mandatory.
- B** If a television star gave a statement, the information must be correct.
- C** When food is warmed in the microwave, it can become too hot to touch.

**Directions**

Read the poem. Then answer Numbers 20 through 25.

## Doing the Tango

by John Roberts

In my house, we celebrate everything.  
Even the smallest things.  
Good grades on a test.  
Learning that we are going  
5 On vacation.  
Even a surprise present.  
The reward is  
“doing the tango.”  
The dogs want to join in  
10 And scramble to find a toy  
A bone, a partner to celebrate  
The joyful dance.  
Learning to do the tango  
Was a hard job in itself.  
15 When I was young,  
The turn and the switch  
Of hands  
Was the most challenging.  
Now it comes naturally.  
20 The greatest part of all  
Is seeing the joy  
On my mother’s face  
When she knows  
There is good news,  
25 Meaning  
We get to dance the tango.

*Go On* ►



“Doing the Tango” by John Roberts, age 13, from *Stone Soup the magazine by young writers and artists*, May/June 2003, copyright © 2003 by the Children’s Art Foundation. Used by permission.

**20** “Doing the Tango” is best described as a poem because it uses

- F** rhythm and short lines.
- G** dialogue and actions.
- H** directions for a dance.

**21** Based on the poem, what does the reader understand about the narrator?

- A** He likes going to school.
- B** He knows many different dances.
- C** He enjoys seeing his mother happy.

**22** What is the theme of the poem?

- F** Everyone deserves a nice surprise once in a while.
- G** Learning to dance is difficult but well worth the effort.
- H** Appreciate the many good things that happen in life.

**23** Which line from the poem is an example of hyperbole?

- A** In my house, we celebrate everything.
- B** Even the smallest things.
- C** Good grades on a test.

**24** In the narrator’s family, “doing the tango” is a symbol for

- F** happy occasions.
- G** dancing alone.
- H** being young.

**25** The writer most likely wrote “Doing the Tango” to

- A** instruct readers about how to dance.
- B** persuade readers to appreciate others.
- C** tell readers about a family tradition.

*Go On ►*

**Directions** Read the speech. Then answer Numbers 26 through 33.

## Washington Middle School “Green” Addition

Allison Reagan is giving a speech to the school board.

1 My name is Allison Reagan, and I am a seventh grader at Washington Middle School. I hope you will seriously consider the ideas I am presenting to you tonight.

2 There is much talk about living “green.” Many of us help care for the environment by using recycled printer paper and drinking water from reusable bottles. We try to follow the advice to “reduce, reuse, and recycle,” because we want to help protect our environment.

3 While eating lunch outside the other day, I looked at the place where the new addition to the school will be built. I wondered how much wood, metal, and glass it would take to build the new rooms. Then I had an idea.

4 If small changes were made to the building plans, our new addition could be a “green” addition. I found information on the Internet about doing this.

5 Other schools in the world are making “green” choices. One school in Ireland has changed how their building is managed. Light bulbs that require less energy are used. Water use is monitored. They also build their own mulch pits for gardening. They recycle paper and conserve energy by turning off lights and other appliances when not in use.

6 With little effort, our school can be “green” too.

7 First of all, we can reuse materials from buildings that are being torn down in our new construction project. Doorknobs, cabinet handles, and even wood can be used again. The materials may only need to be sanded or polished to look new again.

8 Many materials are used to make floors. With most buildings, a concrete slab is poured. Then tile, carpet, or wood is laid on top. Have you considered dying the concrete instead of covering it? The floor will be beautiful and it will eliminate the extra work and supplies.





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9 The new addition could have a digital thermostat. These types of thermostats can be set on a timer. They can be programmed to adjust the temperature in the building. This will use less energy when no one is there.

10 Our school can also begin using special light bulbs. These new bulbs look curly and odd. They cost a little bit more than regular bulbs, but they last longer and use less energy. In time, our school will save money.



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11 The school in Ireland that I mentioned earlier has formed a group called the “energy detectives.” These students are chosen to help monitor the energy and water the school is consuming. They help keep lights turned off when they are not being used. They also turn off leaky water faucets or help report them for repair. A group like this would be a great way to get Washington Middle School students involved in our own “green” effort.

12 Going “green” costs more at first. I propose that we start trying to raise some extra funds to support our efforts. To do my part, I am willing to organize a fundraising project. A group of my friends and I would like to collect old, used cell phones and used printer ink cartridges from members of our community. We are confident that community members will donate these items to help improve our school. We will recycle these items and donate the money collected to our project.

13 Even if this plan doesn’t go into effect for Washington Middle School, I hope you’ll consider the ideas I’ve presented for future school district building projects. Each of us can make a difference — whether at school or at home.

14 I appreciate your time, and I hope you will consider this very important proposal.

*Go On* ►

**26** In her speech, Allison is addressing an audience of

- F** students in her class.
- G** school board members.
- H** teachers in the school.

**27** Read these sentences from Paragraph 11.

These students are chosen to help monitor the energy and water the school is consuming. They help keep lights turned off when they are not being used. They also turn off leaky water faucets or help report them for repair.

The word monitor means to

- A** study.
- B** change.
- C** watch.

**28** Allison has listed the organization of her speech. Read Allison’s list.

Introduction Present Ideas Closing Remarks
--

Allison wants to add a brief summary to her speech. Where should “Brief Summary” be placed?

- F** before the Introduction
- G** after the Introduction
- H** before the Closing Remarks



**29** Choose the sentence that best identifies the thesis of Allison’s speech.

- A** Many of us help care for the environment by using recycled printer paper and drinking water from reusable bottles.
- B** If small changes were made to the building plans, our new addition could be a “green” addition.
- C** One school in Ireland has changed how their building is managed.

**30** What can Allison do to engage her audience?

- F** use a quiet voice
- G** wave her hands often while she speaks
- H** make eye contact with her audience

**31** The reason Allison wrote this speech is most likely to

- A** entertain listeners with a story about the environment in Ireland.
- B** persuade listeners to consider using recycled materials to build the new part of the school.
- C** explain to listeners how easy and environmentally friendly recycling can be.

*Go On ►*

**32** Read these sentences from Paragraph 12.

Going “green” costs more at first. I propose that we start trying to raise some extra funds to support our efforts.

What does the word propose mean as it is used in the sentences above?

- F** suggest
- G** demand
- H** believe

**33** How is the speech organized?

- A** problem-solution
- B** chronological order
- C** cause-effect

**Directions** Read and answer Numbers 34 through 37.

**34** Choose the sentence that is written correctly.

- F** He is the student what made a 100 on the test.
- G** I saw them photographs you took on your trip.
- H** Willa is a new student who moved here from Alabama.

**35** Choose the sentence that is written correctly.

- A** My math teacher, Mr. Ramirez is known for his clear explanations of geometry.
- B** My math teacher Mr. Ramirez, is known for his clear explanations of geometry.
- C** My math teacher, Mr. Ramirez, is known for his clear explanations of geometry.

*Go On* ►

**36** Which sentence is written correctly?

- F** The word capital has many “meanings.”
- G** Cats is the longest running play on Broadway.
- H** “Pride and Prejudice” is my favorite of Jane Austen’s novels.

**37** Which sentence is written correctly?

- A** There are two main types of beagles: 13-inch and 15-inch.
- B** There are two main types of beagles. 13-inch and 15-inch.
- C** There are two main types of beagles; 13-inch and 15-inch.

**STOP** 

**DO NOT  
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PAGE**

## Part 2

**Directions** Read the story. Then answer Numbers 38 through 45.

### The Election

1 “I can’t believe what I’m hearing,” I thought to myself. Jeff Stafford was the last candidate announced to run for president of student council.

2 I looked around to see how my classmates felt about this announcement. It was hard to tell if they were glad or sad.

3 Finally, my best friend, Eric, turned toward me. “I’m sorry, Cliff. I really thought you were going to be chosen to run for president,” he said.

4 “Oh well,” I responded. “I guess these things happen.”

5 Later that day, I walked through the lunch line and happened to pass Jeff. He looked as if he wanted to ask me something. I offered him a polite “congratulations” and strolled to my usual table. To my surprise, Jeff plopped his tray down beside mine.

6 “Cliff, I need to talk with you about something,” he said nervously.

7 “What is it?” I asked hesitantly.

8 “Would you consider working on my campaign?” he asked. “You are smart, creative, and organized. We could use your help.”

9 “I don’t think so,” I said, feeling unsure.

10 “If you change your mind, we are meeting tomorrow at 3:15,” he said before walking away.

11 I couldn’t stop thinking about Jeff’s offer. I had wanted to be part of student council. Maybe helping with the election would allow me to help make changes at our school. I decided to join Jeff’s campaign.

12 Everyone at the meeting was glad to see me. It was easy for me to think of ideas to help Jeff win the election, and the members of the team were excited about my suggestions.

13 Student council presidents have many duties. They organize and lead the student council meetings and represent the student body at conferences with

the school’s administrators. After all, the administration decides all policies. They are also responsible for managing student council funds. I needed to convince the school that Jeff was the perfect candidate for the position.

14 I decided to create a catchy ad that would get kids to vote for Jeff: “Get Jeff and Get Active.” This slogan was perfect because Jeff believed that all students should get involved in school activities.

15 Within days, we designed campaign posters with Jeff’s slogan. Then I included pictures of Jeff that showed him involved in activities including soccer, the computer club, and Boy Scouts. No one could walk through any hallway without passing Jeff’s smiling face.



16 “These posters look great!” I heard a student say.

17 “Yes,” replied another one. “I bet he would make a good president for student council.”

18 My next step involved talking with students to find out which new activities they would like to have at our school. Many students suggested a chess club and a tennis team.

19 Later, Jeff took the list of activities that students had suggested to a meeting with the principal. The principal said that he would add these activities at our school. Now I just had to find a way to let other students know.

*Go On ►*

20 Jeff talked with students about these new activities in study hall classes,  
as well as before and after school. Wherever he went, Jeff and our ideas were  
received with enthusiasm.

21 “I can’t wait for tennis team tryouts,” an eighth grade girl said.

22 “I know,” replied her friend. “With Jeff as president, it’ll be like attending a  
new school.”

23 “He’s got my vote,” added another friend. “I’m excited about a chess club.”

24 Hearing these words made my heart swell with pride. I had originally  
wanted to become president of student council, but I achieved **more** by  
working as a member of Jeff’s team. Jeff ended up winning the election, and I  
was a large part of his success. I have found a new talent that I enjoy. The fact  
that it has made a difference in other people’s lives is the real prize. What a  
great feeling!

**38** Read the excerpt from Paragraph 13.

Student council presidents have many duties. They organize and lead the student council meetings and represent the student body at conferences with the school’s administrators. After all, the administration decides all policies.

**Which of these is an example of an administrator?**

**F** a principal

**G** a parent

**H** a student



**39** “The Election” is an example of a short story because it

- A** provides instructions about running a campaign.
- B** describes fictional events and people.
- C** communicates facts about the life of an actual person.

**40** Read Paragraph 19.

Later, Jeff took the list of activities that students had suggested to a meeting with the principal. The principal said that he would add these activities at our school. Now I just had to find a way to let other students know.

Choose the plot element in this paragraph that best represents Jeff’s meeting with the principal.

- F** rising action
- G** climax
- H** falling action

**41** Jeff asks for Cliff’s help because

- A** Cliff is one of his good friends.
- B** Cliff has worked with him before.
- C** Cliff has skills that he admires.

*Go On* ►

**42** What type of persuasive device is used with Jeff’s campaign posters?

- F** bandwagon
- G** name-calling
- H** testimonial

**43** What does this passage teach about teamwork?

- A** It can take teams a long time to learn to work together.
- B** Working as a team can make everyone a success.
- C** People on teams should try to listen carefully to one another.

**44** Read Paragraphs 14 through 17.

I decided to create a catchy ad that would get kids to vote for Jeff: “Get Jeff and Get Active.” This slogan was perfect because Jeff believed that all students should get involved in school activities.

Within days, we designed campaign posters with Jeff’s slogan. Then I included pictures of Jeff that showed him involved in activities including soccer, the computer club, and Boy Scouts. No one could walk through any hallway without passing Jeff’s smiling face.

“These posters look great!” I heard a student say.

“Yes,” replied another one. “I bet he would make a good president for student council.”

**What is the main idea of these paragraphs?**

- F** The advertising campaign for Jeff worked well.
- G** The posters with pictures of Jeff had a unique slogan.
- H** The ads for Jeff showed how active he is.

**45** What will Cliff most likely do next year?

- A** join a chess club
- B** manage a campaign
- C** try out for the tennis team

*Go On* ►

**Directions**

This is a rough draft of a student's letter. It contains mistakes.  
Read the letter and answer Numbers 46 through 53.

October 2, 2008

Herman Junior High School  
1441 Joe Herman Way  
Anytown, TN 57804

Dear Principal Monahan

(1) Herman Junior High has many clubs. (2) We have clubs for painting, skateboarding, science, and gardening. (3) However many students including me are still searching for the right club. (4) A group of us would like to start a new school club called the Herman Junior High Book Club.

(5) I have always loved reading. (6) My friends also love reading. (7) So we discuss books every chance we get. (8) We like analyzing characters, and we often debated about why they behave the way they do. (9) We also talk about whether the plot is realistic. (10) For our favorite stories we even think up new endings sometimes.

(11) A few weeks ago, my friends and me were discussing a book.

(12) Someone finally said Wouldn't it be great if we had a school book club?

(13) It occurred to us that other students might enjoy books as much as we do.

(14) We asked other students how they felt about starting a book club.

(15) Twelve people said more enthusiastic that they would like to join.

(16) Thank you for taking the time to read my letter. (17) I hope you'll agree that a book club would be a fun, educational addition to Herman Junior High.

Sincerely,

Kate Vigliotti

**46** Which salutation shows the correct punctuation for this business letter?

- F** Dear Principal Monahan;
- G** Dear Principal Monahan:
- H** Dear Principal Monahan,

**47** Read Sentence 3.

However many students including me are still searching for the right club.

Choose the sentence that uses commas correctly.

- A** However many students, including me are still searching, for the right club.
- B** However, many students including me, are still searching for the right club.
- C** However, many students, including me, are still searching for the right club.

**48** Read Sentences 5, 6, and 7.

I have always loved reading. My friends also love reading. So we discuss books every chance we get.

Choose the best way to combine these sentences.

- F** I have always loved reading, and my friends also love reading, and we discuss books every chance we get.
- G** I love reading as do my friends, and we discuss books every chance we get.
- H** Since my friends and I love reading, we discuss books every chance we get.

*Go On* ►

**49** Read Sentence 8.

We like analyzing characters, and we often debated about why they behave the way they do.

**Choose the correct way to revise the underlined part of this sentence.**

- A** had debated
- B** debate
- C** debating

**50** Read Sentence 10.

For our favorite stories we even think up new endings sometimes.

**Choose the best way to revise this sentence.**

- F** Sometimes we even think up new endings for our favorite stories.
- G** Sometimes for our favorite stories we even think up new endings.
- H** Sometimes we even think up for our favorite stories new endings.

**51** Read Sentence 11.

A few weeks ago, my friends and me were discussing a book.

**Choose the correct way to revise the underlined words.**

- A** my friends and myself
- B** my friends and I
- C** me and my friends

**52** Read Sentence 12.

Someone finally said “Wouldn’t it be great if we had a school book club?”

Choose the best revision of the sentence.

- F** Someone finally said, “Wouldn’t it be great if we had a school book club?”
- G** Someone finally said “Wouldn’t it be great if we had a school book club”?
- H** “Someone finally said”, Wouldn’t it be great if we had a school book club?

**53** Read Sentence 15.

Twelve people said more enthusiastic that they would like to join.

Choose the correct way to write the underlined part of the sentence.

- A** most enthusiastic
- B** mostly enthusiastically
- C** most enthusiastically

*Go On* ►

**Directions** Read and answer Numbers 54 through 59.

**54** Look at the picture.



The conflict in this picture best represents

- F** person vs. self.
- G** person vs. person.
- H** person vs. environment.

**55** In a restaurant, the soup offered or served today is called the

- A** soup du jour.
- B** soup déjà vu.
- C** soup bon voyage.



- 56** Thomas has written a report about modern industry in China. Choose the image that would best emphasize his presentation.

**F**



**H**



**G**



- 57** Cameron is working on a project with a group of students from his English class. The group is worried that they will not finish their project on time. Some members of the group begin to panic. What can Cameron do to help his group meet their goal?

- A** ask the teacher to extend the due date for the group
- B** assign each person in the group a specific task
- C** work on the group project independently at home

*Go On* ►

**58** Read this sentence.

After yesterday's unbelievable football game, I was completely exhausted.

Which underlined word in the sentence is spelled incorrectly?

