Student Name _____

Teacher Name _____

School _____

System _____

ACH

Tennessee Comprehensive Assessment Program

Achievement Test ~ Grade 6

Practice Test

Version B

PEARSON

Developed and published under contract with Tennessee State Department of Education by the Educational Measurement group of Pearson, a business of NCS Pearson Inc. 2510 North Dodge Street, Iowa City, Iowa 52245. Copyright © 2012 by Tennessee State Department of Education. All rights reserved. No part of this publication may be reproduced or distributed in any form or by any means, or stored in a database or retrieval system, without the prior written permission of Tennessee State Department of Education.

Table of Contents

Introduction 1

What is the TCAP Achievement Test? 1

What are the questions testing? 1

Who will be tested? 1

How long will the tests take? 1

How will the tests be scored? 1

May calculators be used? 1

Which test accommodations may be used? 2

What is the purpose of the practice test? 2

Here are some tips for preparing students for the test 2

Reading/Language Arts 3

Mathematics 61

Science 91

Social Studies 133

Answer Key 180

Introduction

What is the TCAP Achievement Test?

The TCAP Achievement 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 will be tested?

All students in grades 3 through 8 will be tested.

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 portions of the TCAP Achievement Test (grades 3–8) as per system policy.

Which test accommodations may be used?

The TCAP Achievement 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.

Reading and Language Arts

Part 1

Directions **Read the story. Then answer Numbers 1 through 8.**

Annabelle Comes Home

1 While returning from the store with her mother, Clarice noticed birds flying in a circle formation almost directly above her house.

2 "Mom, look at those birds," she said. "What are they doing?"

3 Clarice and her mom had moved into the neighborhood only three weeks before, and she was still getting familiar with her new surroundings.

4 "Those are homing pigeons," her mother stated. "Our neighbor, Mrs. Boggs, told me that her son and husband raise and race homing pigeons."

5 "How strange. I just read a book about homing pigeons. Neil Boggs is in my science class. I'll ask him how the birds know how to get home. Maybe he'd let me see them sometime," said Clarice.

6 As Clarice returned to the car to retrieve the last sack of groceries, she heard someone whistling. Suddenly three pigeons darted out from behind some underbrush and took flight toward the neighbor's backyard. Clarice heard the whistle again, but this time it was closer. Neil Boggs strode briskly around the corner.

7 "Hey there!" he said, smiling at Clarice. "These pigeons usually come when I whistle, but not today! I guess they're enjoying their freedom." Neil shrugged and then began searching under the bushes for his birds.

8 "My mom just told me about your pigeons. We saw them circling over our house," said Clarice.

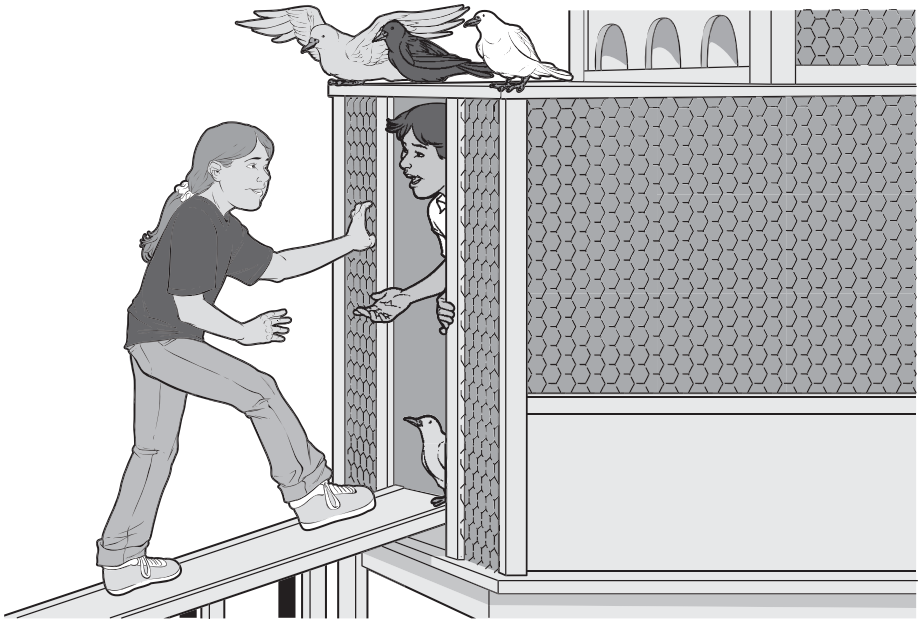
9 "Yeah, the circular flight pattern of pigeons is pretty unique," said Neil. "We keep them in a special loft. Would you like to see where they live?" At that moment, Neil gently scooped up an ash-gray bird from under a bush. "There you are! This little guy is still learning," he explained.

10 "I would love to see the loft!" said Clarice excitedly. After taking the groceries in the house and asking her mother's permission, she followed Neil next door.

Go On ▶

11 Clarice was impressed with the pigeon loft Neil and his dad had constructed, but she wondered how the birds could race each other and find their way home. Clarice was also amazed that the birds responded when Neil whistled.

12 Clarice stuck her finger through the mesh wiring of the cage. The pigeons were comfortable around people; in fact, they seemed to be as interested in Clarice as she was in them.



13 "You want to hold one?" Neil asked, picking up a gray pigeon. "This is Annabelle. She's one of our best racers this season."

14 Hesitantly, Clarice took the beautiful, downy gray pigeon, and when Annabelle started cooing and gently plucking at the zipper on Clarice's jacket, Clarice grinned.

15 "Annabelle's going to race in the next competition," Neil said.

16 "A pigeon race?" Clarice asked, giggling at the thought of such a thing.

17 "Sure. There is actually a whole pigeon-racing network," said Neil. Then he laughed. "That sounds like a spy novel, right? It is nothing like that! We know other pigeon racers and hold competitions. The winner is the pigeon that arrives home first!"

18 "So how do you know which pigeon arrives at its destination first?" Clarice asked, stroking the feathers on the back of the bird.

19 "Well, the birds are tagged and then monitored electronically," Neil said, showing her a device attached to the door of the loft. "Once a pigeon arrives home, its arrival registers at the racing headquarters."

20 "How do the pigeons know the route home?" Clarice asked.

21 "Navigation is an instinct with pigeons," Neil replied. "They know exactly how to get home unless the weather's bad. An electrical storm can cause them to lose their sense of direction. But since they are tagged, they can be found pretty easily."

22 "What do they do during the storm?" Clarice asked thoughtfully.

23 "Well, they find cover, and then they'll fly home on their own after the storm passes," answered Neil.

24 "Has one of your birds ever gotten lost?" Clarice asked.

25 "Well, no. We've been lucky," Neil replied, looking thoughtfully at the birds. "At this time of year, when storms can start so suddenly, we do worry a little about the birds when we have a competition."

26 "Wow!" said Clarice. "You count on the pigeons' internal radar to help them navigate home. It's like they have their own global positioning sensor. I wish my dog had that!" Clarice gently placed the pigeon back in the loft.

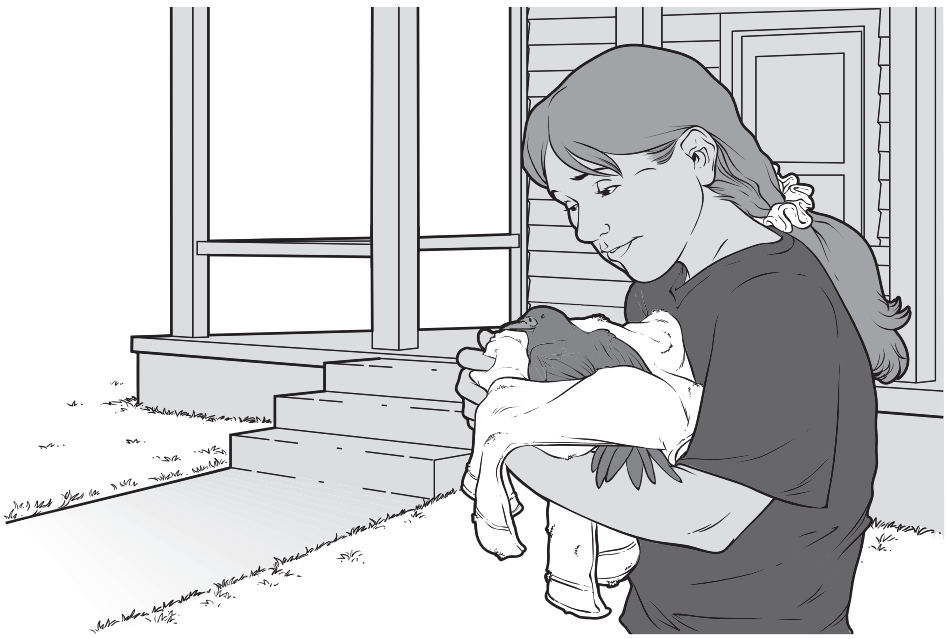
27 "Clarice, dogs have traveled long distances to get home too. I think many animals have a sort of internal radar. Homing pigeons are fascinating, though," Neil said proudly. "Hey, on Saturday, my dad and I are taking the pigeons out to the country for a practice flight. Since they can fly up to 50 miles an hour, you might be able to see them beat us home! They'll arrive around noon."

28 "I'll be watching!" Clarice promised.

29 Saturday was hot and muggy. A few minutes before noon, Clarice walked outside to watch for Neil's pigeons to fly overhead. Within minutes, the sky turned dark as storm clouds gathered. Clarice stepped onto her porch just as large drops of rain began to fall.

30 Clarice bit her lip, wondering if Neil's pigeons would be okay. Then, as she reached for the doorknob to go inside, she saw the fluttering of wings out of the corner of her eye. She spun around. There on the ground Clarice saw one of Neil's pigeons — soaking wet and looking for shelter!

31 Clarice dashed inside, grabbed a towel, and darted back onto the porch. The pigeon seemed calm as Clarice picked it up and gently patted it with the towel. She looked carefully for the ID bracelet on the bird's leg.

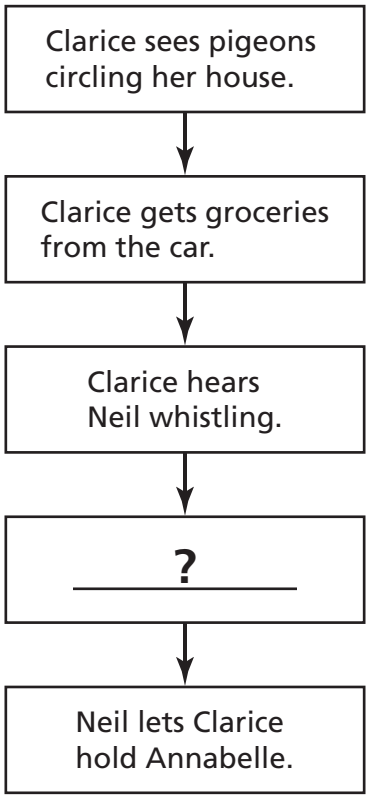


Go On ▶

32 It was Annabelle! Clarice held the bird gently for several minutes. As the rain slowed to a mist, Neil's shrill whistle rang out. Neil and his dad were pulling into their driveway. Clarice carried Annabelle delicately down the porch steps toward the car.

33 "Neil!" she called. Neil met Clarice between their yards, relieved to see Annabelle. Neil took Annabelle gently from Clarice and opened his hands to release her into the air. Clarice looked up and smiled as she watched Annabelle join the others flying home.

1 **Look at the graphic organizer.**



Which event belongs in the empty box?

A Neil asks Clarice if she wants to see the loft.

B Neil tells Clarice about the upcoming competition.

C Clarice asks if the pigeons have ever gotten lost.

D Annabelle coos at Clarice.

2 **The reader can tell that "Annabelle Comes Home" is fiction mainly because it**

F is about imaginary people and events.

G includes dialogue.

H uses descriptive words.

J is told in third-person point of view.

3 **Read this excerpt from Paragraph 21.**

"They know exactly how to get home unless the weather's bad. An electrical storm can cause them to lose their sense of direction. But since they are tagged, they can be found pretty easily."

What does sense mean as it is used in this excerpt?

A wisdom

B awareness

C meaning

D ability

4 **Read this sentence from Paragraph 19.**

"Well, the birds are tagged and then monitored electronically," Neil said, showing her a device attached to the door of the loft.

Which word is a synonym for monitored?

F guided

G presented

H transported

J observed

Go On ▶

5 **The author wrote this story to**

A entertain readers with a story about homing pigeons.

B explain that homing pigeons are easy to care for.

C inform readers how they can start racing homing pigeons.

D describe the dangers that homing pigeons face during competitions.

6 **Read Paragraph 14.**

Hesitantly, Clarice took the beautiful, downy gray pigeon, and when Annabelle started cooing and gently plucking at the zipper on Clarice's jacket, Clarice grinned.

The root word of hesitantly helps the reader to understand that Clarice picked up the pigeon

F thankfully.

G happily.

H cautiously.

J proudly.

7 **Near the end of the story, Annabelle gets lost because**

A it is dark outside.

B she is still learning the way home.

C she has never flown so far before.

D a storm begins.

8 **The main setting of the story is**

F the country.

G Neil's pigeon loft.

H outside Clarice's house.

J the store.

Go On ▶

Directions **Natasha wrote this letter to an Internet business company. It contains mistakes. Read the letter and answer Numbers 9 through 15.**

September 30, 2011

Skunk Scooters
100 Caldwell Street
Omaha, NE 68102

To Whom It May Concern:

1 On August 27, 2011, I ordered a Skunk Scooter from your website. I was very excited when it arrived because I bought it with money I saved from doing odd jobs over the summer. I have experienced several problems with my Skunk Scooter.

2 Although you advertised the Skunk Scooter as "the quickest, slickest scooter on the planet," I am very disappointed with my purchase. Since you're website promises a money-back guarantee, I am requesting a full refund. I have enclosed a copy of my receipt. Please let me know how I should ship the scooter back to your factory. I know that you would not want customers to keep broken products. Therefore, I would like to thank you in advance for taking care of my refund. My refund can be mailed to me at 3260 N. Main Street, Clarks, TN 37040.

3 First of all, the front wheel wobbles, making the scooter difficult to steer. Also, it makes a horrible screeching sound as the wheel sways from side to side. The sound is louder and more annoying than a roaring engine. The owner's manual says to tighten the screws. My mom and I did that. My bicycle has a lot of screws that need tightening from time to time. However, tightening the screws did not help. The wheel continues to shake. The scooter is faulty and cannot be repaired.

4 In addition, I cannot have adjusted the handlebars. According to your website, they can be easily raised to a height of thirty-six inches. This does not seem to be true of the Skunk Scooter I received. The handlebars are set at thirty inches, and they cannot be raised or lowered. It appears that the knob that is used to adjust the height is dented and jammed into the handlebars, which makes it impossible to turn in either direction. It is extremely hard to ride a scooter when the handlebars are the wrong height.

Sincerely,

Natasha Greene

9 **Read this sentence from Paragraph 4.**

In addition, I cannot have adjusted the handlebars.

Which is the correct replacement for the underlined words?

A adjust

B adjusted

C adjusts

D correct as is

10 **Read these sentences from Paragraph 3.**

The owner's manual says to tighten the screws. My mom and I did that.

Which is the best way to combine the sentences?

F My mom and I did as the owner's manual says, to tighten the screws.

G The owner's manual, as my mom and I did, says to tighten the screws.

H The owner's manual says to tighten the screws, which my mom and I did.

J As the owner's manual says, my mom and I to tighten the screws.

Go On ▶

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

The sound is louder and more annoying than a roaring engine.

Which is the correct way to write the underlined word?

A more louder

B most loud

C loudest

D correct as is

12 **Which sentence from Paragraph 3 is irrelevant and should be removed?**

F Also, it makes a horrible screeching sound as the wheel sways from side to side.

G My bicycle has a lot of screws that need tightening from time to time.

H However, tightening the screws did not help.

J The wheel continues to shake.

13 **Choose the most logical order for the paragraphs in Natasha's letter.**

A 1, 3, 4, 2

B 2, 1, 3, 4

C 4, 1, 3, 2

D 1, 4, 2, 3

14 **Read this sentence from Paragraph 2.**

Since you're website promises a money-back guarantee, I am requesting a full refund.

What is the correct way to write the underlined word?

F youre

G yours

H your

J correct as is

15 **Read this sentence from Paragraph 1.**

_____, *I have experienced several problems with my Skunk Scooter.*

Choose the best transitional word to fill in the blank.

A Also

B Finally

C Therefore

D Unfortunately

Go On ▶

Directions **Jacob wrote this report. It contains mistakes. Read the report and answer Numbers 16 through 22.**

(1) No one is ever too young to make a difference. (2) Olivia Bouler has proved that beyond a doubt.

(3) Eleven-year-old Olivia was concerned about pollution in the Gulf of Mexico. (4) She was especially concerned about the birds living along the coast. (5) Olivia wanted to help and she had an idea about what she could do.

(6) Olivia had always loved to draw and paint birds. (7) "I'm no James Audubon, she said, referring to an artist famous for his illustrations of birds, but I can draw." (8) Olivia felt her watercolors of birds were good enough that some people might buy them. (9) She wondered if people would be even more likely to buy her artwork if they knew the money would be used to help birds on the Gulf Coast.

(10) Olivia contacted the National Audubon Society this society honors James Audubon, the artist Olivia greatly admires. (11) The group works to aid and save endangered birds. (12) The National Audubon Society was thrilled with Olivia's offer to help. (13) Olivia pledged to create five hundred original drawings.

(14) With the National Audubon Society's help, Olivia's "Save the Gulf" campaign was announced. (15) Her story gained a great amount of attention. (16) America Online (AOL) news published an article about Olivia. (17) Just three days after the story appeared, her project had already raised $20,000. (18) This success inspired AOL to become a partner in her campaign. (19) It donated $25,000 to the National Audubon Society for the assistance of Gulf Coast wildlife.

(20) AOL now features Olivia's project through an artists page that shares the works of many people. (21) Olivia also shares information about her goals on a social networking website. (22) Olivia, thanks to these Internet resources, have sold many of her paintings. (23) Some people have sent in donations too. (24) One count shows that Olivia is raising close to $200,000 in the past few years.

(25) Success inspired Olivia to work even harder. (26) She completed a book project. (27) The book, called *Olivia's Birds: Saving the Gulf*, is a collection of her bird drawings. (28) Each drawing includes facts about the pictured bird. (29) Olivia hopes that her book will raise more awareness about the Gulf Coast birds that she loves so much.

16 **Read Sentence 22.**

Olivia, thanks to these Internet resources, have sold many of her paintings.

Choose the correct replacement for the underlined words.

F sell

G has sold

H are selling

J were selling

17 **Who would most enjoy reading this report?**

A children who are studying art

B scientists who work to save endangered animals

C artists who would like to promote their projects

D people who want to make a difference in their world

Go On ▶

18 **Read Sentence 7.**

> *"I'm no James Audubon, she said, referring to an artist famous for his illustrations of birds, but I can draw."*

Which sentence uses quotation marks correctly?

F "I'm no James Audubon," she said "referring to an artist famous for his illustrations of birds, but I can draw."

G "I'm no James Audubon, she said" referring to an artist famous for his illustrations of birds, "but I can draw."

H "I'm no James Audubon," she said, referring to an artist famous for his illustrations of birds, "but I can draw."

J "I'm no James Audubon," she said, referring to an artist famous for his illustrations of birds, but "I can draw."

19 **Which sentence, if added, would best support the ideas presented in the second paragraph?**

A For Olivia, being concerned was not enough.

B Olivia was a good student and a good artist too.

C From the time Olivia was a young child, she had been interested in birds.

D Olivia was concerned about many endangered animals throughout the world.

20 **A student wants to learn more about endangered birds. Which research topic is most focused?**

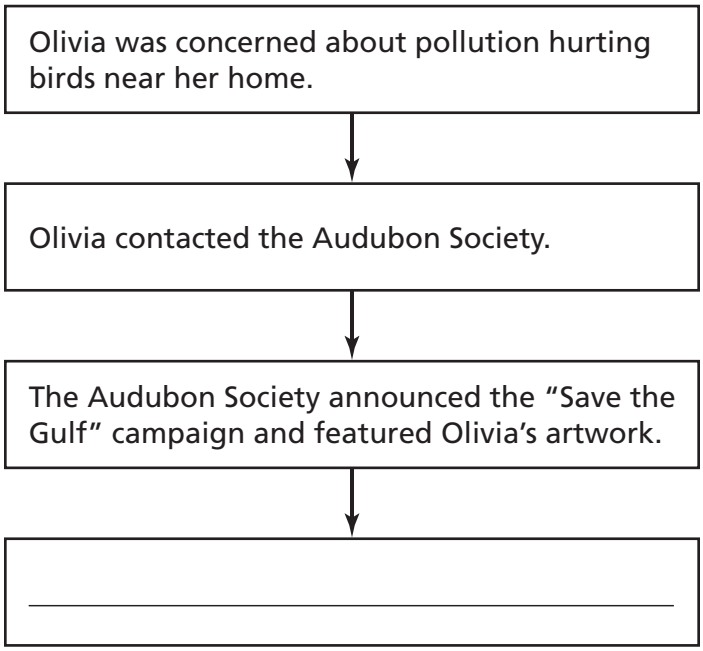
F how environmental waste harms endangered animals

G birds that inhabit endangered coastal areas around the world

H nesting habitats of endangered birds

J how endangered birds are helped

21 **Read this flowchart that Jacob made before writing his report.**



Which <u>best</u> fits the blank space in this list?

A Olivia created a book of her drawings.

B Olivia admired a famous painter.

C Olivia pledged to complete five hundred drawings.

D Olivia thought people would want to buy her artwork.

Go On ▶

22 **Read Sentence 20.**

AOL now features Olivia's project through an artists page that shares the works of many people.

What is the correct way to write the underlined word?

F artist's

G artists'

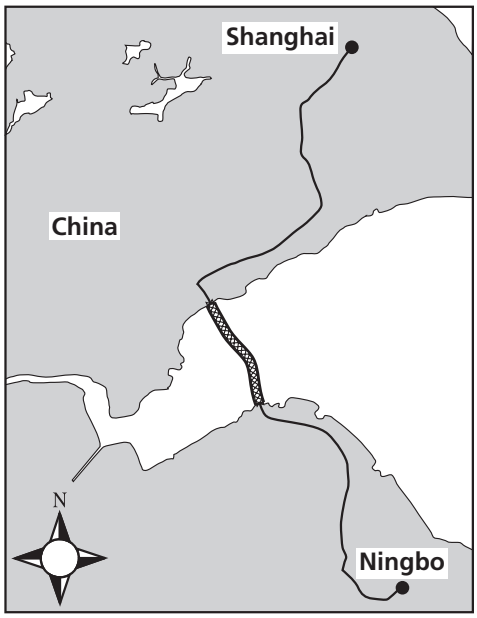
H artists's

J correct as is

Directions **Read the passage. Then answer Numbers 23 through 29.**

Hangzhou Bay Bridge

1 Since ancient times, people have built bridges to travel easily from one place to another. As engineering methods have improved, it has become possible to build longer and longer bridges. Some extend for miles! The Hangzhou (hahng-joh) Bay Bridge in China is an example of an extremely long bridge. At twenty-two miles across, it holds the record as the world's longest ocean-crossing bridge.



2 Drivers who wish to cross the Hangzhou Bay Bridge must pay a toll. However, the cost is well worth it. The bridge has six highway lanes, three in each direction, so drivers can travel at speeds of around sixty miles per hour. Before the bridge was opened, it took at least four hours to travel between the Chinese city of Shanghai and the port town of Ningbo. Now, because of the bridge, the trip is much shorter.

3 The Hangzhou Bay Bridge is S-shaped, with two tall arches and many supporting cables. The bridge even has a service center that rests on piers rising out of the ocean. The service center has a gas station, a restaurant, a hotel, and a lookout tower. Tourists who climb up inside the tower can enjoy incredible views of the Hangzhou Bay.

4 As you might imagine, building this magnificent bridge was not easy. Designing the bridge took nearly ten years. During this time, six hundred experts from around the world conducted more than one hundred studies to try to overcome the challenges of the project. The biggest problem was the famous high tides of Hangzhou Bay. The bay is a deep gulf of water where strong winds often blow, and waves can reach up to twenty-five feet high. The waves make a thunderous noise as they travel at about eighteen miles per hour. The bridge must withstand these extreme conditions.