- F** football
- G** compleetely
- H** exhausted

**59** Choose the most focused research topic.

- A** types of soil, rocks, and minerals in the Mexican rain forest
- B** plants and vegetation native to Hawaiian rain forests
- C** diet of the toucan bird in the Costa Rican rain forest

**Directions** Read the passage. Then answer Numbers 60 through 68.

## Mount Everest Then and Now

- 1 Mount Everest is the highest mountain on Earth. It is part of the Himalayan Mountain Range, near the countries of Tibet and Nepal. Climbing to the top of Mount Everest is a supreme challenge.
- 2 Mount Everest is so enormous that it is impossible to climb to the top and descend to the bottom in one day. Climbers must carry tents and supplies with them. Climbers prepare for challenges like blizzards, strong winds, deep ditches, walls of ice, and snow towers that might fall at any moment. The air near the top of Mount Everest is very thin. It does not contain much oxygen. This makes it hard for climbers to breathe, think, and move. For this reason, most climbers use oxygen tanks to help them breathe, just like astronauts do in outer space.
- 3 Despite the dangers, climbers still attempt to climb Mount Everest. Groups of climbers from different countries meet to climb the mountain together. Sherpas<sup>1</sup> show the groups the best routes to take. Ropes and ladders set up by previous climbers help the groups through the most difficult parts. Satellite phones and laptop computers keep members of the groups in touch with each other. Extra-warm clothing and sleeping bags are necessary to offer climbers protection from the bitter cold.
- 4 Edmund Hillary and Tenzing Norgay became the first men to reach the top of Mount Everest in 1953. They had to travel 170 miles through the mountains just to reach the base of Mount Everest. Today, climbers can take a short plane ride to get to the base of the mountain.
- 5 Hillary began climbing mountains when he was 20. Norgay, a Sherpa, was part of a group of people who have lived in small villages in Nepal for five hundred years. Since the Sherpas have lived in the Himalayas for so long, mountain climbing is an important part of their culture.



**Sir Edmund Hillary, John Hunt  
and Tenzing Norgay**

---

<sup>1</sup>Sherpa: expert mountain guides in Tibet

*Go On* ►

- 6 Hillary and Norgay were part of a team of nine climbers. The government of Nepal had allowed very few groups to try to climb Mount Everest because all of the earlier groups had failed. Hillary’s group was hopeful. Since no climber had ever made it to the top of Everest, there were no routes to follow. Hillary’s group created their own route as they went along.
- 7 Each of the skilled climbers in Hillary’s group wanted to be the first to reach the top of Mount Everest. John Hunt was the group’s leader. All of the men understood that although they each wanted to be the first, they would have to work together for even one of them to be successful. Hunt divided the group into small teams and gave each team an assignment. Some teams had to find a route through the worst areas. Others had the task of cutting a path in the ice and fixing ropes for the climbers to hold. Hunt chose two men, Evans and Bourdillon, to try to reach the summit.
- 8 Evans and Bourdillon were not successful, and they had to turn back. Hillary and Norgay then tried to find their way to the top of Mount Everest, which was still unknown territory. They cut steps into the ice. As the hours passed, they had to constantly decide how much oxygen they had left in their tanks. The men would be in grave danger if their air ran out. When they had nearly reached their goal, they had to climb a 40-foot wall of ice. It looked impossible, but Hillary and Norgay did it. The route is now called the “Hillary Step” in Hillary’s honor.
- 9 Hillary and Norgay earned lasting fame and the world’s admiration. Climbing Mount Everest will always be an incredible accomplishment.

**60** Which question is answered in the passage?

- F** How many people have climbed Mount Everest?
- G** How do people get to the base of Mount Everest?
- H** How long does it take to reach the top of Mount Everest?

**61** Choose the best resource for writing a research paper on the culture of the Sherpas.

- A** a journal entry titled “My Visit to the Himalayas”
- B** a book titled The Himalayas: Land and People
- C** a magazine article titled “Tenzing Norgay, Explorer”

**62** Based on the passage, the reader can infer that Hillary and Norgay calculated their oxygen usage by

- F** watching the time.
- G** recording the altitude.
- H** measuring their route.

**63** Which sentence from the passage is an opinion?

- A** Mount Everest is the highest mountain on Earth.
- B** John Hunt was the group’s leader.
- C** Climbing Mount Everest will always be an incredible accomplishment.

*Go On* ►

**64** Choose the sentence from the passage that supports the idea that John Hunt’s group faced greater difficulties than later climbing groups did.

- F** Mount Everest is so enormous that it is impossible to climb to the top and descend to the bottom in one day.
- G** Ropes and ladders set up by previous climbers help the groups through the most difficult parts.
- H** Hillary and Norgay then tried to find their way to the top of Mount Everest, which was still unknown territory.

**65** Choose the organizational structure used in Paragraphs 6 through 8.

- A** problem-solution
- B** cause-effect
- C** chronological order

**66** Choose the most reliable resource for a reader researching how people train to climb Mount Everest.

- F** a newspaper article titled “Mount Everest, Jewel of the Himalayas”
- G** an interview with a person who has climbed Mount Everest
- H** an Internet site titled “Mount Everest: A Virtual Tour from the Top”

**67** Complete the analogy based on the passage.

Musician is to band as climber is to \_\_\_\_\_.

- A** team
- B** guide
- C** route

**68** Look at the following list.

- - Tents
  - Warm clothing
  - Oxygen tanks
  - Satellite phones

Choose the best title for this list.

- F** Communication Tools for Climbers
- G** Equipment for Staying Comfortable in Extreme Cold
- H** Essential Gear for Modern Climbers

*Go On* ►

**Directions** Read and answer Numbers 69 through 73.

**69** Choose the member of a group who is most responsible for taking notes.

- A** reporter
- B** recorder
- C** timekeeper

**70** Choose the best source to use for researching volcanoes in the Pacific Ocean.

- F** an encyclopedia entry about how volcanoes are formed
- G** an Internet blog featuring photographs of volcanoes
- H** a magazine article featuring uses for volcanic rock



**71** Candace researched information about spider monkeys and wrote the following paragraph. Read her paragraph.

Spider monkeys are not spiders at all. They are primates that live in the rain forests of Central and South America. Scientists are studying the way these animals communicate. Spider monkeys are small, rarely growing larger than two feet tall. Spider monkeys live mostly in the tops of trees. They use their strong hands and tail to grip and move through the branches with ease.

**Choose the sentence that is irrelevant to the paragraph.**

- A** They are primates that live in the rain forests of Central and South America.
- B** Scientists are studying the way these animals communicate.
- C** Spider monkeys are small, rarely growing larger than two feet tall.

**72** Three groups of four students are working on projects. Which group is working together most effectively?

Group 1 Each student has a specific job: leader, recorder, timekeeper, and reader. Each participant is doing the assigned job and discussing problems as they arise.

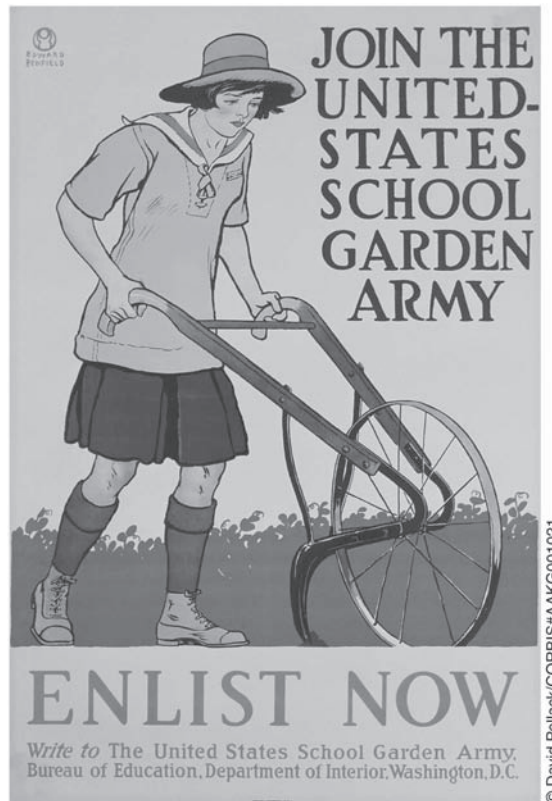
Group 2 One student is coordinating the activities of the group. Two students are taking notes, and another is keeping time.

Group 3 The group leader has assigned tasks to the others and is waiting quietly for the results. One student is presenting ideas, and the other two are challenging the ideas.

- F** Group 1
- G** Group 2
- H** Group 3

*Go On* ►

**73** The poster below was used during World War I.



What is the main purpose of this poster?

- A** to persuade people to plant their own gardens
- B** to give information about how to plant a garden
- C** to entertain people interested in gardens

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# Mathematics



## Part 1

- 1** What is the value of this expression?

$$8.1 \cdot \frac{4}{9}$$

- A**  $3\frac{3}{5}$   
**B**  $4\frac{9}{10}$   
**C**  $8\frac{2}{45}$

- 2** The final scores in 7 games for a basketball team are shown below.

50, 60, 61, 62, 83, 84, 90

What is the lower quartile for this set of data?

- F** 40  
**G** 50  
**H** 60

*Go On* ►

**3** What is the value of  $3n^2$ , when  $n = \frac{5}{3}$ ?

**A**  $8\frac{1}{3}$

**B** 10

**C**  $12\frac{1}{2}$

**4** What value of  $k$  makes this equation true?

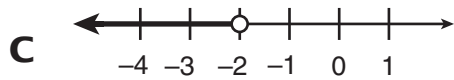
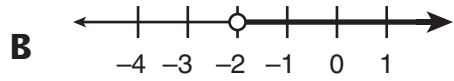
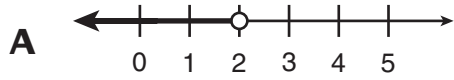
$$\frac{4}{7}k = 14$$

**F** 8

**G**  $13\frac{3}{7}$

**H**  $24\frac{1}{2}$

**5** Which graph best represents the solution to the inequality  $4 - a > 6$ ?



**6** What value of  $x$  makes this inequality true?

$$x \geq 1.6$$

**F**  $\frac{8}{5}$

**G**  $\frac{11}{10}$

**H**  $\frac{25}{20}$

*Go On* ►

- 7** The ages, in years, of six teachers at a school are shown below.

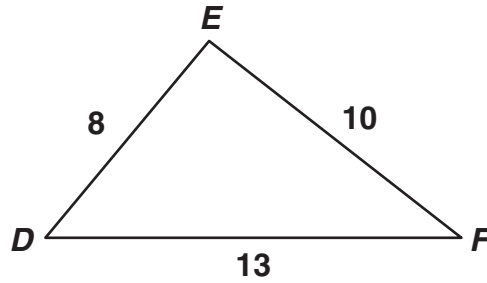
40, 53, 42, 40, 33, 50

What is the mean age of these six teachers?

- A** 40 years
  - B** 41 years
  - C** 43 years
- 
- 8** The temperature in Chicago was  $-3^{\circ}\text{F}$  in the morning. By noon, the temperature had decreased  $2^{\circ}\text{F}$ . What was the temperature in Chicago at noon?
- F**  $-5^{\circ}\text{F}$
  - G**  $-1^{\circ}\text{F}$
  - H**  $5^{\circ}\text{F}$



- 9** The picture shows the side lengths of Triangle  $DEF$ .



Which could be the side lengths of a triangle similar to Triangle  $DEF$ ?

- A** 48, 70, 91
- B** 48, 50, 53
- C** 48, 60, 78

- 10** Candace attended 30% of the basketball games in a season. What is the ratio of the number of games Candace attended to the number of games she did not attend?

- F** 3:10
- G** 3:7
- H** 3:4

*Go On* ►

**11** What is the value of  $8.5p + 10$  when  $p = 5$ ?

**A** 18.55

**B** 43.5

**C** 52.5

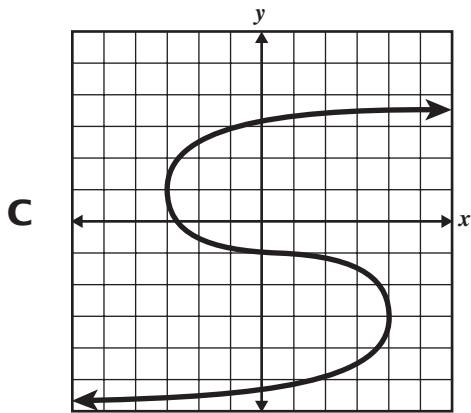
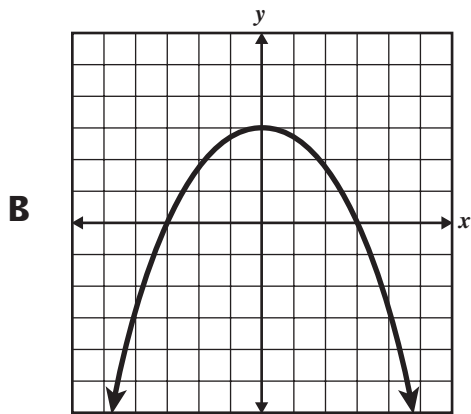
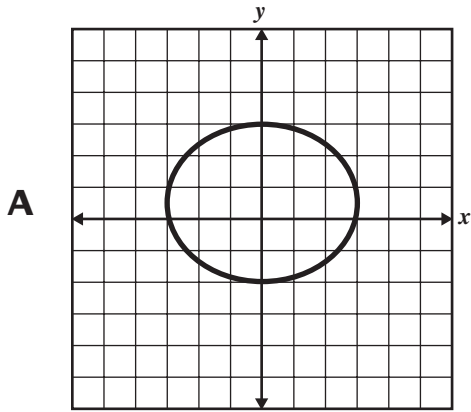
**12** A brand of pasta costs \$2.80 for 14 ounces. At this rate, what is the price for 28 ounces of this brand of pasta?

**F** \$0.20

**G** \$3.92

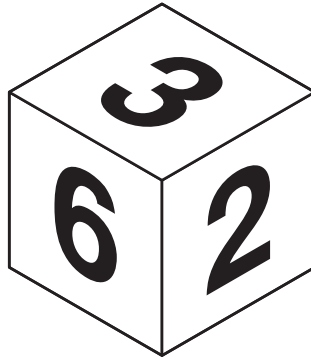
**H** \$5.60

**13** Which of these graphs represents  $y$  as a function of  $x$ ?



*Go On* ►

- 14** Raheem will roll a number cube during a game. The number cube is labeled 1 through 6.



What is the probability that Raheem will roll a 2 on his first try?

- F**  $\frac{1}{12}$
- G**  $\frac{1}{6}$
- H**  $\frac{1}{2}$

**15** Which table shows a directly proportional relationship?

**A**

$x$	$y$
1	$\frac{1}{10}$
3	$\frac{3}{10}$
5	$\frac{5}{10}$

**B**

$x$	$y$
1	$\frac{11}{10}$
3	$\frac{31}{10}$
5	$\frac{51}{10}$

**C**

$x$	$y$
1	1
3	$\frac{1}{9}$
5	$\frac{1}{25}$

*Go On* ►

**16** Ms. Anderson took 7 hours to travel 420 miles on a trip. Which trip represents the same rate of travel?

- F** a 390-mile trip in 6 hours
- G** a 510-mile trip in 8.5 hours
- H** a 630-mile trip in 12.6 hours

**17** Dashawna has a box shaped like a cube. The volume is 64 cubic centimeters. What is the length of each edge of this box?

$$\text{Volume (cube)} = \text{edge} \times \text{edge} \times \text{edge}$$

- A** 4 centimeters
- B** 8 centimeters
- C** 10 centimeters

- 18** The line graph below shows the number of miles Alan ran during each of 5 weeks while training for a marathon.



Based on the graph, which conclusion is true about Alan's weekly results?

- F** During Week 5, he ran about 4 times the number of miles he ran during Week 1.
- G** During Week 3, he ran about 2 times the number of miles he ran during Week 1.
- H** During Week 1, he ran about 3 times the number of miles he ran during Week 2.

*Go On* ►

- 19** The table below shows the number of boys and girls in Mr. Howard's class.

**Mr. Howard's Class**

Boys	Girls
6	8

Each student in his class wrote his or her name on a card. If Mr. Howard randomly selects a card, what is the probability the card will have a boy's name on it?

- A**  $\frac{1}{6}$
- B**  $\frac{3}{7}$
- C**  $\frac{3}{4}$

- 20** Raiden has a cube. The edge length of the cube is 2 inches.