5 The location of the bridge caused several other problems too. In addition to strong, fast-flowing currents in Hangzhou Bay, the soil at the bottom of the bay proved to be problematic as well. Experts found toxic gas under the bay floor that had to be released before the bridge could be built safely. Wang Yong, the chief director in charge of the project, summed up the problems when he told reporters that the Hangzhou Bay Bridge was being built "in the world's most complicated sea environment."

6 In 2003, workers began constructing the bridge. Because of the dangerous tides and currents, they were not able to use boats to complete much of the work. Instead, huge pieces of the bridge were built on land. Some of these pieces were as tall as a thirty-story building. The finished pieces were carried to their proper position using giant floating cranes that weighed many tons. Experts used Global Positioning Systems, or GPS, to make sure that each piece was put in exactly the right place.

7 During the process of constructing the bridge, workers noticed a serious problem — there were many

Go On ▶

cracks and bubbles in the concrete. The cracks would cause seawater to erode the concrete, and over time, the bridge would weaken and become unsafe. After much experimentation, engineers developed a way to strengthen the building materials and reduce the cracks. Their methods may be used on other concrete bridges in the future.

8 In June 2007, the work was finally finished and the local Chinese people held a celebration. The final project had cost over a billion dollars and required the efforts of thousands of workers. However, the bridge was not officially opened to drivers for nearly a year. During that time, the bridge was tested to make sure it was safe. Finally, in May 2008, the bridge was opened to drivers. It is estimated that over 40,000 vehicles travel the bridge daily.

9 For the many drivers who use the bridge every day, as well as bridge enthusiasts around the world, the Hangzhou Bay Bridge was well worth the time, cost, and effort. It stands as a marvel of modern engineering and a reminder that humans can achieve almost any task.

23 **Choose the best summary of the passage.**

A The Hangzhou Bay Bridge provides six highway lanes, so drivers can quickly travel across it at high speeds. Chinese citizens appreciate how this bridge has shortened the driving time of a trip that used to take at least four hours.

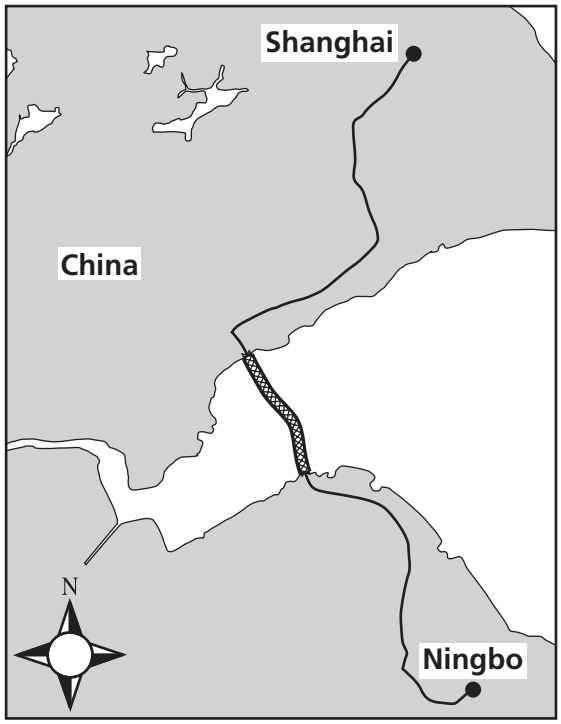
B The Hangzhou Bay Bridge in China faces extreme weather. Building the bridge was extremely complicated because of dangerous tides and currents.

C People have been building longer and stronger bridges since the early bridges of ancient times. Advances in engineering methods have allowed people to build much longer bridges like the Hangzhou Bay Bridge in China.

D The Hangzhou Bay Bridge in China is the longest ocean-crossing bridge in the world. People solved many challenging problems in order to build the bridge that is used by millions of drivers annually.

Go On ▶

24 **Look at this illustration from the passage.**



Which statement best summarizes the message in the illustration?

F There are large cities built near the bay.

G The bridge covers an enormous distance.

H The bridge moves from the east to the west.

J There are many ways to travel between the cities.

25 **Which question is answered by information in the passage?**

A Why was the bridge built using an S-shape?

B What is the longest land bridge that has ever been built?

C How many vehicles travel the bridge each day?

D What types of repairs might the bridge need in the future?

26 **Read the dictionary entry.**

overcome (verb) **1.** conquer **2.** exhaust **3.** move **4.** bother

Now read this sentence from Paragraph 4.

> *During this time, six hundred experts from around the world conducted more than one hundred studies to try to overcome the challenges of the project.*

Which meaning of the underlined word is used in the sentence?

F conquer

G exhaust

H move

J bother

27 **The Hangzhou Bay Bridge was most likely built to**

A offer the people of China the most beautiful views of the bay.

B satisfy the Chinese government with the building of the world's longest bridge.

C help the Chinese government be the first to build a bridge using boats.

D allow additional travel to and from one of the largest cities in China.

Go On ▶

28 **Which sentence from the passage best supports the idea that the Hangzhou Bay Bridge encourages tourism?**

F The bridge even has a service center that rests on piers rising out of the ocean.

G The service center has a gas station, a restaurant, a hotel, and a lookout tower.

H The final project had cost over a billion dollars and required the efforts of thousands of workers.

J It stands as a marvel of modern engineering and a reminder that humans can achieve almost any task.

29 **The author wants to show readers that high tides caused problems during the construction of the Hangzhou Bay Bridge. Which visual aid would best reinforce this viewpoint?**

A a chart showing the tide levels in Hangzhou Bay during different months

B a photograph that shows Hangzhou Bay during a storm

C a timeline of the major storms that have moved through Hangzhou Bay

D a diagram that shows why tides occur in Hangzhou Bay

Directions **Ray gave this speech. Read the speech and answer Numbers 30 through 38.**

A Gift beyond Price

1 One of the most unique historical feats was accomplished by Sequoyah of the Tsalagi (Cherokee) Nation. Sequoyah could not read or write in English, but he created an alphabet for his native language in the early 1800s. Sequoyah was influenced by seeing the power of the settlers' marks on paper and the books he referred to as "talking leaves." Sequoyah had witnessed settlers sending information over long distances by way of letter. He came to the conclusion that the settlers' power lay in the ability to write down agreements. He wanted the people of his tribe to have that power as well.

2 Sequoyah was born in the 1770s and grew up in the Cherokee village of Tuskeegee, Tennessee. Since he was injured on a hunting trip when he was young, he couldn't walk or run long distances. Therefore, he became skilled at working with silver jewelry. According to legend, a settler who was one of Sequoyah's customers suggested he put his name on the silver jewelry he made. Sequoyah, however, could not write his name because Cherokee was only a spoken language. He became determined to learn how to write his name, so Sequoyah asked a farmer to help him. The farmer printed Sequoyah's tribal name and his given English name — George Gist. From that time on, Sequoyah signed his work in English. Still, Sequoyah was hungry to learn more.

3 Further contact with settlers convinced Sequoyah that a written language was important and necessary for his people. In 1809, Sequoyah began to design a system for writing Cherokee words. This was not an easy task. Sequoyah started by making small drawings, or pictographs, to represent words. He carved or drew images of words on pieces of tree bark. For example, "tree" would be one image; "run" would be another image. Soon Sequoyah's collection of pictographs became too large to be practical, so he started over again.

4 This time, Sequoyah experimented with creating a character, or letter, for each sound in the Cherokee language. First, Sequoyah identified all the sounds in the Cherokee language. Then he assigned each sound a symbol. Unlike English, however, no two sounds shared the same symbol. For example, in English, the sound of the letter 'a' in "bake" is different from the sound of the 'a' in "bat." In the Cherokee alphabet, each sound was given a symbol of its own.

Go On ▶

5 Sequoyah's work was difficult and time consuming. Worse, those around Sequoyah didn't understand what he was doing with all those strange symbols. Some grew suspicious of his work, while others wondered about his mental state. However, Sequoyah didn't stop working. He was determined to develop a way to write down the Cherokee language. He wanted to give the gift of reading and writing to the Cherokee Nation.

6 In 1821, Sequoyah completed his alphabet. Each symbol in the alphabet represented one of the eighty-five sounds in the Cherokee language. By saying the name of each symbol, a person could read the spoken word. For example, in English, saying the letters 'm' and 't' would give you the English word "empty," while saying the names of the letters 'i' and 'c' produces the word "icy."

7 Sequoyah taught the symbols to his daughter, Ayoka. Soon Ayoka could read and write the Cherokee language. Sequoyah and six-year-old Ayoka went to show Sequoyah's alphabet to the elders of the Cherokee Nation. To demonstrate how the written symbols worked, Ayoka left while Sequoyah wrote down what the elders said.

8 When Ayoka returned, she read out loud what Sequoyah had written. The elders were stunned. Ayoka was repeating their words, but she had not been present to hear them. Spoken Cherokee words could now be written down and preserved!

9 Sequoyah's alphabet was quickly adopted as the official written language of the Cherokee Nation. Thousands of Cherokee people learned to read and write in their own language within months.

10 Sequoyah had succeeded. His written language was so simple that the entire Cherokee Nation eventually learned to use it. Today, Sequoyah's great gift is remembered and used by all who speak, read, and write the Cherokee language.

30 **Read this list of books.**

1. Aaron, Ann. *A History of Native American Jewelry*. New York: Jubilee Press, 1978.
2. Brimms, David. *Letters from a Cherokee*. New York: Hopscotch, 2002.
3. Chase, Susan. *The 1800s — The History of a Century*. Chicago: Hoopster Press, 1976.
4. Samuel, Jane. *A Biography of Important Cherokees*. Seattle: Jingle Bell, LLC, 2000.

Which book would provide a person with the most reliable information about Sequoyah?

F Book 1

G Book 2

H Book 3

J Book 4

31 **This speech is mainly about Sequoyah's**

A written symbols and how they were introduced to his tribe.

B work with silver and how he improved his jewelry-making skills.

C relationship with his daughter and how he taught her to read in Cherokee.

D discussions with a farmer and how he learned to write his English name.

32 **Which group would benefit the most by listening to Ray's speech?**

F descendants of the Cherokee people

G students studying the history of language

H residents of the state of Tennessee

J teachers who help people learn to read

Go On ▶

33 **Which is the best summary of this speech?**

A Sequoyah was a Cherokee who became injured during a childhood hunting trip. He learned to work with silver instead of becoming a hunter. Many of his customers said he should sign his work, and eventually he learned to sign his name. Sequoyah learned to write both his tribal name and his English name.

B Sequoyah was born in Tuskeegee, Tennessee, during the 1770s. As a Cherokee, he used a spoken language and did not have a way to write words. He spent time with an English farmer and learned how to write his name. He taught his daughter, Ayoka, how to read and write in his written language when she was six years old.

C Sequoyah was a Cherokee born in Tuskeegee, Tennessee. He had seen English settlers use a written language and wanted his people to be able to read and write. He spent several years working on a written language. When he finished it, he showed his tribe, and they have used his written language to this day.

D Sequoyah tried different ways to give a written language to his people. At first, he used small drawings to represent words. Then he made symbols to identify sounds in his native language. Some of the Cherokee people did not understand what he was trying to accomplish and became suspicious of his written words.

34 **During his research for the speech, Ray made this list of facts.**

1. *Sequoyah's pictographs illustrated common Cherokee activities.*
2. *Sequoyah learned how to hunt from an older Cherokee.*
3. *Sequoyah had to prove to his tribe that a written language was useful.*
4. *Sequoyah's alphabet became popular because of its simplicity.*

Which fact is not relevant to Ray's speech?

F Fact 1

G Fact 2

H Fact 3

J Fact 4

35 **Ray gave this speech most likely to**

A persuade the audience to learn more about the Cherokee alphabet.

B explain to the audience that language is important to the Cherokee people.

C entertain the audience with examples of Sequoyah's imagination.

D inform the audience about Sequoyah's contributions to his people.

36 **Which statement from the speech is an opinion?**

F In 1809, Sequoyah began to design a system for writing Cherokee words.

G Sequoyah's work was difficult and time consuming.

H Each symbol in the alphabet represented one of the eighty-five sounds in the Cherokee language.

J Sequoyah taught the symbols to his daughter, Ayoka.

37 **When Ray delivers his speech, he can most effectively engage the audience by**

A spelling the Cherokee names aloud for his audience.

B speaking quickly.

C making gestures to imitate the actions of Sequoyah.

D using a clear voice.

38 **A student wants to learn a few basic phrases in the Cherokee language. Which source will contain the best information about the topic?**

F an interview with a Cherokee Native American

G a history textbook

H a Cherokee dictionary with English translations

J an encyclopedia

Go On ▶

Directions **Read and answer Numbers 39 through 42.**

39 **Read these instructions on how to paint a wall.**

1. *Remove any tacks or nails from the wall.*
2. *Once the first layer dries, paint on a second layer.*
3. *Lightly sand nail holes until smooth.*
4. *Paint the wall with one layer of paint.*
5. *Cover floors and move furniture.*

What is the correct order for this project?

A 5, 1, 4, 3, 2

B 5, 1, 3, 4, 2

C 5, 2, 1, 4, 3

D 5, 3, 1, 2, 4

40 **Rose is a member of a team that has been asked to complete a science project. If Rose has difficulty completing her tasks, she should**

F ask her teacher if she can be moved to a different team.

G request that her team choose a different project.

H tell other group members to finish tasks for her.

J ask the group leader to assist her with her tasks.

41 **Look at the photograph.**

Identify the type of conflict represented in the photograph.

A person vs. person

B person vs. technology

C person vs. environment

D person vs. self

Go On ▶

42 **Lisa is giving a presentation about the school vending machines. Read her outline.**

1. *examples of healthy alternatives to place in vending machines*
2. *description of unhealthy foods in current school vending machines*
3. *list of reasons why students choose to eat unhealthy snacks at school*
4. *description of how changes to vending machine snacks will benefit students*

Choose the correct order for Lisa's outline.

F 2, 4, 1, 3

G 3, 2, 4, 1

H 1, 3, 4, 2

J 2, 3, 4, 1

STOP

DO NOT

MARK

ON THIS

PAGE

Part 2

Directions **Read the website. Then answer Numbers 43 through 50.**

Home | Visit the Museum | Events and Exhibits | Classes and Camps

Welcome to Fernwood Space Museum!

Special Events

- Guest Speakers
- Demonstrations
- Celebrations

Teacher Resources

- School Tours
- Newsroom
- Project Ideas

Supporting the Museum

- Intergalactic Marketplace
- Volunteers
- Donations

Blast off for adventure at Fernwood Space Museum! Tennessee's museum of astronomy and space exploration challenges you to explore and learn!

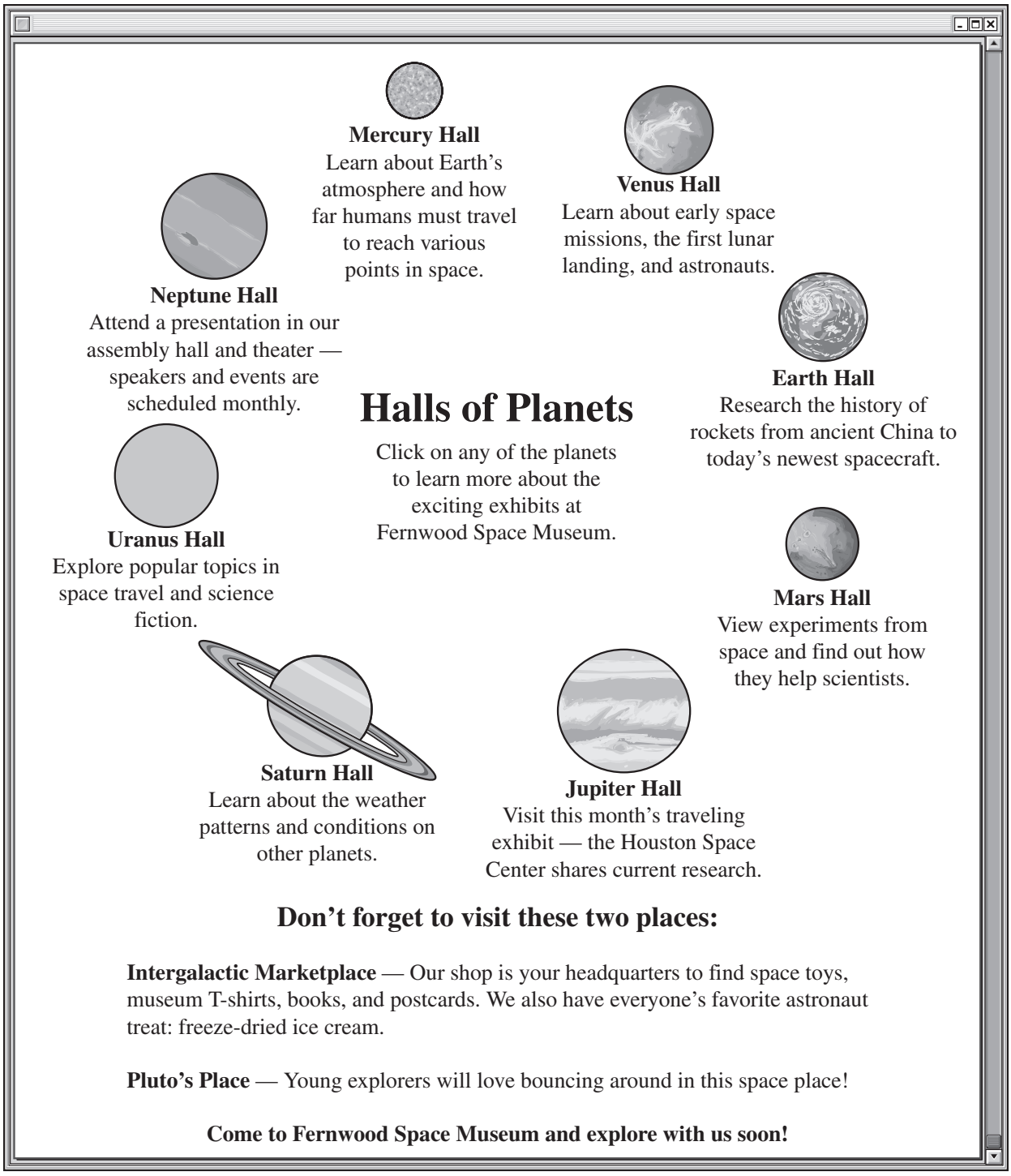
Dr. Alfred W. Fernwood opened the Fernwood Space Museum in 1973. As the president of Fernwood Space Industries, he believed that teaching children about space exploration would guarantee the future of scientific experimentation. The museum was Dr. Fernwood's lifelong dream. His family continues to help with its educational programs.

Summer Programs

Energize your brain with a week at one of the summer space camps at Fernwood Space Museum!

- **Up, Up, and Away** (grades K through 3) — Learn about the first flights into space while building your own model spacecraft.
- **Act like an Astronaut** (grades 4 through 6) — Spend a week working with a team inside our space shuttle models.
- **Rocket Science** (grades 5 through 8) — Examine the science of rockets and build a working miniature rocket.
- **Newton's Laws** (grades 7 through 9) — Study the laws of physics and see how they apply to space.

Visit our **Classes and Camps** link for more information about all of our educational offerings.



Mercury Hall
Learn about Earth's atmosphere and how far humans must travel to reach various points in space.

Venus Hall
Learn about early space missions, the first lunar landing, and astronauts.

Neptune Hall
Attend a presentation in our assembly hall and theater — speakers and events are scheduled monthly.

Earth Hall
Research the history of rockets from ancient China to today's newest spacecraft.

Halls of Planets

Click on any of the planets to learn more about the exciting exhibits at Fernwood Space Museum.

Uranus Hall
Explore popular topics in space travel and science fiction.

Mars Hall
View experiments from space and find out how they help scientists.

Saturn Hall
Learn about the weather patterns and conditions on other planets.

Jupiter Hall
Visit this month's traveling exhibit — the Houston Space Center shares current research.

Don't forget to visit these two places:

Intergalactic Marketplace — Our shop is your headquarters to find space toys, museum T-shirts, books, and postcards. We also have everyone's favorite astronaut treat: freeze-dried ice cream.

Pluto's Place — Young explorers will love bouncing around in this space place!

Come to Fernwood Space Museum and explore with us soon!

Go On ▶

43 **Read this sentence from the "Summer Programs" section of the website.**

Energize your brain with a week at one of the summer space camps at Fernwood Space Museum!

The root of the underlined word suggests that the minds of students who attend the camps will be

A active.

B reminded.

C creative.

D challenged.

44 **What is the main idea of the introductory paragraphs at the beginning of the website?**

F Dr. Fernwood enjoyed teaching science classes about space exploration.

G Dr. Fernwood wanted his family to develop educational programs about space.

H Dr. Fernwood enjoyed his work in the space industry and wanted to encourage others.

J Dr. Fernwood believed educating children about space would result in future experimentation.

45 **Read this sentence from the website.**

We also have everyone's favorite astronaut treat: freeze-dried ice cream.

What persuasive device is used in the sentence?

A loaded terms

B testimonial

C bandwagon

D name-calling

46 **Which link on the website will provide more information about the first lunar landing?**

F Mercury Hall

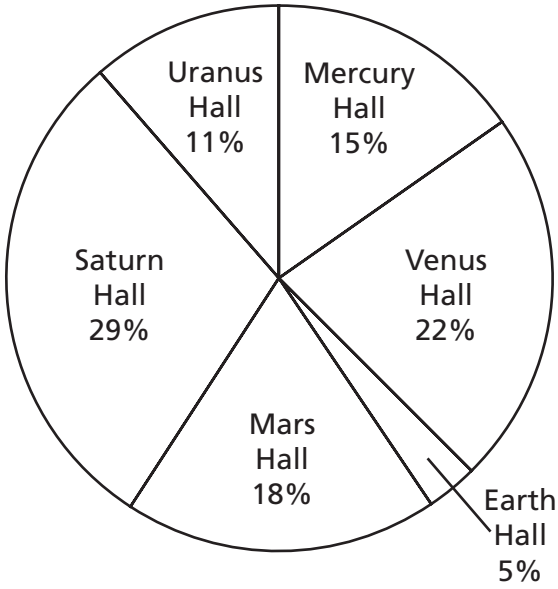
G Venus Hall

H Earth Hall

J Saturn Hall

47 **Maria works at the museum. She has been keeping track of which exhibits are the most popular with students. Below is a chart she made based on recent exhibit attendance.**

Student Exhibit Attendance



According to Maria's chart, which exhibit is more popular than Mars Hall but less popular than Saturn Hall?

A Mercury Hall

B Venus Hall

C Earth Hall

D Uranus Hall

Go On ▶

48 **The main purpose of this website is to**

F inform readers about the services and exhibits at the museum.

G describe where visitors can find each of the exhibits in the museum.

H entertain children with stories and details about the museum.

J persuade readers to register for summer programs at the museum.

49 **The museum staff wants to encourage students to join a special summer program titled "Astronauts at Work." Which handout should staff give to visitors to encourage people to sign up for this special program?**

A a photograph of students who participated in the program long ago

B a magazine article about the training needed to fly the space shuttle

C a pamphlet showing a detailed diagram of a new space shuttle

D a flier explaining the activities and costs for enrolling in the program

50 **Kendra recently viewed the exhibit on the history of rockets. She would like to give a presentation about how rockets have changed over the years. Which medium would best enhance Kendra's presentation?**

F a video clip of workers building a spacecraft

G a slide show of images of modern spacecraft

H a timeline noting important advancements in spacecraft

J a chart listing the name and launch date of every spacecraft

Directions **Matt wrote this letter to Ms. Ishika. It contains mistakes. Read the letter and answer Numbers 51 through 59.**

March 17, 2011

Ms. Lin Ishika
Peer Tutor Supervisor
Pace Elementary School
52143 Callen Blvd.
Mitford, TN 12352

Dear Ms. Ishika:

1 I heard about an opening in the peer-tutoring program at your school, and my principal, Mr. Stein, recommended that I contact you. He believes myself would enjoy being a part of this wonderful program.

2 A good tutor must be organized. Sometimes managing my schoolwork and playing soccer can be difficult. Sometimes I have up to four soccer games each week. However, I have learned that planning ahead and setting goals helps me be successful with both activities. Using these same skills will enable me to be an effective math tutor.

3 I am a sixth grader at Mitford Middle School. It is just one street away from Lenore Elementary School. I am very busy and have learned to manage my time well. I work hard in all of my classes I really enjoy school, especially math class. In addition, I am on the MMS soccer team. As a team member, I try to be a posetive role model, and I work hard during every practice.

4 Ms. Ishika, I would like to talk to you more about my interest in tutoring. Please contact me at 290-5992. I look forward to hearing from you.