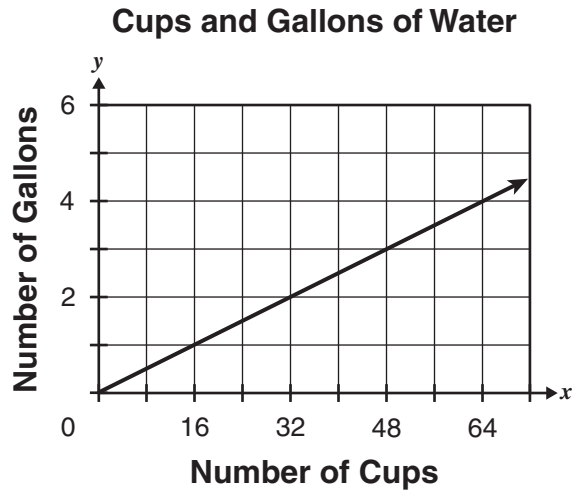
$$\text{Surface area (cube)} = 6 \times \text{edge} \times \text{edge}$$

What is the surface area of Raiden's cube?

- F** 24 square inches
- G** 12 square inches
- H** 8 square inches



- 21** This graph shows the relationship between different amounts of water measured in both cups and gallons.



Based on the graph, which rate best describes the slope of this line?

- A** 2 gallons per 16 cups of water
- B** 1 cup per 16 gallons of water
- C** 1 gallon per 16 cups of water

*Go On* ►

- 22** Each month, Sekayi withdraws the same amount of money from his savings. The table below shows his balance at the end of several months.

**Sekayi's Savings**

<b>Month</b>	<b>Balance</b>
1	\$965
2	\$930
4	\$860
6	\$790

If the pattern continues, what will Sekayi's balance be at the end of Month 8?

- F** \$755
- G** \$720
- H** \$650

- 23** The scale drawing below shows the distance, in centimeters (cm), between Denver and Atlanta.



Scale: 1 cm = 300 miles

According to the scale, what is the actual distance between Denver and Atlanta?

- A** 75 miles
- B** 900 miles
- C** 1,200 miles

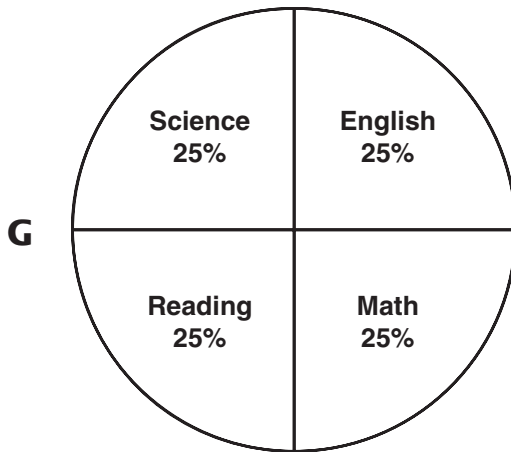
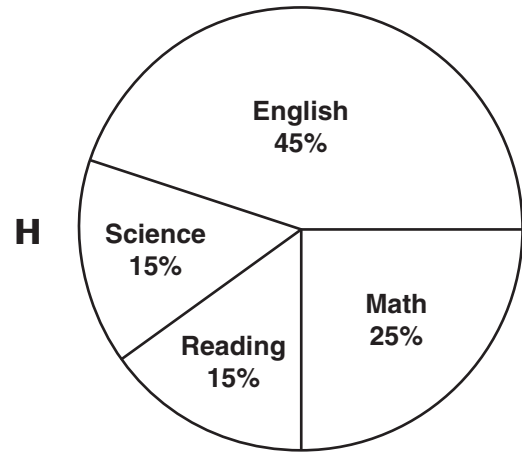
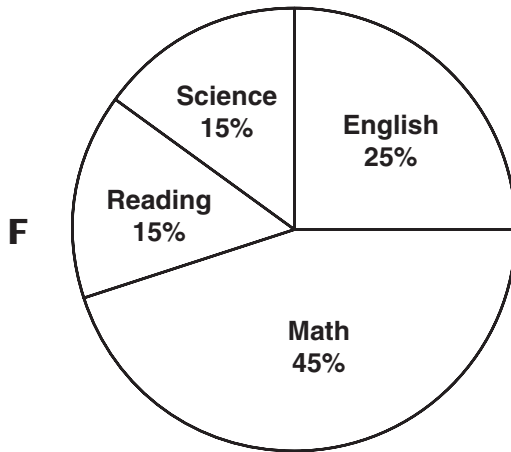
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- 24** The table below shows the number of minutes Derrick spent studying 4 subjects.

**Derrick's Study Time**

Subject	Time (minutes)
English	25
Math	45
Reading	15
Science	15

Which graph best represents the data in the table?



**25** Which table represents a directly proportional relationship?

**A**

$x$	$y$
3	3
6	5
9	7

**B**

$x$	$y$
3	2
6	4
9	6

**C**

$x$	$y$
3	6
6	3
9	2

**26** Which value of  $n$  makes this inequality true?

$$\frac{3}{10} < n < \frac{2}{5}$$

**F** 0.25

**G** 0.30

**H** 0.35

*Go On* ►

- 27** Ryan paid \$60 for a taxi ride. The cost was based on a fee of \$10 plus \$2 per mile traveled. The equation below can be used to find  $n$ , the number of miles traveled during this taxi ride.

$$60 = 10 + 2n$$

What is  $n$ , the number of miles Ryan traveled during this taxi ride?

- A** 5 miles
- B** 25 miles
- C** 35 miles
- 
- 28** Mark used 2 carrots and 4 potatoes to make 8 servings of a soup recipe. How many carrots are needed to make 24 servings of this soup recipe?
- F** 6
- G** 12
- H** 16

- 29** A group of sales representatives sold 650 cars in 10 days. Based on this information, which equation could be used to predict how many cars these sales representatives will sell in 25 days?

**A**  $\frac{10}{650} = \frac{x}{25}$

**B**  $\frac{650}{10} = \frac{x}{25}$

**C**  $\frac{x}{650} = \frac{10}{25}$

- 30** The table below shows values of  $x$  and  $y$ .

$x$	$y$
-10	-18
10	2
20	12

Which equation describes the relationship between the values of  $x$  and  $y$ ?

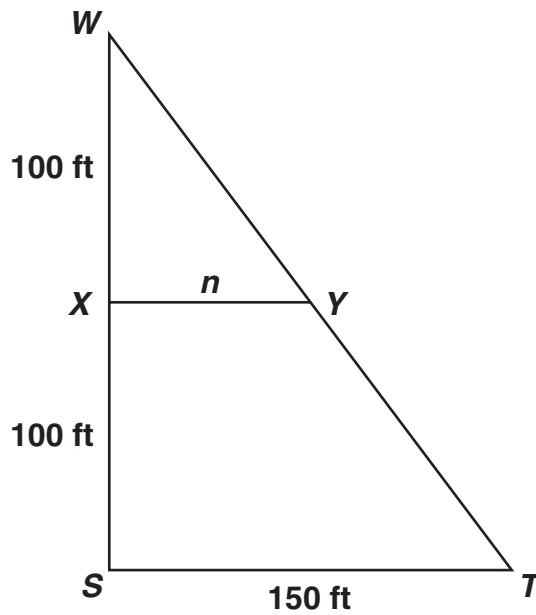
**F**  $y = x \div 5$

**G**  $y = x + 10$

**H**  $y = x - 8$

*Go On* ►

- 31** The diagram below represents a triangular section of a park. Triangle  $WST$  is similar to Triangle  $WXY$ .



What is  $n$ , the length of  $\overline{XY}$ ?

- A** 50 feet
- B** 75 feet
- C** 125 feet

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## Part 2

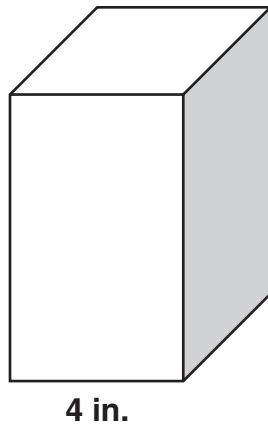
**32** Which number is closest to  $\sqrt[3]{25}$  on a number line?

**F** 8

**G** 5

**H** 3

**33** Bob has a figure with a width of 4 inches, as shown below.



$$\text{Volume} = \text{length} \times \text{width} \times \text{height}$$

Norma has a similar figure that has a width of 12 inches. Which statement is true about the volume of Norma's figure compared to the volume of Bob's figure?

**A** The volume of Norma's figure is 3 times the volume of Bob's figure.

**B** The volume of Norma's figure is 9 times the volume of Bob's figure.

**C** The volume of Norma's figure is 27 times the volume of Bob's figure.

**34** All of the students in a class play either soccer or basketball. The ratio of these students who play soccer to students who play basketball is 4:1. What percent of these students play basketball?

**F** 20%

**G** 25%

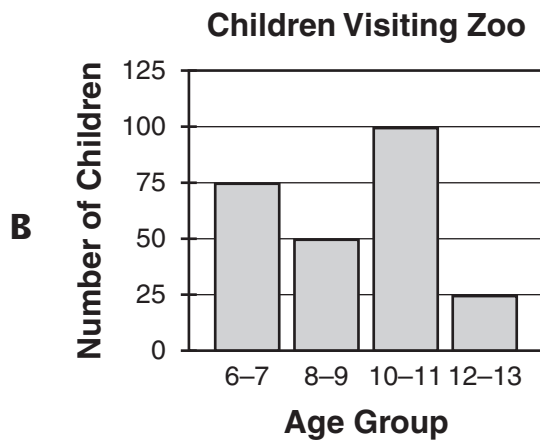
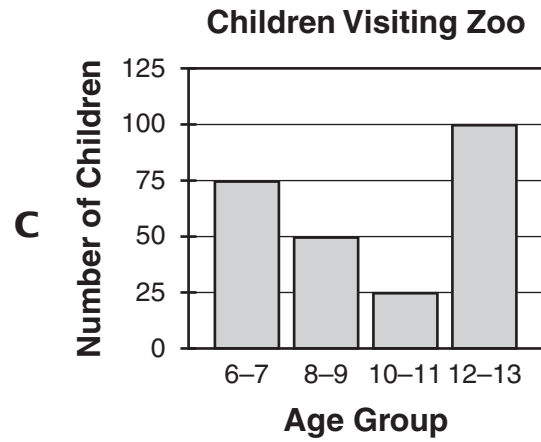
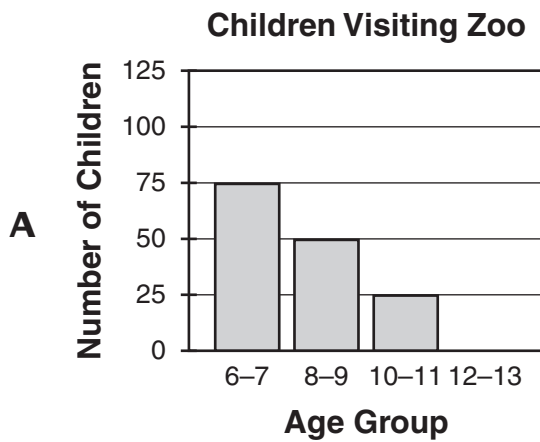
**H** 75%

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**35** Which graph best represents the information given in the table?

**Children Visiting Zoo**

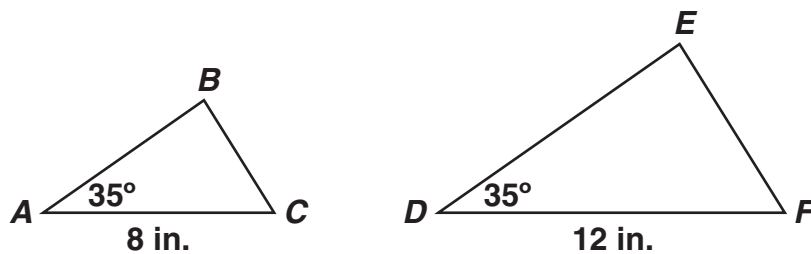
Age Group (years)	Number of Children
6–7	75
8–9	50
10–11	25
12–13	100



- 36** A salt solution was made by mixing 4 pounds of salt with 10 gallons of water. At this rate, how many pounds of salt are required for 40 gallons of water?

- F** 8 pounds
- G** 16 pounds
- H** 34 pounds

- 37** Maylin needs additional measurements to decide if Triangle  $ABC$  is similar to Triangle  $DEF$ .



Which of these measurements will assist Maylin in making her decision?

- A** the lengths of  $\overline{AB}$  and  $\overline{DF}$
- B** the lengths of  $\overline{BC}$  and  $\overline{EF}$
- C** the lengths of  $\overline{AB}$  and  $\overline{DE}$

*Go On* ►

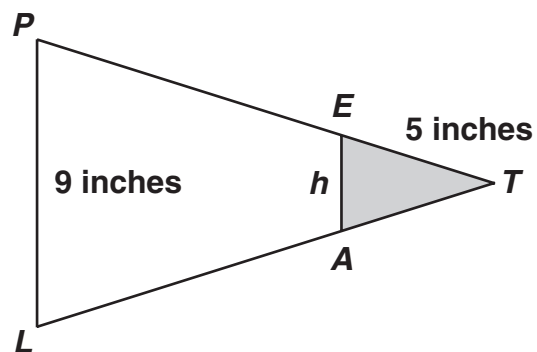
**38** Rebecca's goal is to save \$700. She has already saved \$200 and will save \$20 per week. Which equation could be used to find  $w$ , the number of weeks Rebecca needs to save to reach her goal?

**F**  $700 = 20w - 200$

**G**  $700 = -20w + 200$

**H**  $700 = 20w + 200$

**39** This model shows the measurements of a triangular flag. In this model, Triangle  $PTL$  is similar to Triangle  $ETA$ .



The length of  $\overline{PT}$  is 15 inches. What is the value of  $h$ ?

**A** 3 inches

**B** 4 inches

**C** 6 inches

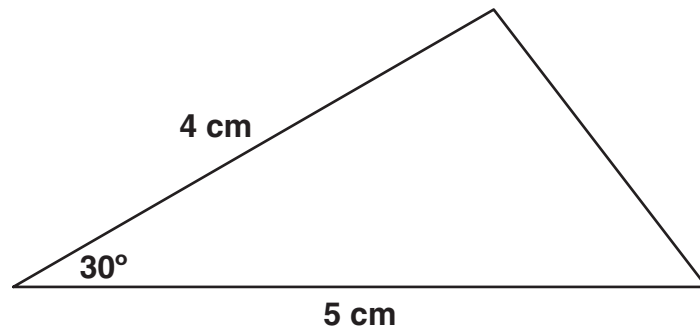
- 40** Lauren paid \$36 for her cell phone service in May. She pays \$30 per month plus \$0.40 for each minute she goes over her minute usage. The equation below can be used to find  $x$ , the number of minutes she went over her minute usage in May.

$$0.40x + 30 = 36$$

How many minutes,  $x$ , did Lauren go over her minute usage?

- F** 6
- G** 15
- H** 26

- 41** Tom drew a triangle and labeled two of its side lengths and the included angle, as shown.

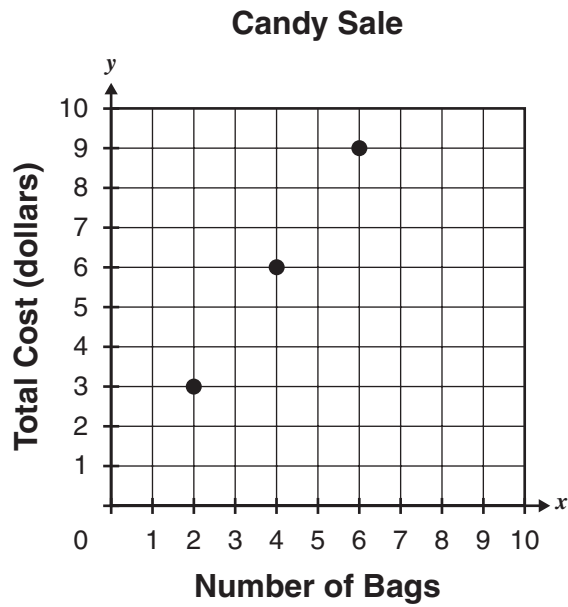


Which measurements describe two side lengths and the included angle of a triangle similar to Tom's triangle?

- A** 10 cm, 11 cm, and  $30^\circ$
- B** 12 cm, 15 cm, and  $90^\circ$
- C** 16 cm, 20 cm, and  $30^\circ$

*Go On* ►

- 42** This graph shows the relationship between the number of bags of candy sold at a candy sale and the total cost of these bags.

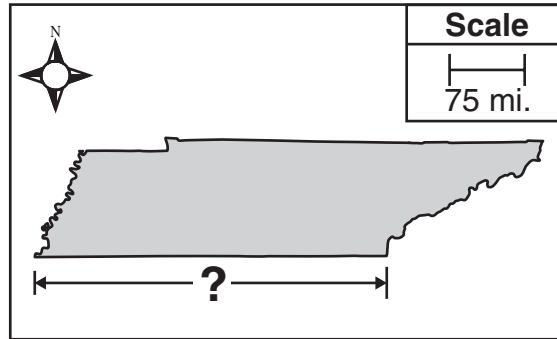


Based on the graph, which amount best represents the total cost of 18 bags of candy?