5 Many students who do not enjoy math would benefit from having a tutor with a good attitude. I motivate my little brother all the time. For example, he does not like to eat his vegetables at dinner. I often suggest little contests to see which one of us can finish his vegetables first. The winner gets to after we eat choose which game we play. By the end of dinner he usually wins the contest and earns the reward. I hope to use this same motivation method with the students I tutor. When a student works hard and learns a skill, maybe we could play a math game as a reward.

Sincerely,

Matt Lancaster

Go On ▶

51 **Read this sentence from Paragraph 5.**

By the end of dinner he usually wins the contest and earns the reward.

What is the correct way to write this sentence?

A By the end of dinner he, usually, wins the contest and earns the reward.

B By the end of dinner, he usually wins the contest and earns the reward.

C By the end of dinner he usually wins the contest, and earns the reward.

D By the end, of dinner, he usually wins the contest and earns the reward.

52 **Read this sentence from Paragraph 5.**

The winner gets to after we eat choose which game we play.

Choose the sentence that uses the prepositional phrase correctly.

F The winner after we eat gets to choose which game we play.

G After we eat which game we play the winner gets to choose.

H The winner gets to choose which game we play after we eat.

J Which game we play after we eat the winner gets to choose.

53 **Read these sentences from Paragraph 3.**

I am a sixth grader at Mitford Middle School. It is just one street away from Lenore Elementary School.

Choose the best way to combine these sentences.

A Mitford Middle School, is just one street away from Lenore Elementary School, and I am a sixth grader there.

B I am a sixth grader at Mitford Middle School, and just one street away from Lenore Elementary School.

C Mitford Middle School, which is just one street away from Lenore Elementary School, is where I am a sixth grader.

D I am a sixth grader at Mitford Middle school, which is just one street away from Lenore Elementary School.

54 **Read Paragraph 1.**

I heard about an opening in the peer-tutoring program at your school, and my principal, Mr. Stein, recommended that I contact you. He believes myself would enjoy being a part of this wonderful program.

Choose the correct replacement for the underlined words above.

F He believes I

G He believes me

H They believe I

J They believe me

Go On ▶

55 **Choose the best concluding sentence for Paragraph 3.**

A Planning my time for schoolwork and sports has helped me develop the skills needed to be a successful tutor.

B Even after our soccer team loses a game, I have a good attitude and tell my teammates that we will do better next time.

C As a sixth grader, I have learned a lot about how to do math, and I would be able to do a good job tutoring younger students.

D I have always been an excellent math student because I complete all of my homework assignments every night, even if I have a soccer game.

56 **Ms. Ishika asks Matt to write an essay about why he wants to be a tutor in the program. Which sentence is the best thesis statement for Matt's essay?**

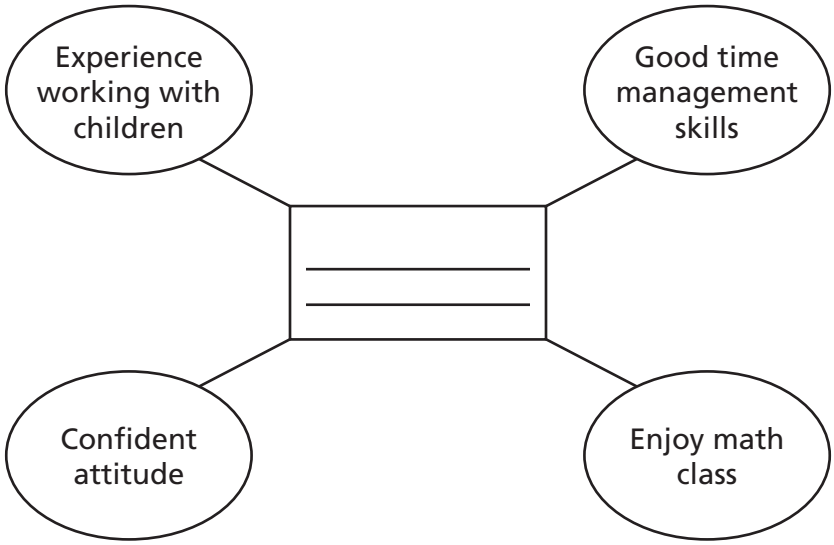
F I have a younger brother, and I enjoy using my skills to help motivate him to do things he does not want to do.

G I would like to work as a tutor because it would allow me to help others and use my skills in organization and motivation.

H I believe that peer tutoring programs benefit many students, and I am very glad that the elementary school has a program like this.

J I have developed excellent time management skills because I have learned to budget my time wisely between doing schoolwork and playing soccer.

57 **Matt made this planning web before writing his letter.**



Which idea best fits in the center of the web?

A When to become a tutor

B Reasons being a tutor is fun

C How tutors helps students

D Qualifications of a tutor

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

I work hard in all of my classes I really enjoy school, especially math class.

Choose the best way to correct this run-on sentence.

F I work hard in all of my classes. So I really enjoy school, especially math class.

G I work hard in all of my classes; but, I really enjoy school, especially math class.

H I work hard in all of my classes, and I really enjoy school, especially math class.

J I work hard in all of my classes, or, I really enjoy school, especially math class.

Go On ▶

59 **Which sentence from Paragraph 2 is irrelevant and should be removed?**

A A good tutor must be organized.

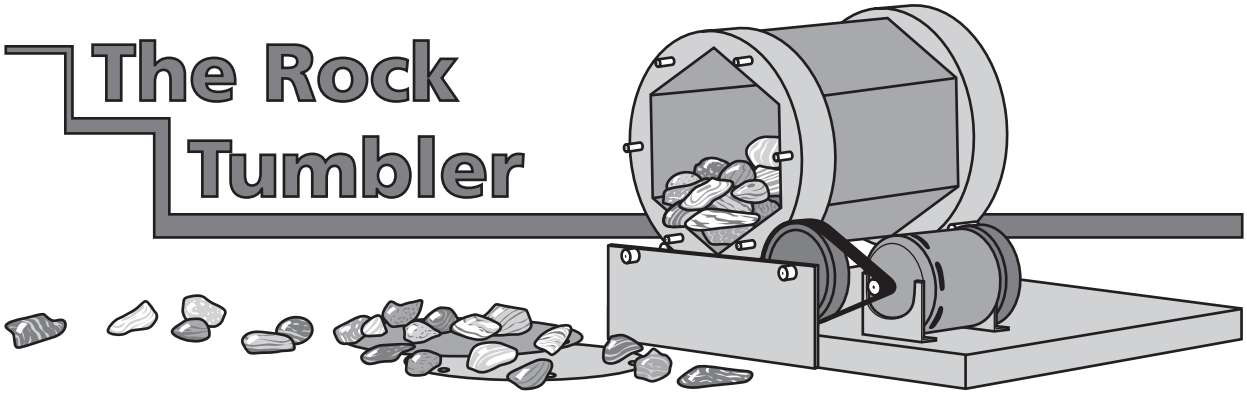
B Sometimes I have up to four soccer games each week.

C However, I have learned that planning ahead and setting goals helps me be successful with both activities.

D Using these same skills will enable me to be an effective math tutor.

Directions **Read the poem and answer Numbers 60 through 68.**

The Rock Tumbler



"They're diamonds in the rough!"
Aunt Helen says with excitement.
She wants me to see what she sees
in this handful of ordinary rocks,
but the best I can do is nod
and try to act grateful
for her strange and unexpected gift.

Mixing doubt with curiosity,
I put the rocks, the coarsest grit, and water
into the barrel and seal the lid.
I lay the tumbler in its base and plug it in.
Immediately, the barrel turns, the tumbling begins,
and the restless, rumbling rocks
fall over themselves.

After one whole week of waiting, I pry open the lid
and find the rocks transformed.
I smile at their slightly smoother surfaces.
"Look!" I say, showing my older sister.
But she just shrugs, unimpressed,
clearly unacquainted with
their formerly dull appearance.

Go On ▶

Time is like a rock tumbler, turning slowly.
Each Saturday, the rocks are my surprise.
They blink up at me like new jewels
and catch the light as I wash them,
return them to the tumbler
with a fourth and final grit,
and set them in motion again.

All week, the tumbler's hopeful turnings
echo in my ears, calling to me.
Opening the lid, I marvel at the shiny gems inside.
Who would have thought
a handful of plain old rocks
could turn out to be
"diamonds in the rough"?

60 **Read the dictionary entry.**

> **unacquainted** (adjective) **1.** unaware of one's surroundings **2.** uninformed of a situation **3.** unfamiliar with a subject or idea **4.** not previously introduced to a person

Now read Lines 18 through 21 from the poem.

> *"Look!" I say, showing my older sister.*
> *But she just shrugs, unimpressed,*
> *clearly unacquainted with*
> *their formerly dull appearance.*

Which dictionary definition is used in the lines?

F Definition 1

G Definition 2

H Definition 3

J Definition 4

61 **What is the implied theme of the poem?**

A It is best to listen to family members.

B Simple discoveries deserve appreciation.

C Discovering beauty is sometimes difficult.

D Careful thinking is the best way to solve problems.

62 **Which line best indicates that the poem is written in first-person point of view?**

F Aunt Helen says with excitement.

G Immediately, the barrel turns, the tumbling begins,

H After one whole week of waiting, I pry open the lid

J and set them in motion again.

63 **Which event is least likely to occur in the future?**

A The speaker will lose interest in the rocks.

B The speaker will put the best rocks on display.

C Aunt Helen will continue to tumble new rocks.

D Aunt Helen will teach others how to tumble rocks.

Go On ▶

64 **Read Lines 13 and 14.**

and the restless, rumbling rocks
fall over themselves.

These lines contain an example of which sound device?

F accent

G rhyme

H alliteration

J repetition

65 **The poet most likely wrote this poem to**

A entertain readers with a family story.

B share a thoughtful experience with readers.

C persuade readers to become interested in rocks.

D explain to readers how rock tumblers work.

66 **Read the analogy.**

*Doubt is to hesitation as curiosity is to*_____.

Which word best completes the analogy?

F enjoyment

G acceptance

H understanding

J exploration

67 **Tumbling rocks enables the speaker to**

A appreciate the aunt's gift.

B understand the aunt's past.

C discover a new way of learning.

D make the weekends pass quickly.

68 **Read Lines 29 and 30.**

All week, the tumbler's hopeful turnings
echo in my ears, calling to me.

The poet uses personification to indicate that

F the rock tumbler is noisy.

G the rocks do not stop turning.

H the speaker is eager to see the rocks.

J the speaker likes to hear the rock tumbler.

Go On ▶

Directions **Terry wrote this rough draft of a report. It contains mistakes. Read the report and answer Numbers 69 through 77.**

(1) It has been over thirty years since the invention of Post-It® notes—those little colored slips of paper used for many purposes. (2) These sticky notes, as people often call them, can be used to mark a place in a book. (3) They can be used to attach a note to a report being turned in to a teacher. (4) They can even be used to post a reminder note in a place where it will be noticed, like on a door. (5) Many people question how these unique sticky notes were invented. (6) The answer is surprising because the discovary was actually an accident.

(7) In 1968, scientist Spencer Silver was working with different types of adhesives, or glues. (8) Dr. Silver was trying to develop new products for a company that created and sold clear tape. (9) One particular adhesive just would not stick for long periods of time. (10) The glue would stick temporarily, but it could be peeled off most easily. (11) Dr. Silver passed the invention around the company to see if anyone could find a use for it. (12) No one could imagine a way to use an adhesive that did not stick to a surface permanently.

(13) Six years later Art Fry another scientist with the same company became frustrated while singing with his choir. (14) The piece of paper he was using to mark his place on his music kept falling out. (15) Fry wished he had something that would make the paper stay in place. (16) He remembered the unusual adhesive Dr. Silver had passed around at work six years earlier. (17) Fry wondered "Would it be possible to use the adhesive after all"?

(18) It turned out to be quite possible! (19) Applying the adhesive of a piece of paper to the back made the paper stick wherever it was placed. (20) However, it did not stick permanently. (21) The paper could be easily removed. (22) Thus the sticky note was born. (23) Now, after thirty years, many people can't imagine living without sticky notes.

69 **Read Sentence 10.**

The glue would stick temporarily, but it could be peeled off most easily.

What is the correct way to write the underlined part of the sentence?

A easier

B easily

C more easier

D correct as is

70 **Read Sentence 6.**

The answer is surprising because the discovary was actually an accident.

Which underlined word is spelled incorrectly?