- F** \$12
- G** \$21
- H** \$27



- 43** The scale drawing below shows the outline of the state of Tennessee.



Which measurement is closest to the actual length of Tennessee's southern border?

- A** 150 miles
- B** 350 miles
- C** 550 miles

- 44** The table below shows several values of a function.

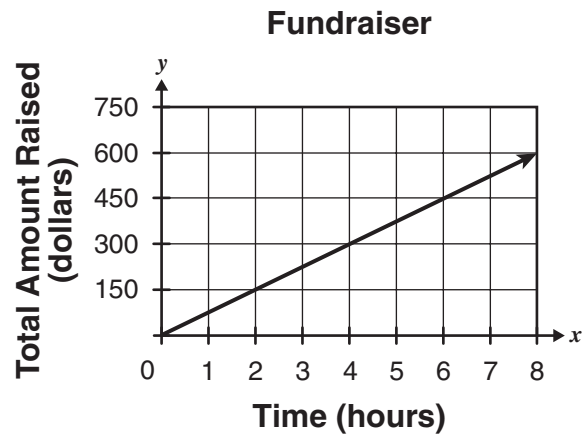
$x$	$f(x)$
4	29
3	21
2	13

Based on the table, which equation represents this function?

- F**  $f(x) = 7x$
- G**  $f(x) = x + 25$
- H**  $f(x) = 8x - 3$

*Go On* ►

- 45** The graph below shows the total amount of money raised at a fundraiser after several hours.



Based on the graph, which rate best describes the amount of money raised per hour?

- A** \$50 per hour
- B** \$75 per hour
- C** \$150 per hour

- 46** Eduardo wrote each letter of a word on a separate card, as shown below.



He will choose one card without looking. What is the probability that this card will have the letter T?

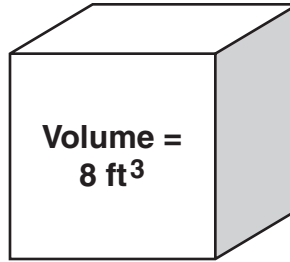
**F**  $\frac{1}{2}$

**G**  $\frac{1}{5}$

**H**  $\frac{1}{10}$

*Go On* ►

- 47** A closet has a height of 6 feet from the floor to the ceiling. Mariana plans to stack identical cube-shaped boxes from the floor to the ceiling of this closet. The volume of each box is 8 cubic feet.

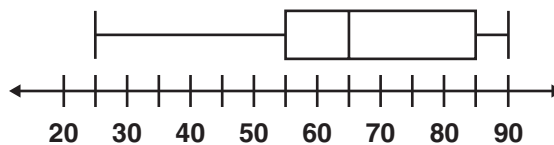


$$\text{Volume (cube)} = \text{edge} \times \text{edge} \times \text{edge}$$

What is the greatest number of these boxes Mariana can stack up to 6 feet in height?

- A** 3 boxes
- B** 4 boxes
- C** 6 boxes

- 48** According to the box-and-whisker plot, which values appear to be closest to the lower and upper quartiles?



- F** 25 and 90
- G** 55 and 85
- H** 65 and 85

**49** Which table shows an inversely proportional relationship?

**A**

$p$	$q$
10	0.5
20	1.0
40	2.0

**B**

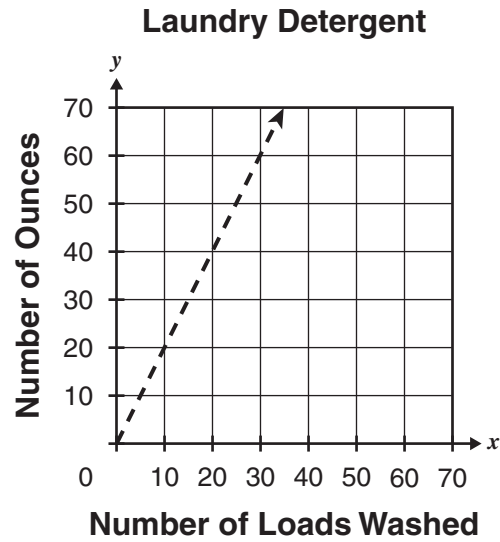
$p$	$q$
2	10.0
4	5.0
8	2.5

**C**

$p$	$q$
1	2.5
2	5.0
4	10.0

*Go On* ►

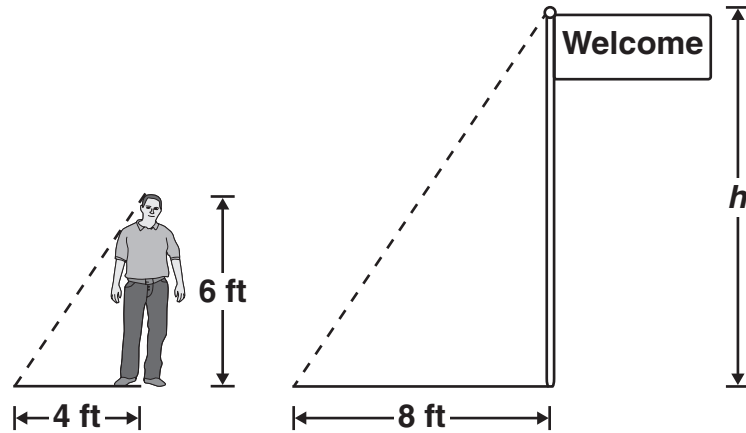
- 50** This graph shows the relationship between the number of ounces of laundry detergent used and the number of loads washed.



Based on the graph, which rate best describes the slope of the line?

- F** 2 ounces of detergent per load washed
- G** 5 ounces of detergent per load washed
- H** 10 ounces of detergent per load washed

- 51** A 6-foot-tall man is standing next to a flagpole. The flagpole casts a shadow that is 8 feet long, and the man casts a shadow that is 4 feet long, as shown below.



What is the value of  $h$ , the height of the flagpole?

- A** 10 feet
- B** 12 feet
- C** 14 feet

*Go On* ►

- 52** This table shows John's height during the first years of his life.

**John's Height**

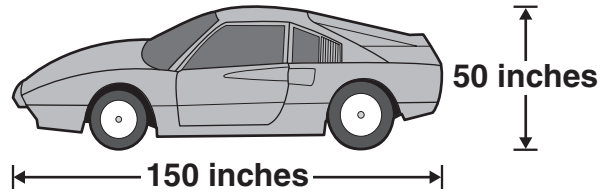
<b>Age (years)</b>	<b>Height (inches)</b>
0	19
1	28
2	35
3	40
4	44
5	47

Which diagram would best represent these data?

- F** line graph
- G** stem-and-leaf plot
- H** box-and-whisker plot



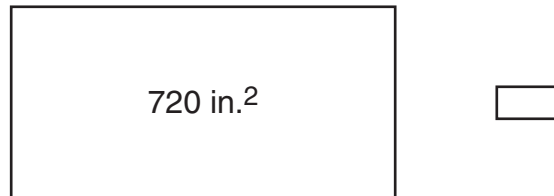
- 53** The actual length and height of a car are shown below.



Amy made a scale drawing of the car. If the height of the car in Amy's drawing is 5 inches, what is the length of the car in her drawing?

- A** 10 inches
- B** 15 inches
- C** 20 inches

- 54** The area of a rectangle is 720 square inches. The dimensions of the rectangle are reduced by a scale factor of  $\frac{1}{6}$  to make a smaller rectangle.



What is the area of the smaller rectangle?

- F** 20 square inches
- G** 60 square inches
- H** 120 square inches

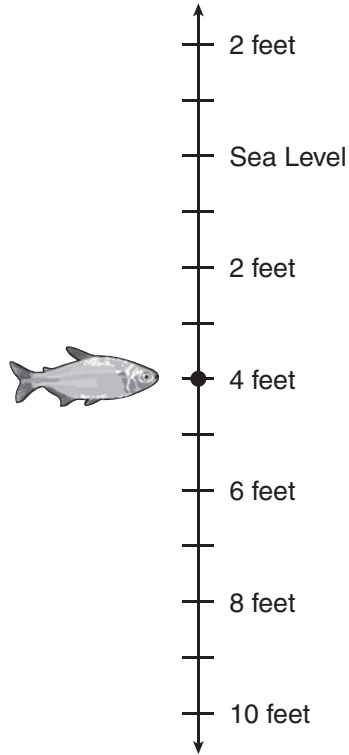
*Go On* ►

**55** Which point best represents the location of  $\sqrt{20}$  on the number line?



- A** Point *W*
- B** Point *X*
- C** Point *Y*

- 56** The diagram below shows the initial location of a fish.



The fish then swam deeper from the initial location at a rate of 2 feet per second. Which integer best describes the location of this fish after 3 seconds?

- F** 10 feet below sea level
- G** 6 feet below sea level
- H** 2 feet below sea level

*Go On* ►

**57** What is the interquartile range of the data listed below?

$$\{60, 50, 61, 72, 74, 70, 62\}$$

- A** 12
- B** 20
- C** 24

**58** Which inequality represents all the solutions for the expression below?

$$-\frac{1}{6}x < \frac{1}{2}$$

- F**  $x > -3$
- G**  $x > -\frac{1}{12}$
- H**  $x < -3$

**59** What value of  $x$  makes this equation true?

$$0.5x = 4.5$$

- A** 4
- B** 5
- C** 9

**60** If  $n = 2\frac{1}{4}$ , what is the value of  $300n$ ?

**F** 275

**G** 675

**H** 750

**61** Simplify:

$$1\frac{1}{2} + 4.5 \div \frac{3}{8}$$

**A**  $2\frac{1}{4}$

**B**  $13\frac{1}{2}$

**C** 16

**STOP** 

**DO NOT  
MARK  
ON THIS  
PAGE**

# Science

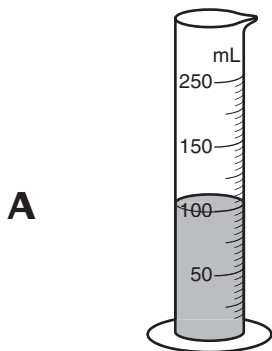


## Part 1

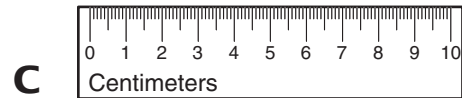
- 1** Students want to compare the volumes of different rock samples, as shown below.



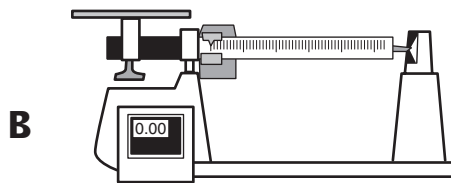
Which tool is best for measuring the volume of each rock?



Graduated Cylinder



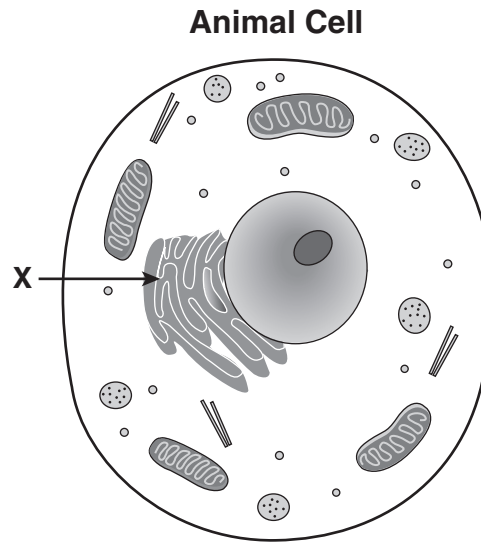
Metric Ruler



Balance

*Go On* ►

**2** An animal cell is shown in the diagram below.



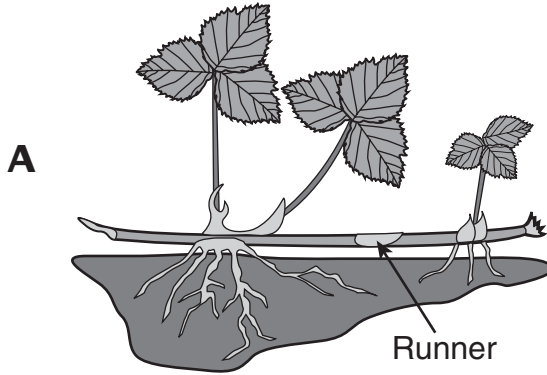
**What organelle is labeled X?**

- F** ribosome
- G** mitochondria
- H** endoplasmic reticulum

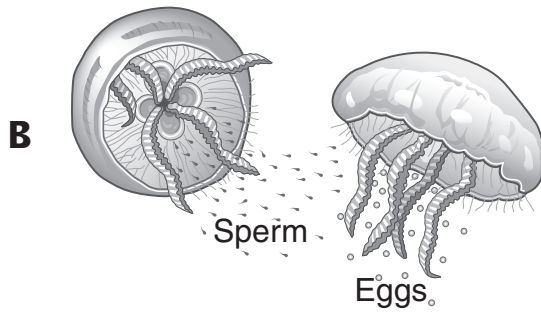


**3** Which diagram is an example of an organism undergoing sexual reproduction?

**Strawberry Plant**



**Jellyfish**

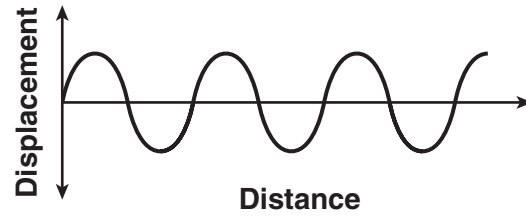


**Bacterium**



*Go On* ►

- 4** A wave is shown in the diagram below.



Which best describes the wave?

- F** The amplitude equals the wavelength.
- G** The amplitude of the crest equals the amplitude of the trough.
- H** The wavelength is the height of the crest plus the height of the trough.

- 5** What causes the sea floor to spread apart?

- A** floods
- B** hurricanes
- C** plates move

- 6** Some processes in the rock cycle are described in the chart below.

**Some Processes in the Rock Cycle**

<b>1</b>	New rock forms from rock that is melted and then cools.
<b>2</b>	New rock forms after rock experiences high temperatures and pressure.
<b>3</b>	New rock forms after pieces of rock weather and then erode and are deposited in layers.

What type of rock is most likely formed by Process 1?

- F** sedimentary
- G** igneous
- H** metamorphic

- 7** Which system protects inner organs from damage by an outside force?

- A** excretory
- B** skeletal
- C** circulatory

*Go On ►*

- 8** The characteristic for having dimples (D) is dominant to the characteristic for not having dimples (d). A Punnett square showing a cross between a dimpled person and non-dimpled person is shown below.

	D	d
d		
d		

What percentage of the offspring from this cross will most likely have dimples?

- F** 25%
- G** 50%
- H** 100%

- 9** The table below describes some types of water pollution and the effect they have on the environment.

**Descriptions of Water Pollution**

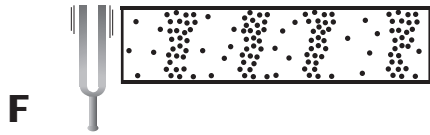
Type	Effect
Raw Sewage	Illnesses can spread to humans
Nitrate	Increases algae growth, then decaying algae use up oxygen in the water
Poison	Stored in the bodies of fish and builds up in organisms that eat fish
Oil	Clings to bird feathers
Heat	Causes water to be less able to contain oxygen; causes bacteria to grow

**Which of these is a result of nitrate and heat pollution?**

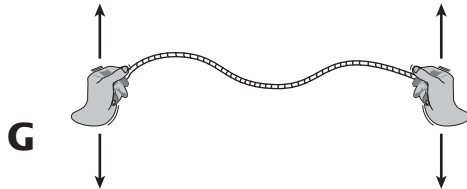
- A** Diseases are spread.
- B** Algae grow rapidly.
- C** Oxygen levels decrease.

*Go On* ►

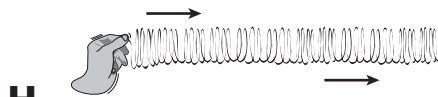
**10** Which diagram shows only a transverse wave?



A tuning fork producing sound



A rope shaking up and down



A coil spring vibrating horizontally

**11** Scientists have discovered that the Atlantic Ocean is increasing in width due to tectonic plates moving apart. About how fast are the plates beneath the Atlantic Ocean moving?