F surprising

G discovary

H actually

J accident

71 **Which group would most enjoy reading Terry's report?**

A students interested in learning about inventions

B singers interested in improving their performances

C scientists interested in finding new ideas for inventions

D teachers interested in finding ways to inspire students

Go On ▶

72 **Read Sentence 17.**

Fry wondered "Would it be possible to use the adhesive after all"?

Choose the correct way to revise the sentence.

F "Fry wondered, Would it be possible to use the adhesive after all?"

G Fry wondered Would it be possible to use the adhesive after all?

H Fry wondered, "Would it be possible to use the adhesive after all?"

J Fry wondered "Would it be possible to use the adhesive after all?"

73 **Read Sentence 13.**

Six years later Art Fry another scientist with the same company became frustrated while singing with his choir.

Choose the revision that correctly uses commas.

A Six years later, Art Fry another scientist with the same company, became frustrated while singing with his choir.

B Six years later Art Fry, another scientist with the same company became frustrated while singing, with his choir.

C Six years later Art Fry, another scientist, with the same company became frustrated, while singing with his choir.

D Six years later, Art Fry, another scientist with the same company, became frustrated while singing with his choir.

74 **Which title is best for Terry's report?**

F Stuck, but Not Forever

G Paper Problems

H Sticky Notes: Then and Now

J Sticky Notes: Better Than Ever

75 **The purpose of this report is to**

A persuade the reader to use sticky notes.

B describe different ways people can use sticky notes.

C inform the reader about how sticky notes were invented.

D explain why sticky notes are helpful.

76 **Read Sentences 15 and 16.**

Fry wished he had something that would make the paper stay in place. _____, he remembered the unusual adhesive Dr. Silver had passed around at work six years earlier.

Which transition word best fills in the blank?

F Also

G Suddenly

H Again

J Therefore

Go On ▶

77 **Terry wants to add another fact to his report. Which fact best supports key ideas in his report?**

A Sticky notes did not sell well at first.

B The most popular sticky notes are three-inch squares.

C Some artists create murals made entirely of sticky notes.

D Sticky notes do not leave any marks when they are removed.

Directions **Read and answer Numbers 78 through 83.**

78 **Look at the photograph.**

From studying the photograph, a viewer can conclude that the ice skaters

F are used to skating in front of thousands of people.

G have never practiced with each other before.

H have never skated in a major competition.

J have trained many hours in order to perform.

Go On ▶

79 **Read these instructions.**

Make Your Own Graphic T-Shirt

1. *Place transfer face down on T-shirt and iron over with hot iron.*
2. *Create design on computer and print out on iron-on transfer paper.*
3. *Let iron-on transfer cool.*
4. *Place T-shirt on heat-resistant hard surface.*
5. *Peel iron-on paper back slowly to reveal your self-designed graphic T-shirt.*

What is the correct order for this project?

A 5, 2, 1, 4, 3

B 4, 1, 2, 3, 5

C 2, 4, 1, 3, 5

D 2, 3, 1, 5, 4

80 **Which member in a group is responsible for taking the official notes during group meetings?**

F reporter

G information gatherer

H recorder

J timekeeper

81 **Study the sign in the photograph.**

The sign communicates the message that

A the beach owners are looking for lifeguards to hire.

B it is unsafe to swim in the water nearby.

C people should sign up for swimming lessons.

D there may be dangerous animals in area waters.

Go On ▶

82 **Read the poem.**

Crispy, crunchy, autumn leaves
Laugh beneath my feet,
Dancing with the autumn breeze
Into piles where they meet,
Bustling crowds of red and gold—
Whoever said fall leaves are old?

What is the rhyme pattern of this poem?

F aabbac

G abcabc

H aabbcc

J ababcc

83 **Look at the photograph.**

© Toddkuhns/Dreamstime #21308095

Based on this photograph, a viewer can conclude that the boy is

A strong.

B imaginative.

C talented.

D energetic.

STOP

DO NOT

MARK

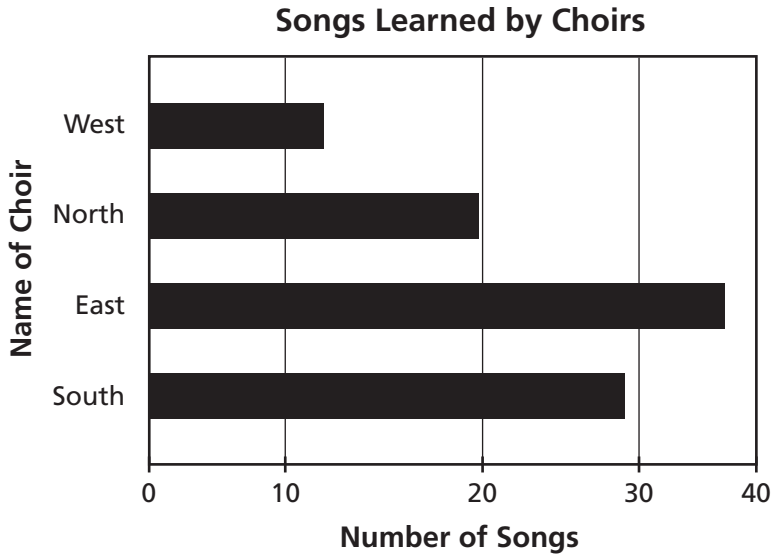
ON THIS

PAGE

Mathematics

Part 1

1 The graph below shows the number of songs learned by each of four choirs.



Which feature of the graph could be misleading?

A The names of the choirs should be ordered from the least to the greatest number of songs.

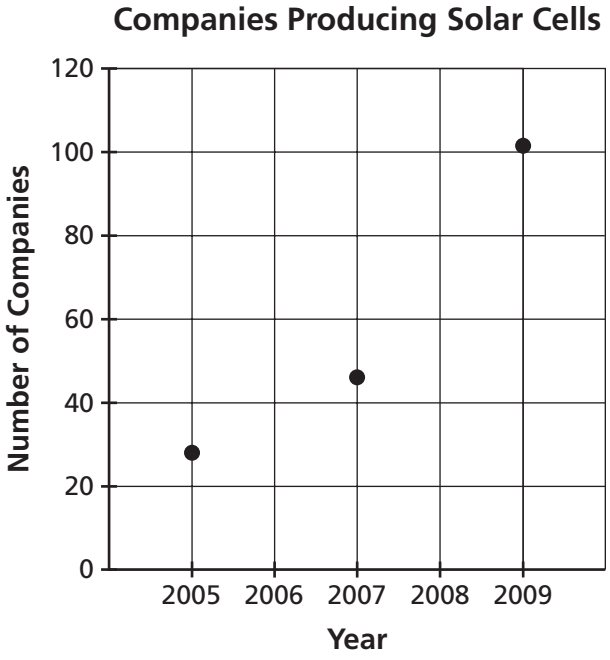
B The spacing of the labels on the horizontal axis is not consistent.

C The scale of the horizontal axis only shows increases of 10.

D The title does not include the type of songs learned.

Go On ▶

2 The graph below shows the number of companies producing solar cells in the United States for each of three years from 2005 to 2009.



The number of companies increased each year from 2005 to 2009. Which statement can be true?

F The number of companies increased by 20 from 2007 to 2008.

G The number of companies increased by 60 from 2007 to 2008.

H The number of companies in 2008 was the same as the number of companies in 2006.

J The number of companies in 2009 was the same as the number of companies in 2008.

3 Which expression is equivalent to $12(x + 3) + 8x + 12$?

A $20x + 48$

B $20x + 15$

C $44x + 12$

D $48x + 20$

4 Jessica used fence panels that were $3\frac{3}{4}$ inches wide to build a gate. The gate was 5-feet wide and had no space between the panels. What was the total number of panels Jessica used?

F 20 panels

G $18\frac{3}{4}$ panels

H 16 panels

J $8\frac{3}{4}$ panels

5 A plant grew to $3\frac{2}{5}$ times its original height. What percentage is equivalent to $3\frac{2}{5}$?

A 3.25%

B 34%

C 325%

D 340%

6 The price of a CD player was $45. During a sale, this price was reduced by $15. Which integer best represents this price reduction?

F +30

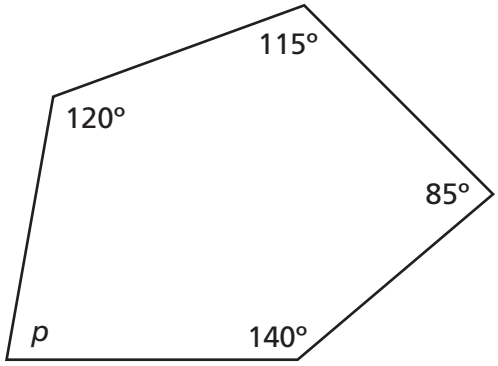
G +15

H −30

J −15

Go On ▶

7 What is the measure of Angle *p* in the figure below?



A 80°

B 100°

C 160°

D 260°

8 The list below shows the costs of the school supplies Lea will buy.

- 1 calculator for $13.95
- 7 binders for $1.50 each
- 1 package of markers for $3.00

She has already saved $16.50 to spend on these supplies. How much more money does Lea need to buy all of these supplies?

F $1.95

G $2.55

H $10.95

J $18.45

9 Carl has a total of 172.25 ounces of tea leaves. He filled individual bags each with 5.3 ounces of tea leaves. Which value best represents the total number of bags Carl filled with tea leaves?

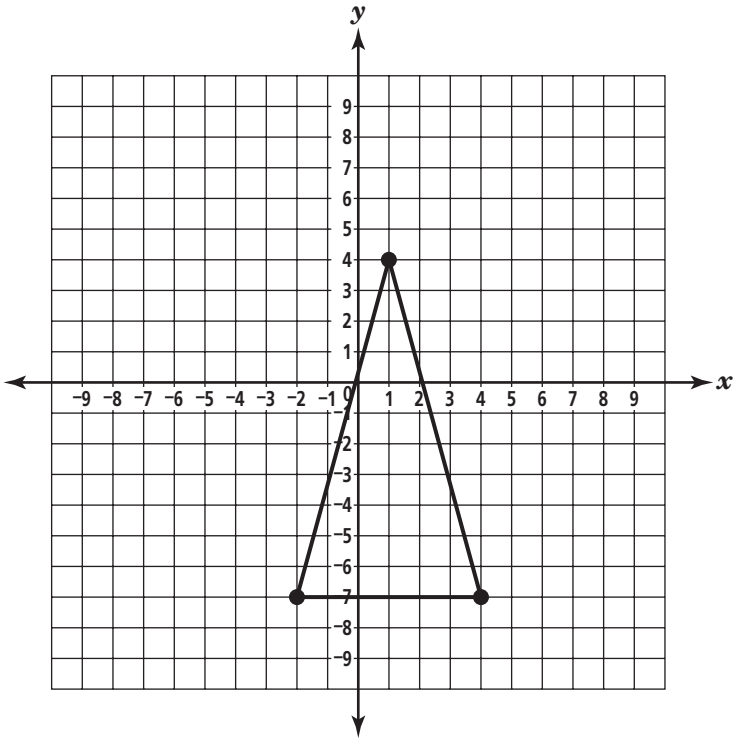
A 3.25

B 32.5

C 325

D 3,250

10 A figure is shown on the coordinate grid below.



Which ordered pair best represents the location of a vertex of this figure?

F $(4, -7)$

G $(2, -7)$

H $(-7, 4)$

J $(-7, 2)$

Go On ▶

11 Mr. Mendoza needs to buy 17 gallons of milk to make ice cream. Each gallon of milk costs $3.21. Which is the best estimate of the total cost of these gallons of milk?

A $80

B $68

C $51

D $20

12 On average, Lance sends 7.85 instant messages per day. At this rate, which is closest to the number of instant messages he sends in a 7-day period?

F 1

G 15

H 49

J 55

13 Amy shared $\frac{3}{4}$ of a pound of grapes with some friends. Each friend received $\frac{1}{6}$ of the grapes.

What was the total amount of grapes each friend received?

A $\frac{1}{8}$ pound

B $\frac{2}{9}$ pound

C $\frac{1}{4}$ pound

D $\frac{7}{12}$ pound

14 What value of t makes this equation true?

$$6t + 12 = 36$$

F 2

G 4

H 8

J 18

15 Milton traced a circle that has a radius of 9 centimeters.

$$\text{Area} = \pi r^2$$

$$\pi \approx 3.14$$

Which measurement is closest to the area of this circle?

A 28.26 square centimeters

B 56.52 square centimeters

C 254.34 square centimeters

D 798.63 square centimeters

16 Raul hikes 11 kilometers during the first 2 hours of his trip. At this rate, what is the total number of kilometers he could hike during a 10-hour period?

F 22 kilometers

G 55 kilometers

H 110 kilometers

J 220 kilometers

Go On ▶

17 Which expression has the same value as $8 \cdot 3 + 5$?

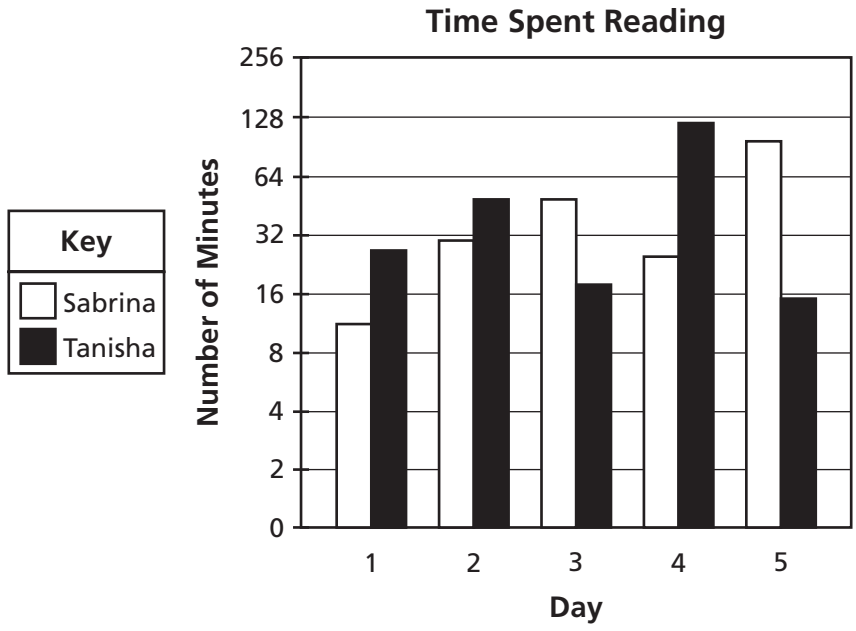
A $8 \cdot 3 \cdot 5$

B $8 + 3 + 5$

C $8 \cdot 8 \cdot 8 \cdot 5$

D $8 + 8 + 8 + 5$

18 The graph below shows the number of minutes Sabrina and Tanisha spent reading on each of five days.



Which statement describes a feature of the graph that might be misleading?

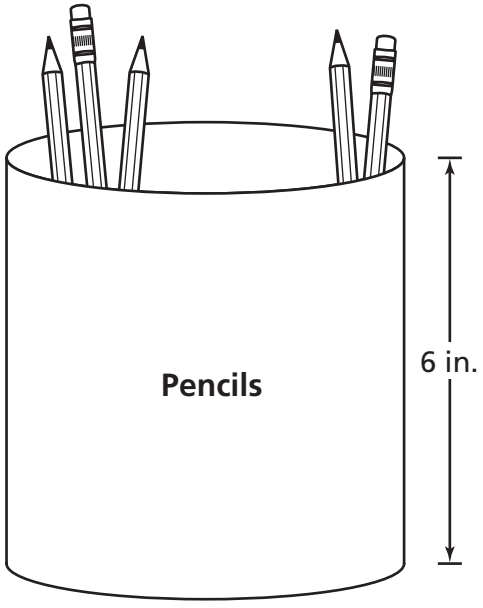
F The title of the graph does not use the names of the readers.

G The number of minutes represented by each interval is inconsistent.

H The title should specify that only two people are represented in the graph.

J The bars representing the number of minutes on each day are too close together.

19 Mr. Murphy keeps pencils in a cylindrical container. The diameter of the container is 5 inches, and the height of the container is shown below.



$\boxed{\text{Volume} = \pi r^2 h}$

$\boxed{\pi \approx 3.14}$

Which measurement is closest to the volume of this container?

A 117.75 cubic inches

B 94.2 cubic inches

C 58.875 cubic inches

D 47.1 cubic inches

Go On ▶

20 Which equation correctly represents the distributive property?

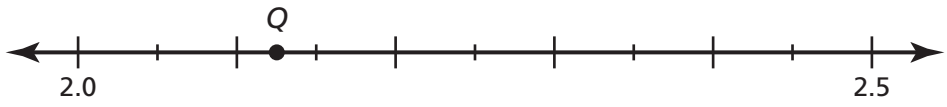
F $(3 + 6) + 4 = 3 + (6 + 4)$

G $3 \times (6 + 4) = (3 \times 6) + (3 \times 4)$

H $4 \times (3 + 6) = (4 \times 3) + (3 \times 6)$

J $(3 + 4) + 6 = 6 + (3 + 4)$

21 Which value is best represented by Point *Q* in the number line below?



A 2.125

B 2.15

C 2.225

D 2.25

22 Mr. Washington will make 7 batches of fresh pasta. He will use $3\frac{1}{3}$ of flour for each batch. How many cups of flour will Mr. Washington use altogether?

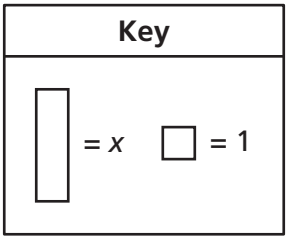
F $4\frac{1}{3}$ cups

G $10\frac{1}{3}$ cups

H $21\frac{1}{3}$ cups

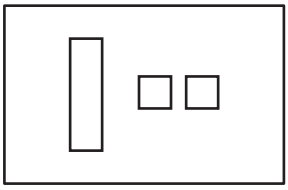
J $23\frac{1}{3}$ cups

23 Look at the key below.

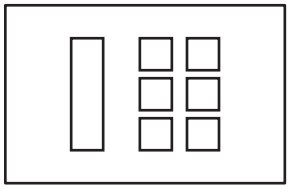


Which model represents the expression $3(x + 2)$?

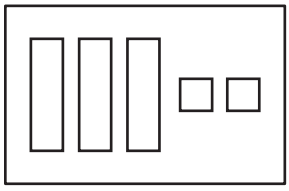
A



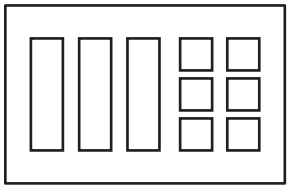
B



C



D



24 Mr. Orland earns $16 for each wooden sign that he makes and $20 for each vinyl banner that he makes. Yesterday, he made 5 wooden signs and 2 vinyl banners. Which equation can be used to determine *m*, the total amount of money, in dollars, Mr. Orland earned from the signs and vinyl banners he made yesterday?

F $m = (16 + 20) \times (2 + 5)$

G $m = (16 \times 20) + (2 \times 5)$

H $m = (16 \times 5) + (20 \times 2)$

J $m = (16 + 5) \times (20 + 2)$

25 Mr. Hansen is conducting a survey to determine how well the new mayor of a town is doing her job. Which group can Mr. Hansen use to produce results that are the least biased?

A all the people who work for or who voted for the mayor

B fifty people chosen at random from each section of town

C all the people in the town who volunteer at the high school and middle school

D fifty people who have recently written letters to the newspaper about the mayor

26 Gloria has 6 boxes of wood flooring. Each box contains enough flooring to cover an area of 22.6 square feet. If Gloria does not waste any of the wood flooring, which estimate is closest to the total number of square feet that will be covered when all of this wood flooring is installed?

F 120 square feet

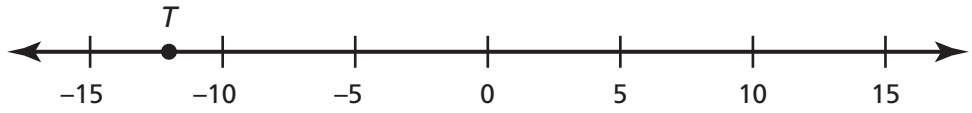
G 125 square feet

H 138 square feet

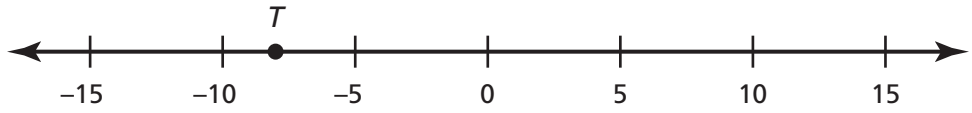
J 150 square feet

27 On Tuesday, the low temperature in a city was -8°F. On which number line does Point *T* best represent -8?

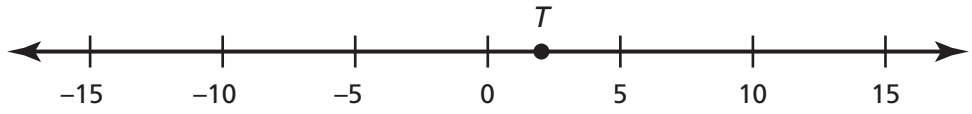
A



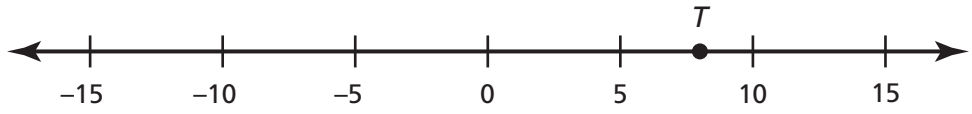
B



C



D



28 Which expression represents "five more than the product of six minus a number *n* and three"?

F $5 + 6 - n \cdot 3$

G $5 + 6 \cdot n - 3$

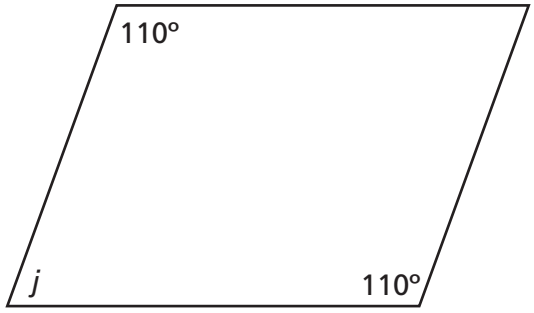
H $5 + (6 - n) \cdot 3$

J $5 + 6 - (n \cdot 3)$

STOP

Part 2

29 Two of the interior angle measures of a parallelogram are shown below.



What is the measure of Angle *j* ?

A 250°

B 140°

C 110°

D 70°

30 Which equation correctly represents the distributive property?

F $5(2+6)=5\times2+5\times6$

G $5+(2+6)=(5+2)+6$

H $5\times2\times6=5\times6\times2$

J $5+(2+6)=5+(2+3+3)$

31 Mr. Villarreal wanted to determine if customers would like ice cream to be sold at his convenience store. He went to a nearby ice cream parlor and surveyed 75 people to determine if the customers at the parlor would be in favor of him selling ice cream at the convenience store. Which statement best explains why this sample group may be biased?

A The sample group had members who all came from one ice cream parlor.

B Those in the sample group are more likely to like ice cream.

C Those in the sample group are likely to have no opinion.

D The sample group had only 75 members.

32 Shawna has $\frac{7}{6}$ cups of pretzels to make trail mix. She will put $\frac{1}{3}$ of a cup of pretzels in each bag that she makes. What is the total number of bags of trail mix Shawna can make with this amount of pretzels?

F $\frac{7}{18}$

G $\frac{2}{7}$

H $\frac{7}{6}$

J $\frac{7}{2}$

Go On ▶

33 During one year, Mrs. Laymon sent 484 text messages.

- This number was $\frac{1}{3}$ the number of text messages her son sent during the same year.
- Mrs. Laymon sent about the same number of text messages each month, as did her son.

Which is the best estimate of the total number of text messages Mrs. Laymon and her son sent during one month of this year?

A 30

B 50

C 120

D 160

34 Ms. Ling conducted a survey to determine whether the price per gallon of gas influenced the type of transportation used by people in her town. She surveyed the driver of every fifth motorcycle coming into a gas station. Based on this information, which statement is the most reasonable?

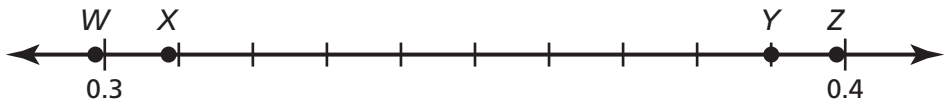
F The sample is not biased because Ms. Ling assumed the driver decided the mode of transportation that was used.