- A** 2 centimeters per year
- B** 2 meters per year
- C** 2 kilometers per year

**12** A screw is an example of a simple machine that would be most useful for

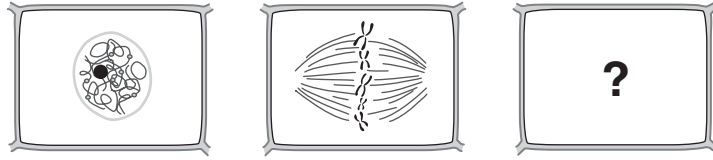
- F** cutting a sandwich.
- G** opening a corked bottle.
- H** lifting a rock.

**13** What cell organelle produces energy in animal cells?

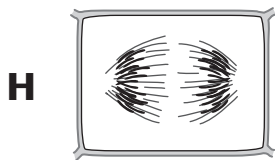
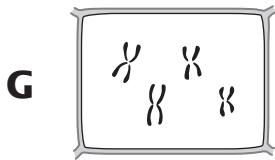
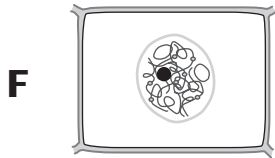
- A** lysosome
- B** ribosome
- C** mitochondria

*Go On* ►

**14** Some stages of plant cell division are shown below.



What is the next stage in this process?



**15** Researchers are developing a new fertilizer that will help plants grow in hot, dry climates. The fertilizer is applied to 100 desert plants in a greenhouse. Which step should the researchers do next?

- A** compare plants that received fertilizer to similar plants that did not receive fertilizer
- B** begin selling the fertilizer to gardeners living in hot, dry climates
- C** test the fertilizer on plants that are adapted to cooler climates



- 16** A student did 75 joules of work by lifting a 25-newton object with a pulley.

$$\text{Distance} = \frac{\text{work}}{\text{force}}$$
$$d = \frac{W}{F}$$

What distance was the object lifted?

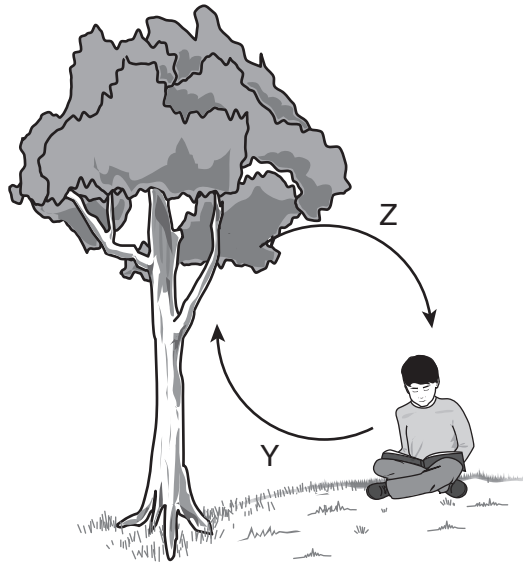
- F** 3 meters
- G** 50 meters
- H** 100 meters

- 17** Which is the best example of an adaptive bioengineered product?

- A** ladybugs that are raised to eat garden pests
- B** sugar cane that is processed to make fuel
- C** mules that result from breeding horses with donkeys

*Go On* ►

- 18** The picture shows some gases being exchanged between plants and animals.



Which gas is most likely represented by the Y?

- F** carbon dioxide ( $\text{CO}_2$ )
- G** hydrogen ( $\text{H}_2$ )
- H** oxygen ( $\text{O}_2$ )

- 19** Which structure of a flower is correctly matched with its main function?

- A** The stamen produces seeds.
- B** The pistil guides pollen to the ovary.
- C** The anther holds the ovule.

- 20** Students observed some properties of an unknown mineral. The mineral was scratched by a fingernail.

**Mineral Hardness Chart**

1	Talc
2	Gypsum
2.5	Fingernail
3	Calcite
3.5	Penny
4	Fluorite

Based on the chart above, which mineral were the students most likely observing?

- F** Gypsum
- G** Calcite
- H** Fluorite

- 21** Which is the best example of Newton's first law of motion?

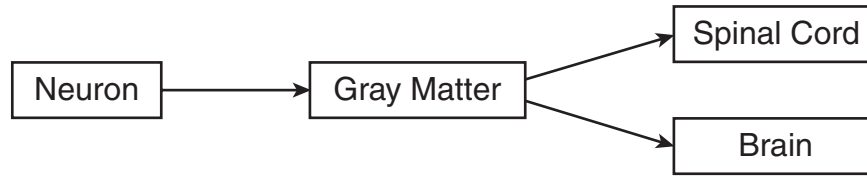
- A** A soccer ball remains motionless until it is kicked by a player.
- B** A basketball thrown in the air falls to the ground.
- C** An ice skater pushes off from a wall and moves backwards.

*Go On ►*

**22** Scientists have discovered a species of lizards that consists of only females. Due to the lack of males, all offspring are identical to the parent and are produced by

- F** sexual reproduction.
- G** asexual reproduction.
- H** crossing-over.

**23** The chart shows structures that work together in an organism.



These structures work together to make up which of these?

- A** a tissue
- B** an organ
- C** an organ system

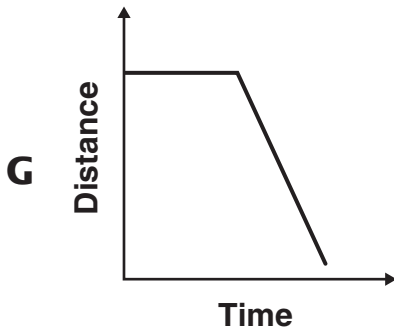
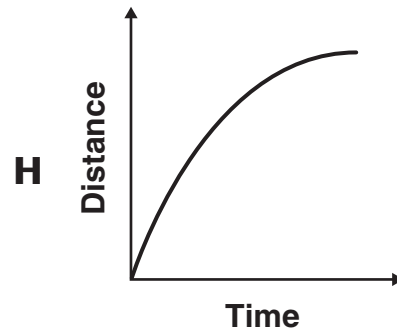
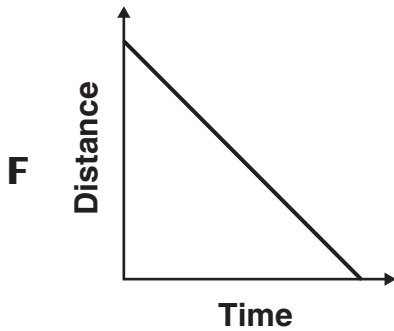
*Go On* ►

- 24** A student took a field trip on a bus. The student recorded the distance traveled by the bus every 10 minutes for one hour. The student's data are shown below.

**Field Trip Time vs. Distance**

<b>Time (minutes)</b>	<b>Distance from School (kilometers)</b>
0	0
10	8
20	28
30	50
40	74
50	80
60	85

Which line best represents the data?



**25** Use the equation to solve the problem.

$$\begin{array}{l} \text{Distance} = \text{rate} \times \text{time} \\ d = r \times t \end{array}$$

A cheetah can run at a rate of 30 meters per second. What is the greatest distance a cheetah could travel in 60 seconds?

- A** 2 meters
- B** 90 meters
- C** 1,800 meters

**26** Doctors are developing a type of wireless system to monitor a patient's blood pressure in the hospital. This system will let a nurse measure the patient's blood pressure without waking up the patient. Which is the intended benefit of this technology?

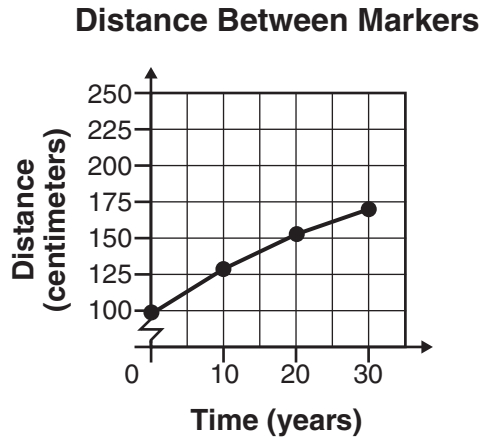
- F** Patients will not have to be disturbed.
- G** Patients can take fewer medications.
- H** Patients can experience less pain.

**27** The inner core of Earth is best described as being made of

- A** solid iron and nickel.
- B** silicon and oxygen.
- C** liquid iron and sulfur.

*Go On* ►

- 28** Scientists measured the rate of movement of tectonic plates by placing markers on either side of a plate boundary. The graph below displays the results.



Which data set was most likely used to create this graph?

**Distance Between Markers**

**F**

Time (years)	Distance (centimeters)
1	100
2	130
3	185
4	170

**Distance Between Markers**

**H**

Time (years)	Distance (centimeters)
0	100
10	130
20	155
30	170

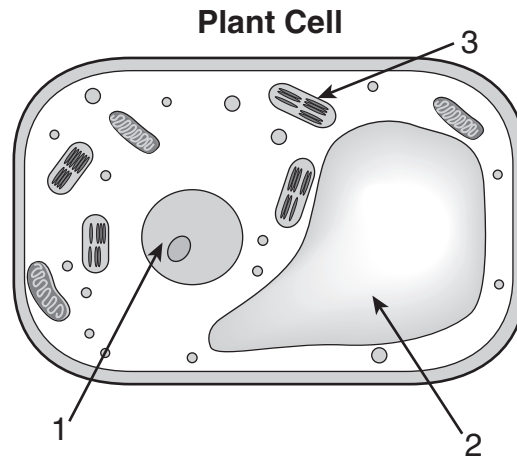
**Distance Between Markers**

**G**

Time (years)	Distance (centimeters)
100	0
130	10
155	20
170	30



**29** A plant cell is shown in the diagram below.



Which organelle takes in energy from sunlight?

- A** 1
- B** 2
- C** 3

*Go On* ►

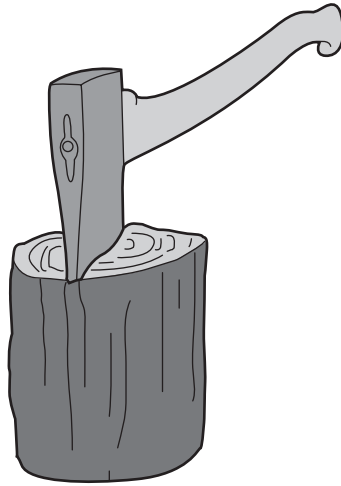
- 30** In guinea pigs, black fur (B) is dominant to white fur (b). A cross between a black-furred and a white-furred guinea pig is shown in the Punnett square below.

	<b>B</b>	<b>b</b>
<b>b</b>		
<b>b</b>		

What can be determined from this Punnett square?

- F** There is a 50% chance that one of the offspring will have black fur.
- G** There is a 75% chance that all of the offspring will have black fur.
- H** There is a 100% chance that this cross will result in four offspring.

**31** A logger splits a piece of wood.



What simple machine splits the wood?

- A** wedge
- B** pulley
- C** lever

**STOP** 

## Part 2

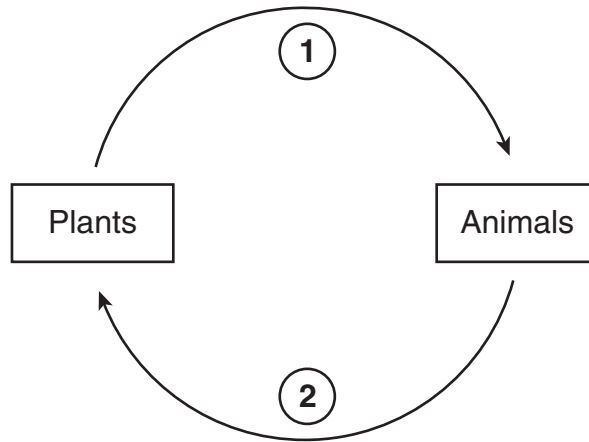
**32** Which processes can change a metamorphic rock into an igneous rock?

- F** weathering and erosion
- G** melting and cooling
- H** heating and pressure

**33** Which is a function of the reproductive system?

- A** to produce gametes
- B** to exchange gases
- C** to eliminate wastes

- 34** The diagram shows some of the gases exchanged between plants and animals as they obtain energy.



Which substances best complete the diagram?

- F** 1 – carbon dioxide, 2 – water vapor
- G** 1 – hydrogen, 2 – nitrogen
- H** 1 – oxygen, 2 – carbon dioxide

*Go On* ►

**35** During respiration, what substances combine to release energy for the cell?

- A** glucose and oxygen
- B** glucose and water
- C** water and oxygen

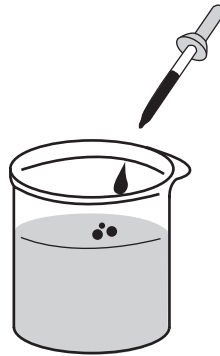
**36** Which statement best explains the difference between longitudinal and transverse waves?

- F** Particles in longitudinal waves travel in the direction of the wave, while particles in transverse waves travel perpendicular to the waves.
- G** Particles in longitudinal waves travel toward a force, while particles in transverse waves travel away from a force.
- H** Longitudinal waves produce energy, while transverse waves consume energy.

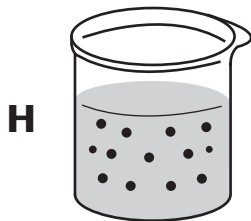
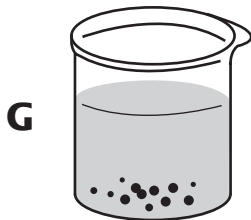
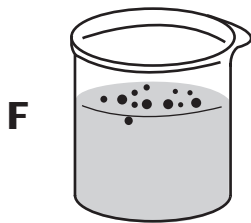
**37** Which is the most likely location of an earthquake?

- A** in the middle of a continent
- B** along two plate boundaries
- C** in the middle of an ocean

- 38** A student adds drops of dye to a beaker of room temperature water, as shown in the diagram below.

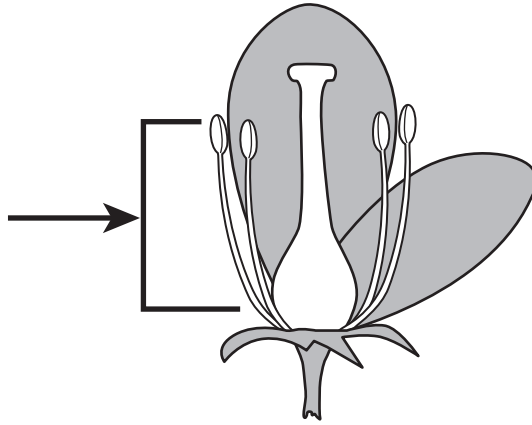


Which diagram best shows the end result of diffusion?



*Go On* ►

**39** A flower is shown in the diagram.



What is the main function of the flower part indicated by the arrow?

- A** attracting pollinators
- B** producing pollen
- C** supporting the pistil

**40** Which part of Earth is a thin layer made mostly of rock?

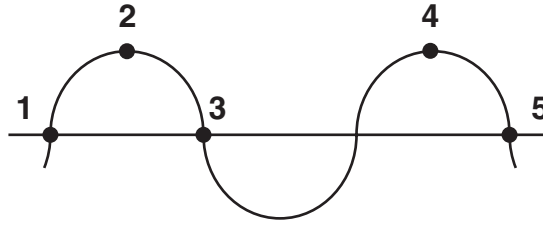
- F** crust
- G** mantle
- H** core

**41** Which statement best explains why humans should limit their use of fossil fuels?

- A** Fossil fuels can be quickly renewed.
- B** Fossil fuels form naturally in the earth.
- C** Fossil fuels release pollution.



- 42** A wave is marked with five points as shown.



The distance between which two points is the wavelength?

- F** 1 and 3
- G** 2 and 4
- H** 1 and 5

- 43** A gardener lifts a rock with a lever using 50 newtons of force to move the rock 2 meters.

Work = force $\times$ distance $w = F \times d$
--

How much work is done by the gardener?

- A** 25 newton-meters
- B** 52 newton-meters
- C** 100 newton-meters

*Go On* ►

**44** A scientist investigates the effect of carbon dioxide on plant height. The scientist grows plants in several closed containers. All the plants receive the same amount of water and light, but each container has a different amount of carbon dioxide in it. What is the independent variable in this experiment?

- F** the amount of carbon dioxide in each container
- G** the amount of water provided to the plants
- H** the height of each plant after a period of time

**45** Which cell parts are found in pairs and observed during cell division?

- A** centrioles
- B** vacuoles
- C** ribosomes

**46** In some dog breeds, wire hair is dominant to smooth hair. Two parents with wire hair produce an offspring with smooth hair. To express smooth hair, the offspring would need to have inherited

- F** the same chromosomes from each parent.
- G** an allele for smooth hair from each parent.
- H** two of the same type of chromosomes from one of its parents.

**47** Some processes in the rock cycle are listed below.

**Rock Cycle Process**

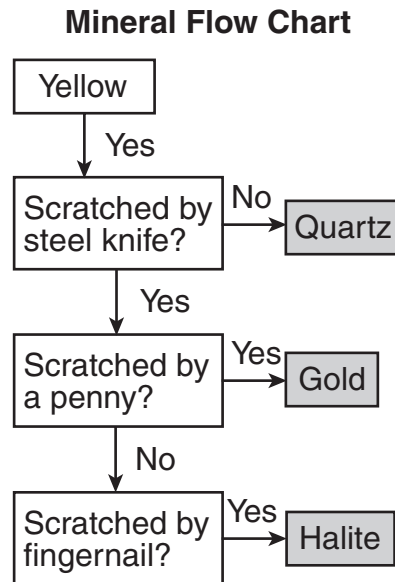
Process	Description
X	Rocks change by heat and pressure.
Y	Rocks melt and cool.
Z	Rocks weather and erode.

Which type of rock is most likely formed by Process Z?

- A** metamorphic
- B** igneous
- C** sedimentary

*Go On ►*

- 48** A student wanted to identify a mineral based on the flow chart below. The student could scratch a yellow mineral with a steel knife and a penny, but not with a fingernail.



Based on this flow chart, which mineral was the student most likely observing?

- F** Quartz
- G** Gold
- H** Halite

- 49** A bus traveled at a speed of 100 kilometers per hour for 5 hours.

$$\text{Distance} = \text{speed} \times \text{time}$$
$$d = s \times t$$

What total distance did the bus travel?

- A** 20 kilometers
- B** 95 kilometers
- C** 500 kilometers

- 50** A meteorologist recorded high temperatures for five days at two locations on land. The data are shown in the table below.

**High Temperatures**

<b>Date</b>	<b>Temperature at the Beach (°C)</b>	<b>Temperature 50 km West of Beach (°C)</b>
June 1	29.4	36.1
June 2	27.2	27.2
June 3	27.7	28.8
June 4	27.7	26.6
June 5	26.6	25.0

Which is the best conclusion based on these data?

- F** Areas at the beach have the coolest temperatures.
- G** Areas farther from the beach have the warmest temperatures.
- H** Areas at the beach have the most stable temperatures.

*Go On* ►

- 51** In watermelons, a solid green color (G) is dominant to green stripes (g). Two solid green watermelons are crossed as shown in the Punnett square below.

	<b>G</b>	<b>g</b>
<b>G</b>		
<b>g</b>		

Which type of watermelon has the greatest chance of being produced by this cross?

- A** homozygous solid (GG)
  - B** heterozygous solid (Gg)
  - C** homozygous striped (gg)
- 52** Which systems work together to carry oxygen to cells?
- F** digestive and excretory
  - G** skeletal and muscular
  - H** circulatory and respiratory

**53** As the wheels of a train push down on a track, the track pushes back against the wheels. Which of Newton's laws is used to explain these forces?

- A** An object at rest tends to stay at rest unless acted upon by an unbalanced force.
- B** The net force on an object is equal to its mass times its acceleration.
- C** For every action, there is an equal and opposite reaction.

**54** Which chemical compounds are the reactants of photosynthesis?

- F** carbon dioxide ( $\text{CO}_2$ ) and water ( $\text{H}_2\text{O}$ )
- G** glucose ( $\text{C}_6\text{H}_{12}\text{O}_6$ ) and oxygen ( $\text{O}_2$ )
- H** oxygen ( $\text{O}_2$ ) and carbon dioxide ( $\text{CO}_2$ )

*Go On* ►

- 55** Students experimented to find out whether plants grew better indoors than outdoors. The students used the same type of plant in each set. One set was grown indoors and the other was grown outdoors. They recorded their data in the table below.

**Indoor vs. Outdoor Plant Growth**

	Indoor Plants Height (cm)		Outdoor Plants Height (cm)	
	Plant 1	Plant 2	Plant 3	Plant 4
Week 1	18.0	16.6	15.0	16.2
Week 4	26.3	23.6	19.1	20.6

The students concluded that indoor plants received better light than the outdoor plants. Which is the most likely reason this conclusion may be flawed?

- A** The students failed to predict the results of the experiment.
- B** There were many variables acting on the outdoor plants.
- C** The indoor plants were healthier than the outdoor plants at the start of the experiment.



- 56** Which example could only be considered an outcome of sexual reproduction?
- F** when all the offspring have exactly the same genes
  - G** when the offspring express genes from only one parent
  - H** when the offspring have genes from a combination of two parents

- 57** Scientists want to design a new system of instruments to test ocean temperatures and predict weather. Which should the scientists do before they make the instrument system?

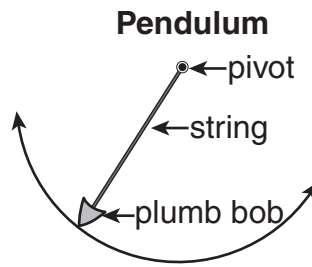
- A** build a prototype
- B** evaluate the results
- C** improve the design

- 58** Which statement accurately describes the process that forms a type of rock?

- F** Igneous rock forms when rocks are squeezed at low temperatures.
- G** Metamorphic rock forms when rocks melt and then cool.
- H** Sedimentary rock forms when small pieces of rock are cemented together.

*Go On ►*

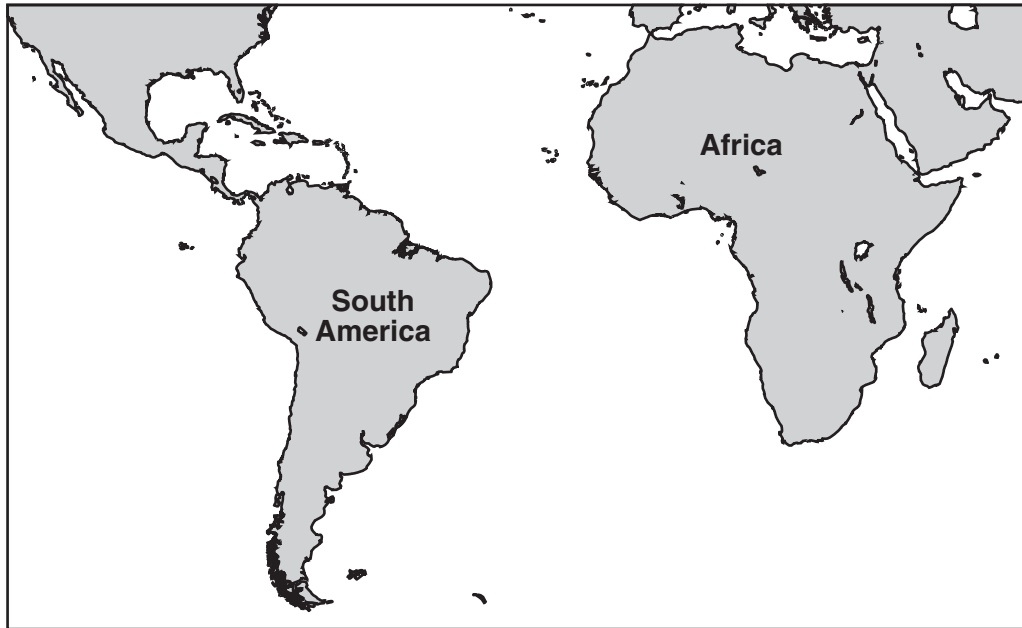
- 59** Students are investigating factors that affect the rate at which a pendulum swings.



Which set of variables will best help the students in this investigation?

- A** using different string lengths and different plumb bob masses
- B** using equal string lengths and different plumb bob masses
- C** using different string lengths and different plumb bob shapes

- 60** Scientists theorize that millions of years ago, South America and Africa were one landmass.



Which statement best explains why South America and Africa are now separate landmasses?

- F** Plates slowly move the continents apart at a rate of centimeters per year.
- G** Ocean currents carry some landmasses east and some landmasses west.
- H** Strong winds push the landmasses away from each other.

- 61** Which system is most responsible for moving a swimmer's body through water?

- A** excretory
- B** muscular
- C** reproductive

**STOP** 

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# Social Studies



## Part 1

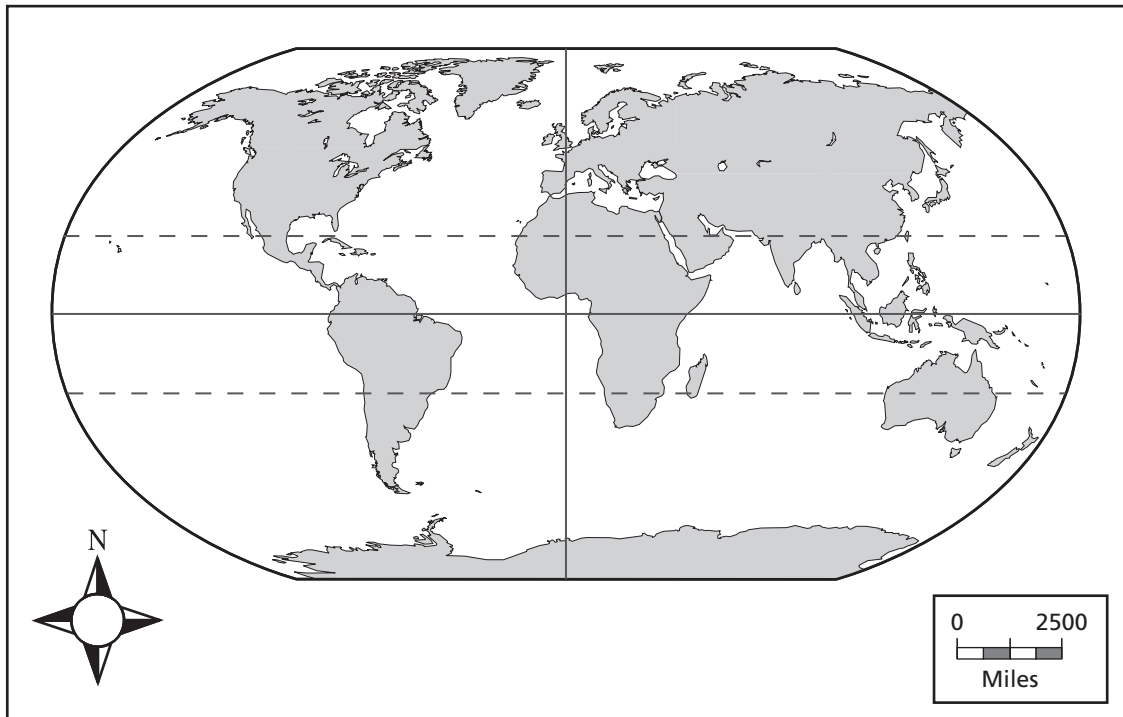
- 1** Which activity causes water pollution?
- A** riding a bike to work
  - B** fertilizing land for farming
  - C** building a home with wood
- 2** A government in which all citizens can participate is known as
- F** a monarchy.
  - G** an oligarchy.
  - H** a democracy.
- 3** Compared to someone living in a large city, a person growing up on a small, rural farm is more likely to have
- A** plowed fields with a tractor.
  - B** had an apartment in a skyscraper.
  - C** taken a subway to school.

*Go On* ►

**4** Which rivers begin in the Appalachian Mountains and empty into the Ohio River?

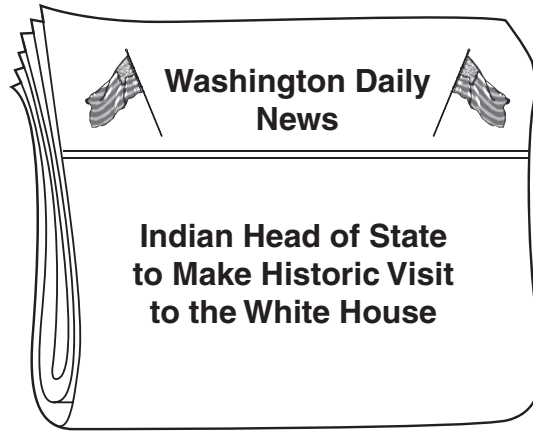
- F** Tennessee and Cumberland rivers
- G** Missouri and Mississippi rivers
- H** Wolf and Sequatchie rivers

**Directions** Use the map below to do Number 5.



**5** The northernmost line of latitude shown on the map is called the

- A** Equator.
- B** Tropic of Cancer.
- C** Tropic of Capricorn.



**6** Based on the headline above, which official from India will meet the president of the United States?

- F** crown prince
- G** prime minister
- H** general secretary

*Go On* ►

## Nashville Metropolitan Area

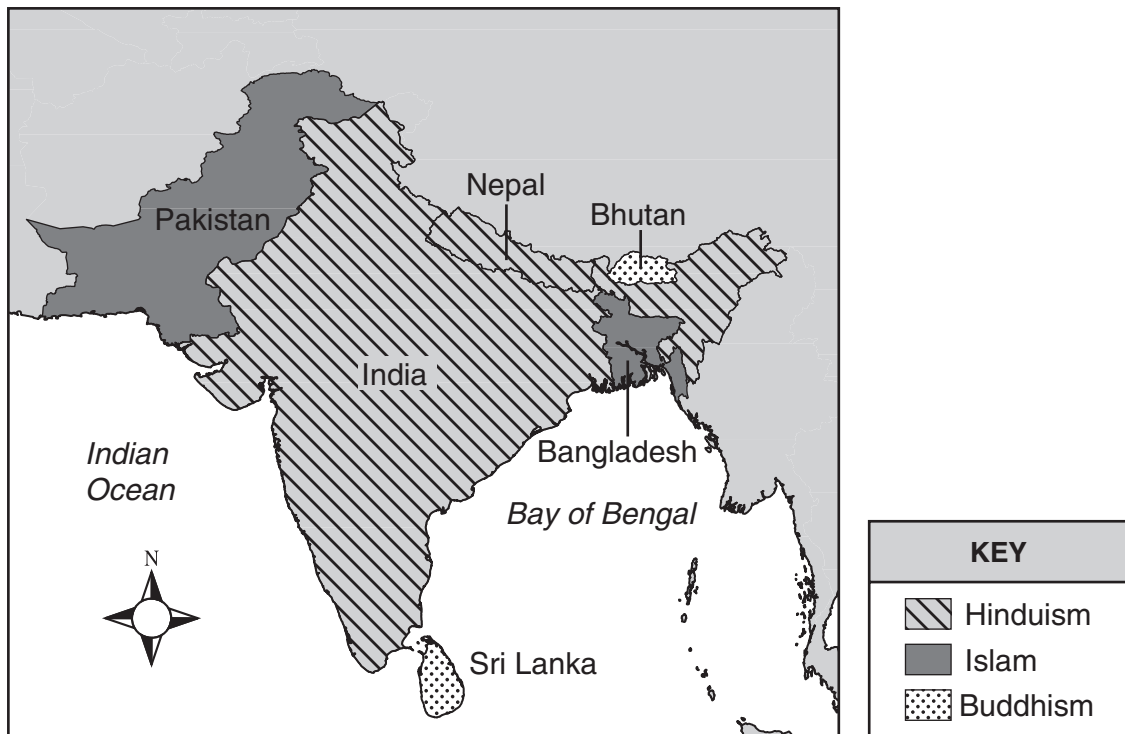


**7** Which community is closest to a major highway?

- A** Rosebank
- B** Green Hills
- C** Avondale



## The Major Religion of Six Countries



**8** What is the major religion in India?

- F** Hinduism
- G** Islam
- H** Buddhism

**9** Which term describes the average number of people in a square mile?

- A** population density
- B** family size
- C** growth rate

*Go On* ►

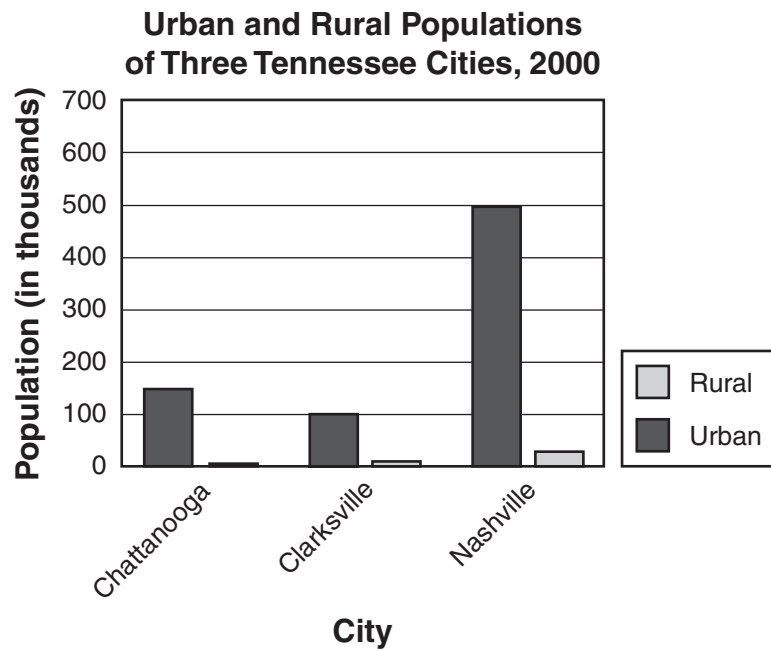
### South American Literacy Rates



Key		
80 – 89%	90 – 94%	95 – 100%

**10** Which country in the map above has the lowest literacy rate?

- F** Venezuela
- G** Brazil
- H** Argentina



**11** Which city on the graph above had the most people living in a rural environment?

- A** Chattanooga
- B** Clarksville
- C** Nashville

*Go On* ►

**Directions** Use the quotation below to do Number 12.

It is our job to ensure that globalization provides benefits, not just for some, but for all;  
— Kofi Annan, speaking at a summit meeting of the United Nations, 2000

**12** Which of these global issues is most directly addressed by the quotation above?

- F** economic development
- G** agricultural regulations
- H** national defense

.....

**13** Inflation can be defined as a continued rise in

- A** consumer prices.
- B** daily temperatures.
- C** ocean levels.

**Directions**

Use the map below to do Number 14.



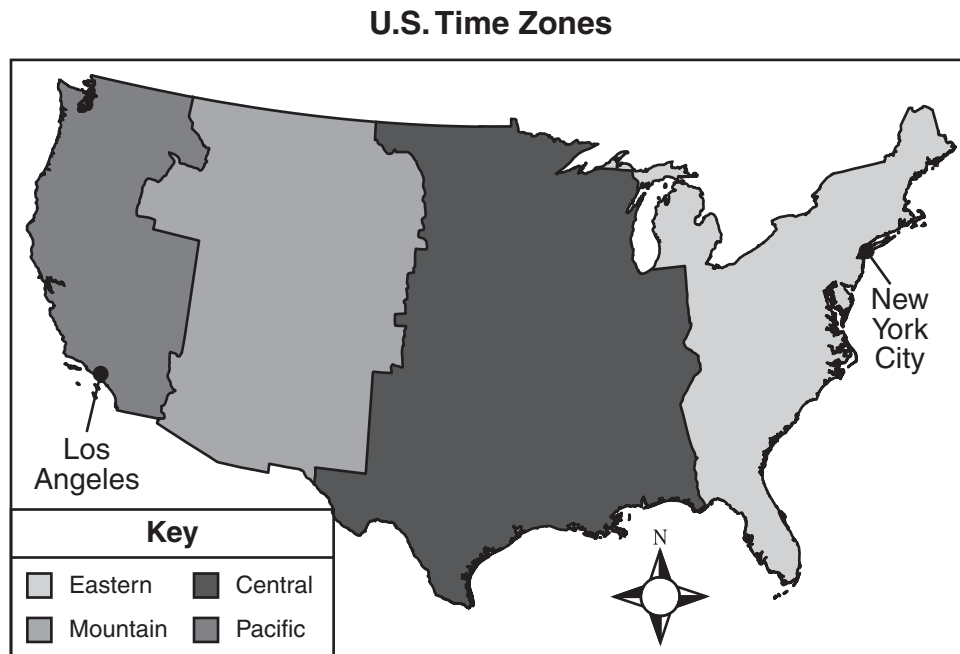
**14** If a person in Nairobi traveled by airplane to Madrid, in which direction did she travel?

- F** northwest
- G** southeast
- H** southwest

*Go On* ►

**15** Which of these environmental consequences is the most direct result of the process of clear-cutting?

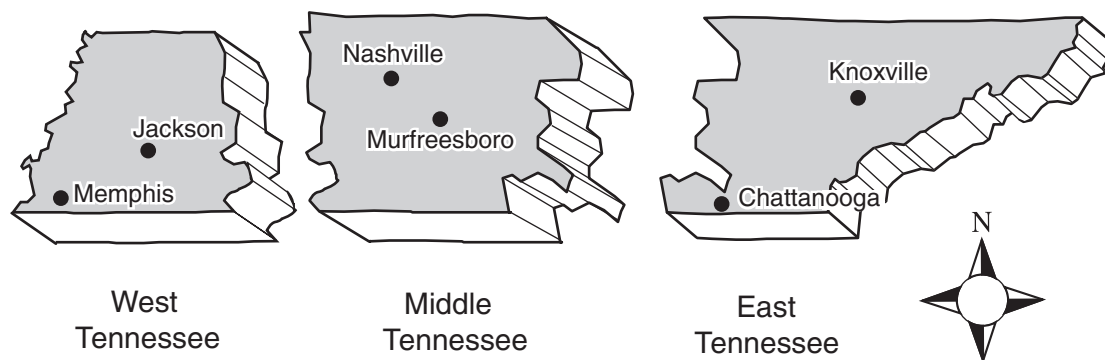
- A** air pollution
- B** global warming
- C** deforestation



**16** According to the map above, if it is 7:00 A.M. in New York City, what time is it in Los Angeles?

- F** 3:00 A.M.
- G** 4:00 A.M.
- H** 10:00 A.M.

### The Three Grand Divisions of Tennessee



**17** Which of these industries is largest in Middle Tennessee?

- A** raising livestock
- B** harvesting nuts
- C** mining coal

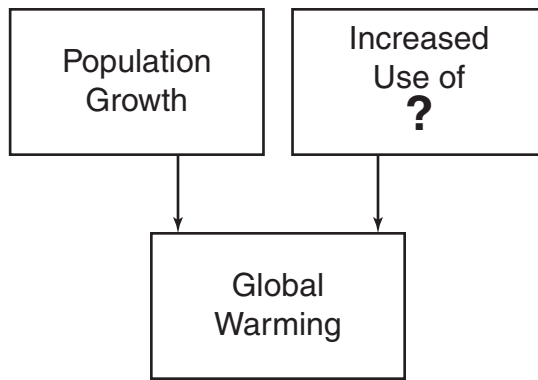
**18** A dictatorship is a government in which

- F** one person has unlimited power.
- G** a small group of people run the country.
- H** representatives are elected by the citizens.

**19** Which statement explains why oil is a nonrenewable resource?

- A** Oil has been found in many places.
- B** Oil is used faster than it is replaced.
- C** Oil is a source of pollution.

*Go On* ►



**20** Which phrase best completes the diagram above?

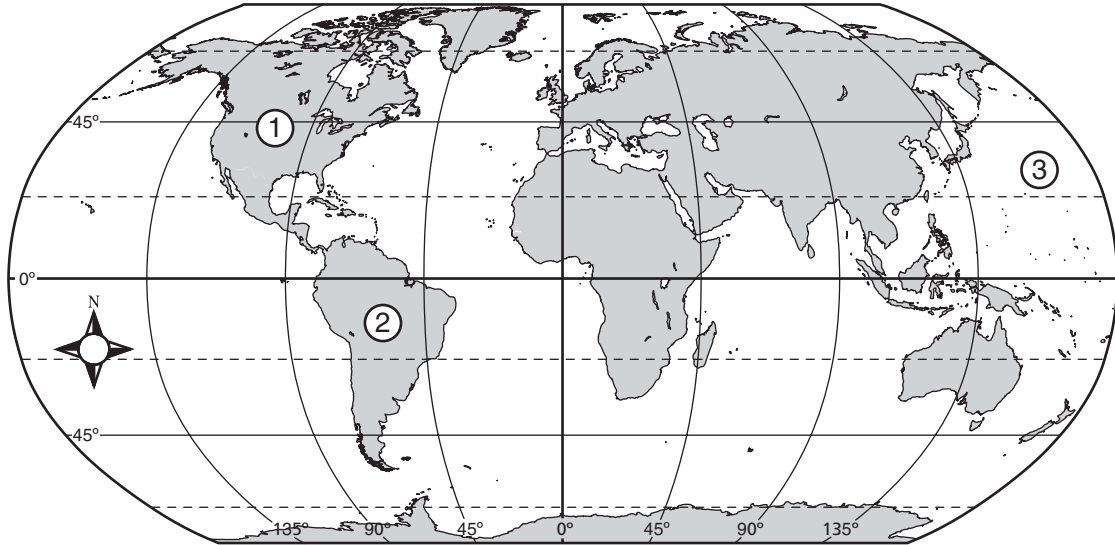
- F** Solar Energy
- G** Fossil Fuel
- H** Wind Technology

**21** Which phrase below defines urbanization?

- A** the sharing of economic wealth
- B** the shifting of the planet's crust
- C** the movement of people to cities



**Directions** Use the map below to do Numbers 22 through 24.



**22** Which of these geographic features is nearest Number 2?

- F** the Grand Canyon
- G** the Amazon River
- H** the Rocky Mountains

**23** Which ocean is indicated by Number 3?

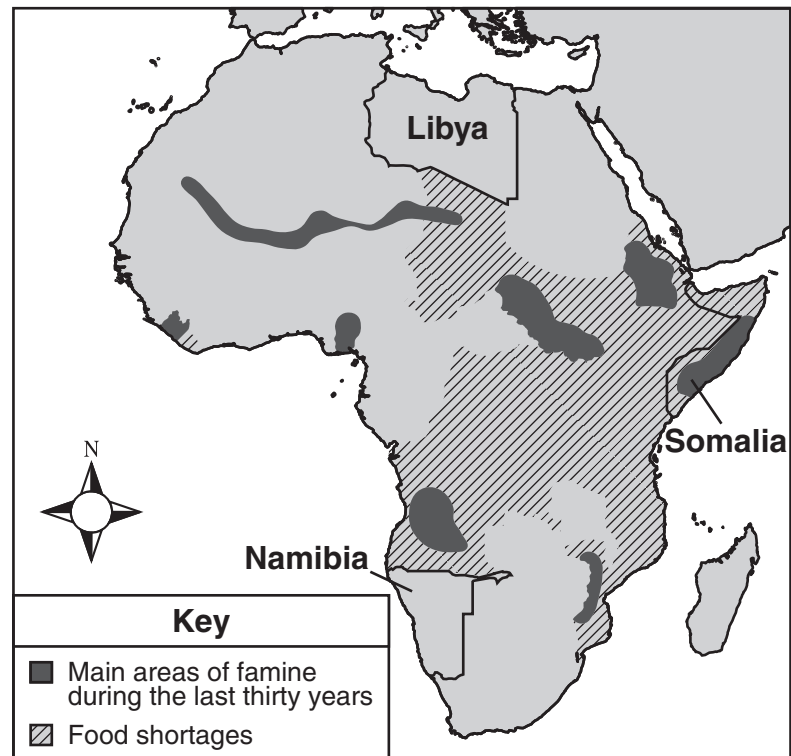
- A** Atlantic
- B** Indian
- C** Pacific

*Go On* ►

**24** Which of these statements describes the landmass labeled Number 1?

- F** It is located in the Northern Hemisphere.
- G** The Prime Meridian runs through it.
- H** The Equator runs through it.

### African Food Shortages, 1990s



Source: *Human Development Report*, UNDP, 1996

**25** Based on the map above, which country most likely experienced a population decline in the 1990s as a result of migration to escape food shortages?

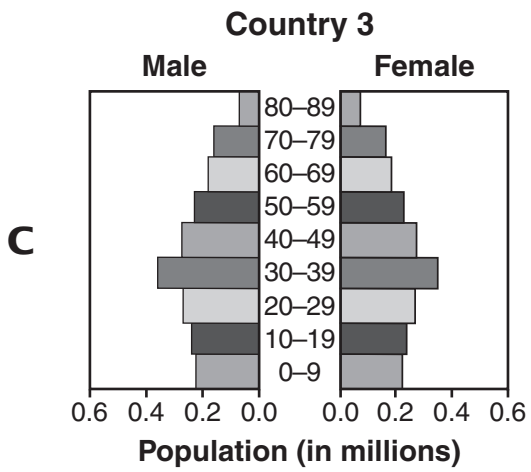
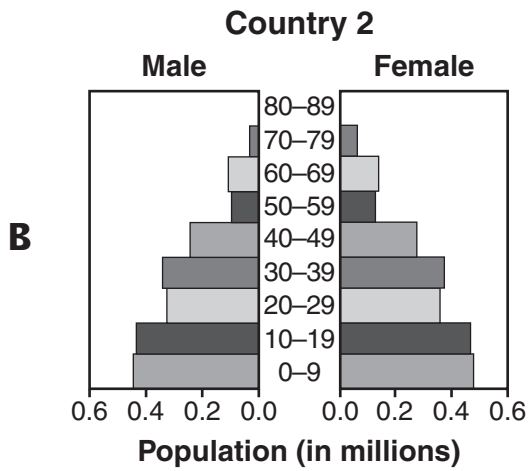
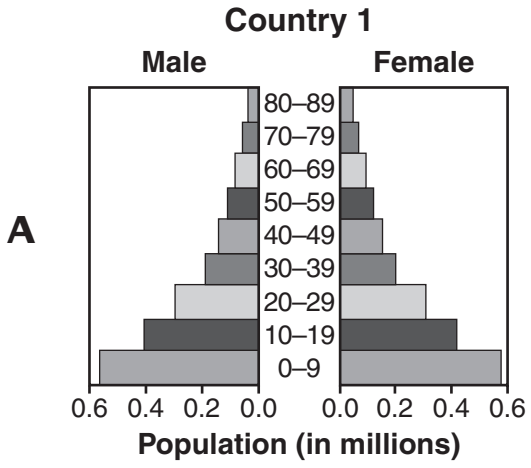
- A Libya
- B Namibia
- C Somalia

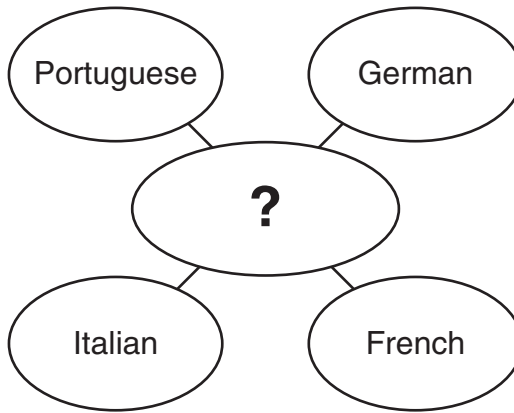
**26** Which of these activities supports the right to worship freely?

- F using tax money to build churches
- G respecting the religious beliefs of others
- H requiring religious education in schools

*Go On* ►

**27** Which population pyramid shows the most people over the age of 60?





**28** Which of these best completes the diagram above?

- F** languages
- G** continents
- H** religions

This region of Tennessee is part of a large fertile area of land that stretches along the Mississippi River.

**29** Which region is described by the passage above?

- A** Central Basin
- B** Gulf Coastal Plain
- C** Cumberland Plateau

*Go On* ►

**30** Population growth in American cities during the 20th century was most influenced by

- F** the mild climate.
- G** job opportunities.
- H** unsettled land.

**31** Which religion believes that its founder was the last prophet sent by Allah?

- A** Islam
- B** Judaism
- C** Buddhism

**STOP** 

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## Part 2

**32** Which ocean separates South America from Africa?

- F** Arctic Ocean
- G** Pacific Ocean
- H** Atlantic Ocean

A city increases in population by 20 percent during a 10-year period.



**33** The information above is an example of which concept?

- A** growth rate
- B** mortality rate
- C** population distribution

**34** Which of these resources is produced mainly in East Tennessee?

- F** copper
- G** beef
- H** wheat



H	Hospital
P	Park
	State highway
	County road

**35** Which part of a map is shown above?

- A** key
- B** scale
- C** index



**36** What is the approximate distance from Ankara to Istanbul?

- F** 100 miles
- G** 200 miles
- H** 300 miles

*Go On* ►

### South American Time Zones



**37** According to the map above, what is the time difference between Lima and Rio de Janeiro?

- A** 1 hour
- B** 2 hours
- C** 4 hours

North Korea, one of the world's most centrally directed and least open economies, faces chronic economic problems. . . . Large-scale military spending [takes away] resources needed for investment and [the population]. Firm political control remains the Communist government's [main] concern.

— CIA World Factbook

**38** According to the passage above, people in North Korea must live with many

- F** job opportunities.
- G** political restrictions.
- H** educational choices.

**39** One consequence of rapid population growth is the

- A** increased demand for renewable resources.
- B** improvement of air quality.
- C** reduced demand for fossil fuels.

**40** Which of these is most associated with an economic depression?

- F** increased consumer spending
- G** higher prices for manufactured goods
- H** increased business failures

*Go On ►*

**41** The followers of Buddhism believe in the concept of

- A** Mohammad as Allah's final prophet.
- B** the Four Noble Truths.
- C** the teachings of Jesus Christ.

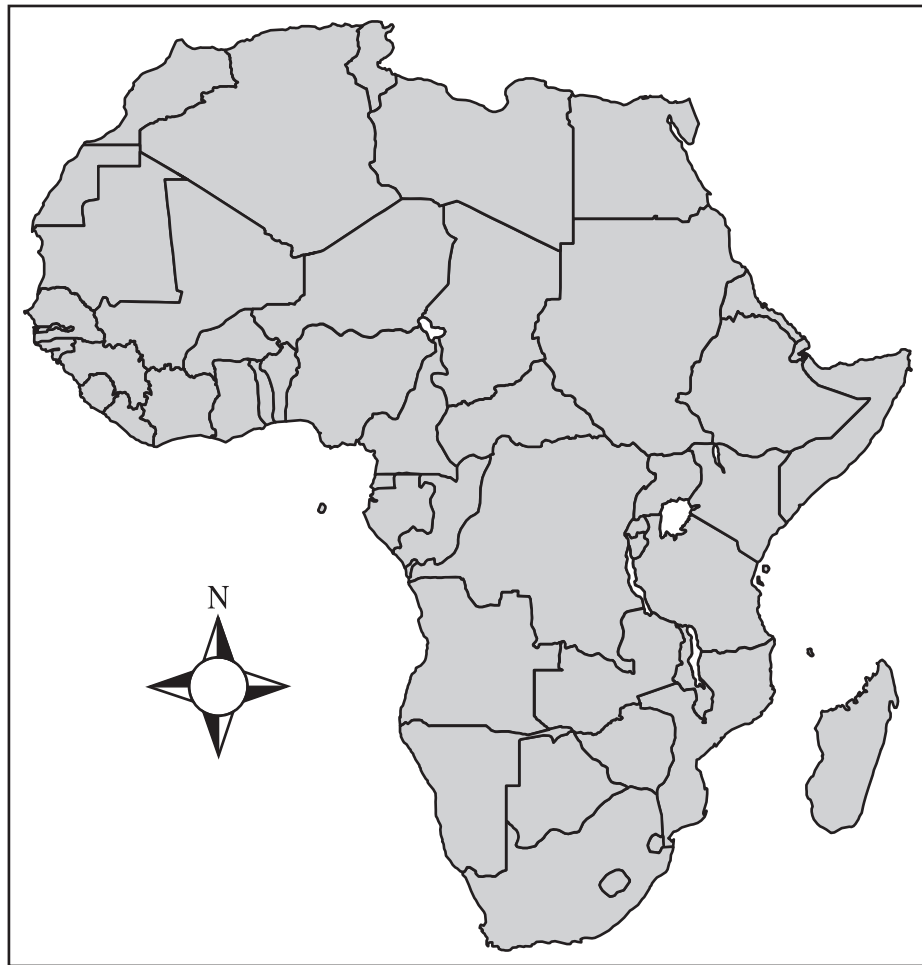
**42** A government ruled by a few people is

- F** a democracy.
- G** an oligarchy.
- H** an autocracy.

**43** A major river of Middle Tennessee is the

- A** Mississippi River.
- B** Cumberland River.
- C** Holston River.

## Africa



**44** Which type of map is shown above?

- F** topographical
- G** physical
- H** political

*Go On* ►

The most alarming of all man's [attacks] . . . is the [poisoning] of our earth, rivers and seas with dangerous and even [killer] materials. The pollution . . . for the most part [cannot be undone].

— Rachel Carson, *Silent Spring*, 1962

**45** The passage above describes the effects of

- A** pesticide use.
- B** population growth.
- C** suburban sprawl.

**Directions** Use the table below to do Number 46.

**United States Exports and Imports, 1996 – 2002**  
(in millions of dollars)

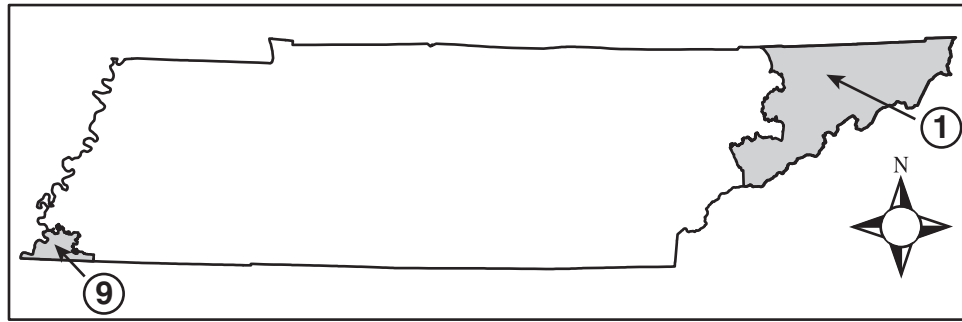
<b>Year</b>	<b>Exports</b>	<b>Imports</b>
1996	850,877	953,746
1999	957,146	1,219,383
2002	974,107	1,392,145

Source: United States Census Bureau,  
Foreign Trade Division

**46** The information shown in the table illustrates the

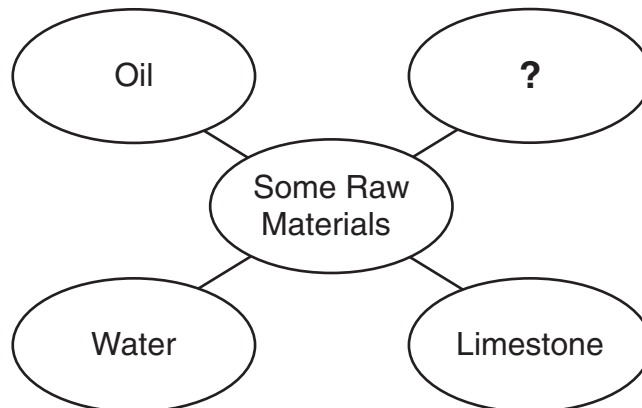
- F** government control of United States businesses.
- G** cost of producing goods in the United States.
- H** growth of trade in the United States.

### Some Tennessee Congressional Districts



**47** What is one difference between District 1 and District 9?

- A** The environment of District 9 is cleaner.
- B** People in District 9 live closer to each other.
- C** District 9 has more open spaces of land.



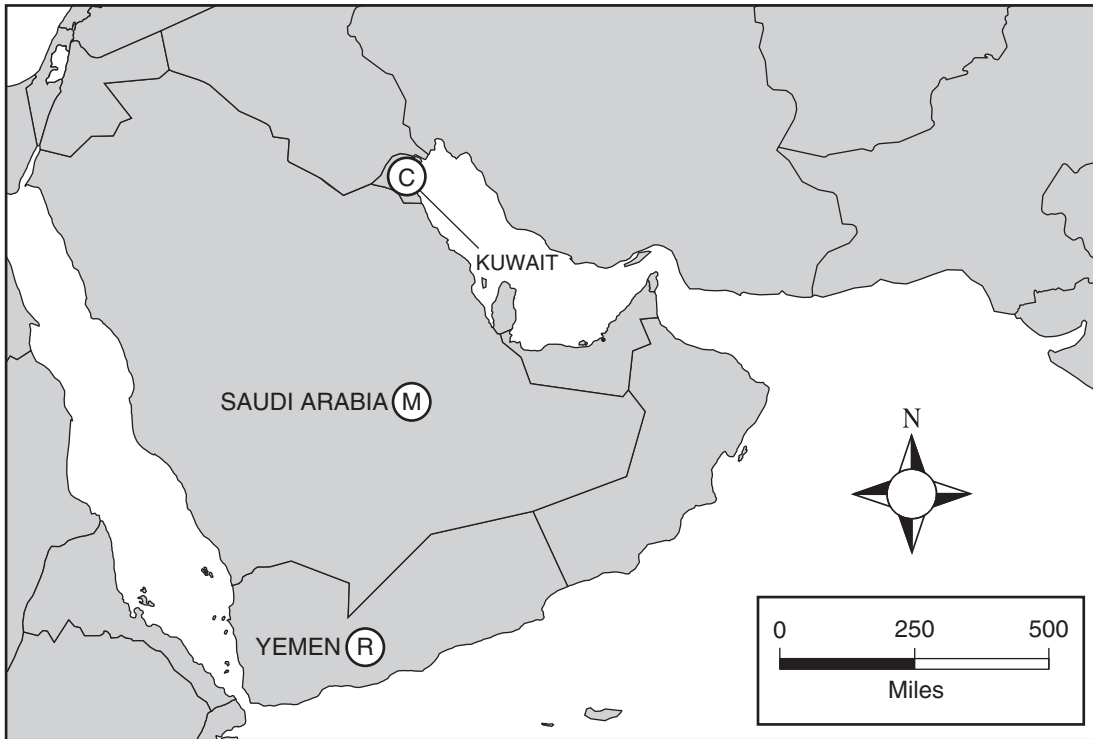
**48** Which of these best completes the diagram?

- F** Flour
- G** Steel
- H** Timber

*Go On* ►

**Directions** Use the map below to do Numbers 49 and 50.

### The Arabian Peninsula, 2004



KEY	
(C)	Constitutional Monarchy
(M)	Monarchy
(R)	Republic

**49** Which country shown on the map has a constitutional monarchy?

- A** Kuwait
- B** Saudi Arabia
- C** Yemen



**50** Which of these resources was most likely of greatest importance to early settlers in the area shown on the map?

- F** lumber
- G** gold
- H** water



Duke Ellington was born in Washington, D.C., and from an early age he loved music. When he was four years old, he listened to his mother play a popular piano tune called “The Rosary” and he cried, saying, “It was so pretty. So pretty.”

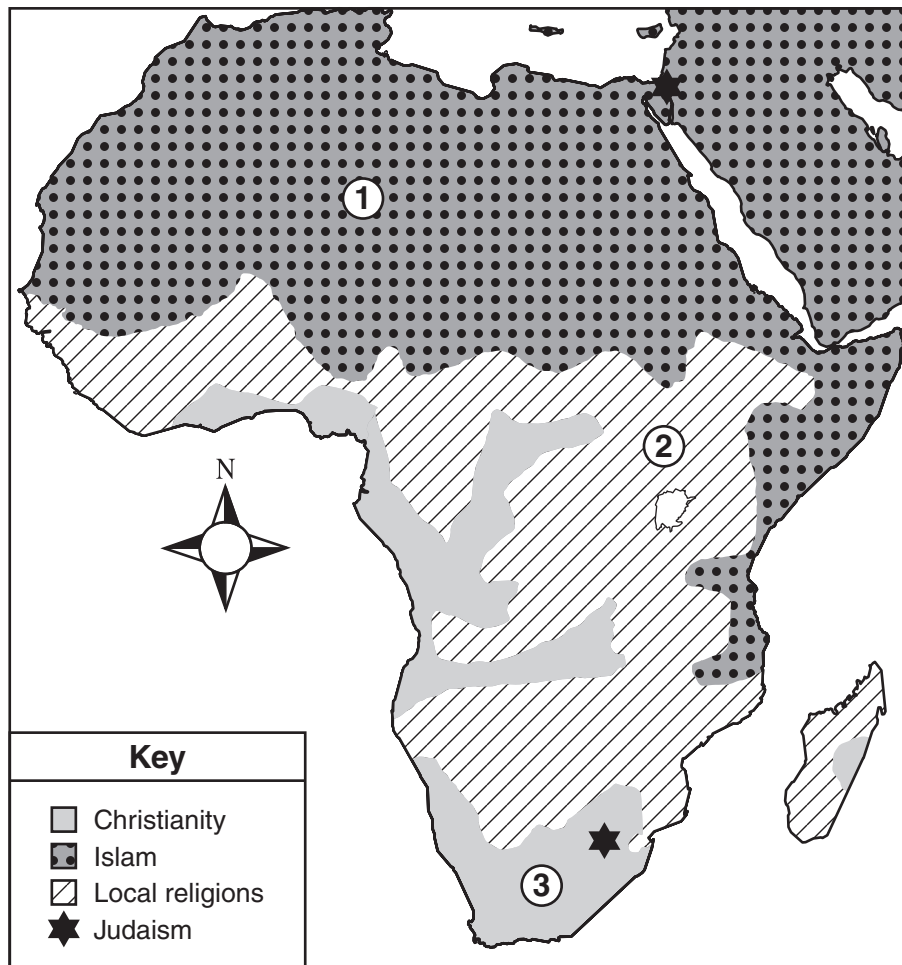
— Duke Ellington’s Early Years

**51** Based on the passage above, what was the main influence on Duke Ellington’s decision to become a musician?

- A** being born in a major city
- B** listening to his mother play the piano
- C** growing up in a wealthy family

*Go On* ►

## Some Religions of Africa



**52** According to the map above, which is the religion of Area 1?

- F** Islam
- G** Judaism
- H** Christianity

**53** A harmful result of urbanization is an increase in

- A** jobs.
- B** crime.
- C** farms.

Rhine River Danube River Thames River
---

**54** The rivers listed in the box above are on the continent of

- F** Australia.
- G** Europe.
- H** South America.

**55** Which Tennessee region is made up of flat-topped mountains and v-shaped valleys?

- A** Central Basin
- B** Gulf Coastal Plain
- C** Cumberland Plateau

*Go On* ►

**Causes of  
?**

---

- Wind
- Water
- Waves

**56** Which term best completes the title above?

- F** Erosion
- G** Avalanches
- H** Earthquakes

**Societal Improvements**

- Automobile safety regulations
- Reforms in the meat-packing industry
- Reports on the safety of baby food

**57** Which concern most influenced the actions on the list above?

- A** environmental quality
- B** consumer protection
- C** public education

**58** Which activity below can lead to desertification?

- F** overgrazing by animals
- G** burning of fossil fuels
- H** polluting of waterways

Foods Americans Eat	Cultural Influence
Tacos	Mexican
Hamburgers	German
Macaroni	Italian

**59** Which statement is best supported by the information in the table above?

- A** Foreign cultures eat only American foods.
- B** Americans enjoy having their own unique food culture.
- C** Many different cultures influence what Americans eat.

**60** Which statistic measures where people live?

- F** primary occupation
- G** infant mortality
- H** population distribution

**61** Solar energy is a renewable resource because the supply will

- A** not run out.
- B** be environment friendly.
- C** be free to replace.

**STOP** 

## Reading/Language Arts Answer Key

1	C
2	G
3	B
4	G
5	A
6	H
7	C
8	G
9	A
10	F
11	B
12	H
13	B
14	F
15	C
16	F
17	C
18	G
19	B

20	F
21	C
22	H
23	A
24	F
25	C
26	G
27	C
28	H
29	B
30	H
31	B
32	F
33	A
34	H
35	C
36	G
37	A
38	F

39	B
40	F
41	C
42	F
43	B
44	F
45	B
46	G
47	C
48	H
49	B
50	F
51	B
52	F
53	C
54	H
55	A
56	H
57	B

58	G
59	C
60	G
61	B
62	F
63	C
64	H
65	C
66	G
67	A
68	H
69	B
70	F
71	B
72	F
73	A

# Mathematics Answer Key

1	A
2	H
3	A
4	H
5	C
6	F
7	C
8	F
9	C
10	G
11	C
12	H
13	B
14	G
15	A
16	G

17	A
18	F
19	B
20	F
21	C
22	G
23	C
24	F
25	B
26	H
27	B
28	F
29	B
30	H
31	B
32	H

33	C
34	F
35	C
36	G
37	C
38	H
39	A
40	G
41	C
42	H
43	B
44	H
45	B
46	G
47	A
48	G

49	B
50	F
51	B
52	F
53	B
54	F
55	B
56	F
57	A
58	F
59	C
60	G
61	B

# Science Answer Key

1	A
2	H
3	B
4	G
5	C
6	G
7	B
8	G
9	C
10	G
11	A
12	G
13	C
14	H
15	A
16	F

17	B
18	F
19	B
20	F
21	A
22	G
23	C
24	H
25	C
26	F
27	A
28	H
29	C
30	F
31	A
32	G

33	A
34	H
35	A
36	F
37	B
38	H
39	B
40	F
41	C
42	G
43	C
44	F
45	A
46	G
47	C
48	G

49	C
50	H
51	B
52	H
53	C
54	F
55	B
56	H
57	A
58	H
59	B
60	F
61	B



# Social Studies Answer Key

1	B
2	H
3	A
4	F
5	B
6	G
7	C
8	F
9	A
10	G
11	C
12	F
13	A
14	F
15	C
16	G

17	A
18	F
19	B
20	G
21	C
22	G
23	C
24	F
25	C
26	G
27	C
28	F
29	B
30	G
31	A
32	H

33	A
34	F
35	A
36	G
37	B
38	G
39	A
40	H
41	B
42	G
43	B
44	H
45	A
46	H
47	B
48	H

49	A
50	H
51	B
52	F
53	B
54	G
55	C
56	F
57	B
58	F
59	C
60	H
61	A







# Tennessee Comprehensive Assessment Program

## Modified Academic Achievement Standards ~ Grade 7

### Practice Test



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