G The sample is not biased because Ms. Ling may not have surveyed an equal number of men and women.

H The sample is biased because Ms. Ling's survey of every fifth driver was too random.

J The sample is biased because Ms. Ling surveyed only people who used motorcycles.

35 Which point on the number line below best represents 0.39?



A Point *W*

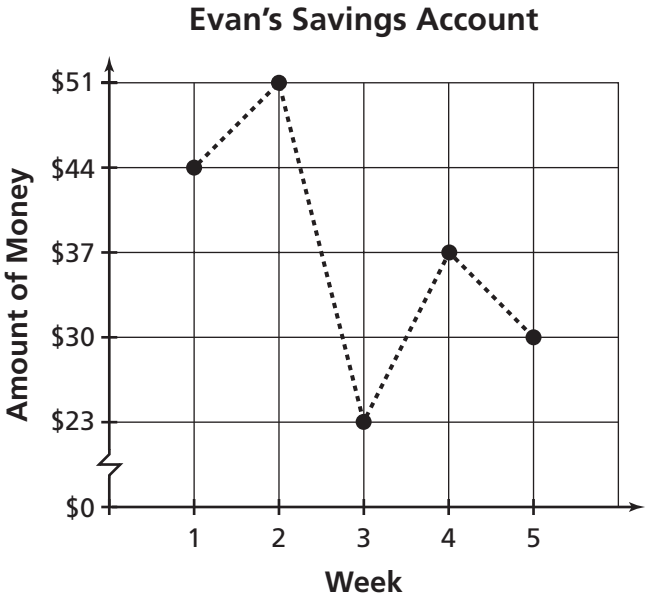
B Point *X*

C Point *Y*

D Point *Z*

Go On ▶

36 The graph below shows the amount of money in Evan's savings account over a five week period.



Which integer best describes the change in the amount of money in Evan's account between Week 2 and Week 3?

F -74

G -28

H 28

J 74

37 Which expression has the same value as $5.4(3+1)$?

A $5.4 \times 3 + 1$

B $5.4(1+3)$

C $3(5.4+1)$

D $3 \times 5.4 \times 1$

38 Mrs. Gonzales has $15\frac{1}{6}$ yards of material to make costumes for a school play. She will make 3 rabbit costumes that require $2\frac{1}{2}$ yards each and 4 deer costumes that require $2\frac{1}{3}$ yards each.

How many more yards of fabric does Mrs. Gonzales need to make all of the costumes?

F $1\frac{2}{3}$ yards

G $4\frac{5}{6}$ yards

H $10\frac{1}{3}$ yards

J $16\frac{5}{6}$ yards

39 Ms. Hollis spent \$10 on food each day for 5 days. During this time period, she also spent a total of \$61 on fuel for her car and \$85 to pay her electricity bill. Which equation could be used to determine t, the total amount of money, in dollars, Ms. Hollis spent during this time period?

A $t = 5 \times (10 \times 61) + 85$

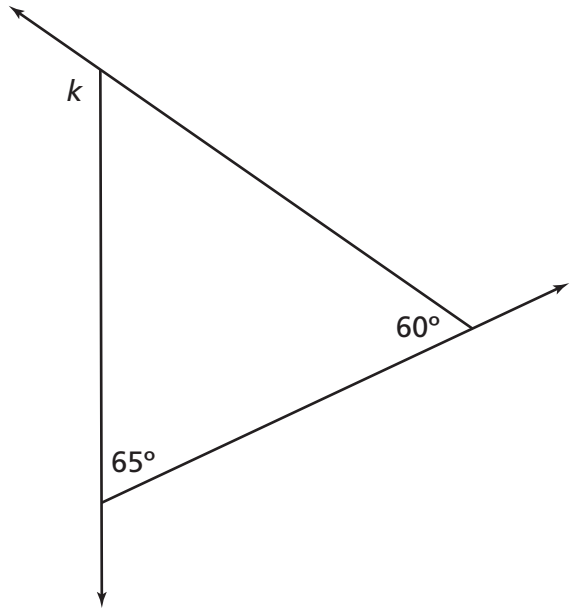
B $t = 5 \times (10 + 61) + 85$

C $t = 5 \times (10 + 61 + 85)$

D $t = 5 \times 10 + (61 + 85)$

Go On ▶

40 What is the measure of Angle *k* in the figure below?



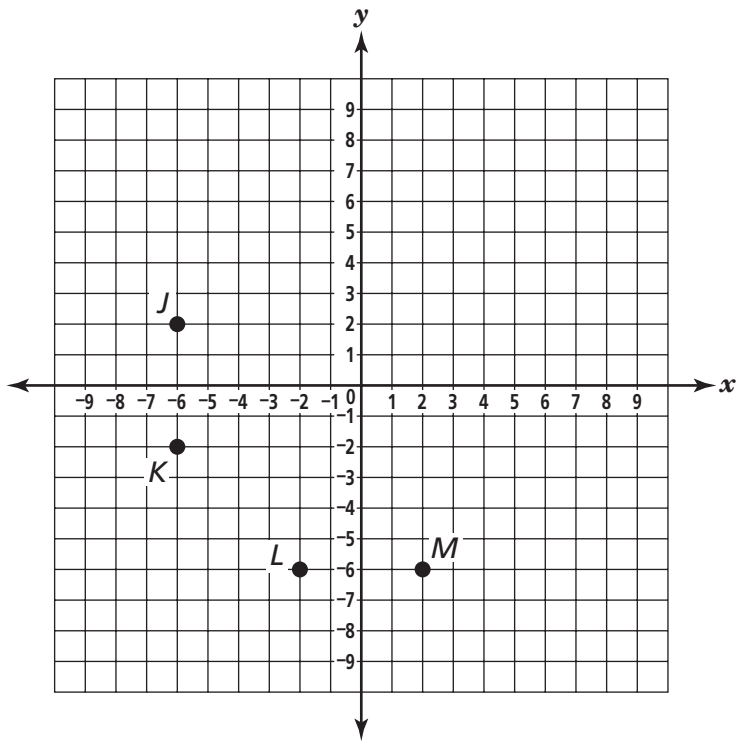
F 55°

G 115°

H 125°

J 235°

41 Which point best represents the ordered pair $(-2, -6)$ on the coordinate grid below?



A Point *J*

B Point *K*

C Point *L*

D Point *M*

42 What percentage is equivalent to $\frac{17}{20}$?

F 90%

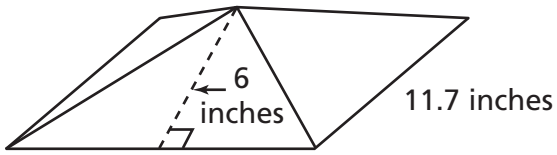
G 85%

H 20%

J 17%

Go On ▶

43 The slant height and the length of one edge of a square pyramid are shown below.



$$\text{Surface Area} = B + \frac{1}{2}lp$$

B = area of the base of the figure
l = slant height
p = perimeter of the base of the figure

What is the surface area of this square pyramid?

A 277.29 square inches

B 207.09 square inches

C 171.99 square inches

D 152.10 square inches

44 Mr. Lewis' oil-change shop can service 7 cars in 2 hours. At this rate, how many cars can his shop service in 50 hours?

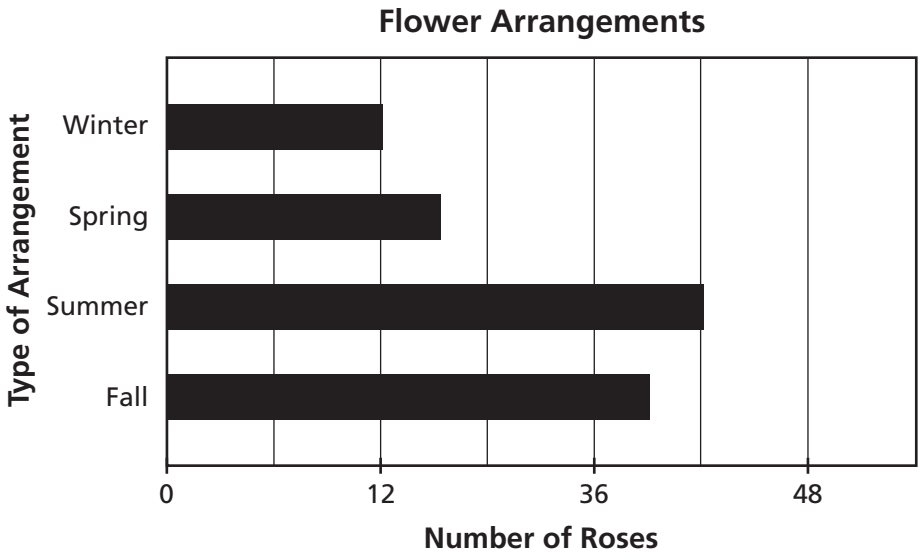
F 100

G 175

H 350

J 700

45 The graph below shows the number of roses used for different types of flower arrangements.



Shania looked at this graph and incorrectly concluded that half as many roses were used in the Spring arrangement as were used in the Summer arrangement. Which feature of this graph most likely led Shania to this conclusion?

A The horizontal scale is inconsistent.

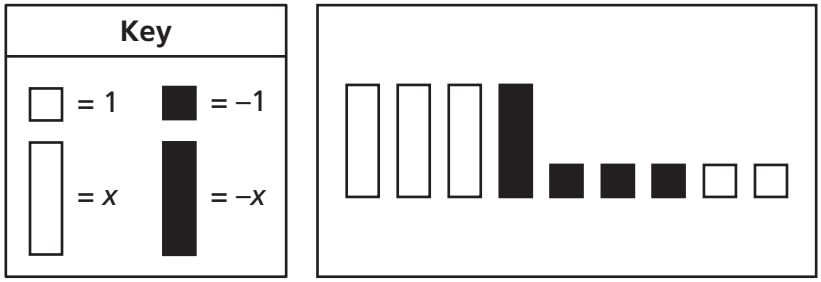
B The vertical labels should begin with Spring.

C The vertical label is inappropriate for the data.

D The horizontal label is missing a unit of measure.

Go On ▶

46 A model is shown below.



Which expression is represented by this model?

F $-2x + 5$

G $-2x - 1$

H $2x - 1$

J $2x + 1$

47 Look at the equation below.

$$2b + 1{,}000 = 1{,}300$$

What value of b makes this equation true?

A 150

B 600

C 650

D 1,150

48 Which description represents $10x + 4$?

F the product of x, ten, and four

G ten times the sum of x and four

H the sum of ten and four, x times

J four more than the product of ten and x

49 The circular face of a clock has a diameter of 30 centimeters (cm).

$$\text{Circumference} = \pi d$$

$$\pi \approx 3.14$$

Which measurement is closest to the circumference of the face of the clock?

A 47.1 cm

B 94.2 cm

C 188.4 cm

D 295.8 cm

50 The wingspan of the first butterfly Wally measured was 0.08 meter. The wingspan of the second butterfly he measured was 0.101 meter. What is the difference between the wingspans of the butterflies Wally measured?

F 0.021 meter

G 0.093 meter

H 0.103 meter

J 0.109 meter

Go On ▶

51 The table below shows lengths of time for each of the first 5 songs on Garrard's music player. The longest and shortest songs on his music player are listed in the table.

Songs on Music Player

Song	Amount of Time
1	3 minutes 35 seconds
2	1 minute 18 seconds
3	3 minutes 17 seconds
4	4 minutes 7 seconds
5	3 minutes 27 seconds

Based on this information, which is the best prediction of the total amount of time Garrard will take to listen to the next 3 songs?

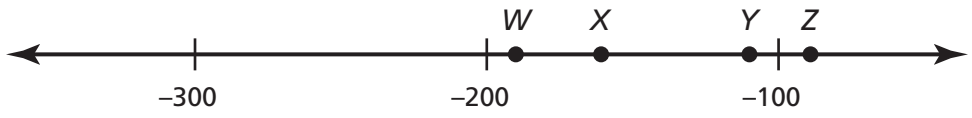
A 3 minutes 17 seconds

B 9 minutes 44 seconds

C 12 minutes 22 seconds

D 15 minutes 45 seconds

52 Which point best represents the integer −190 on the number line below?



F Point *W*

G Point *X*

H Point *Y*

J Point *Z*

53 Mrs. Kendal planned to spend $40 to take her children to the movies.

- She spent $28.00 on movie tickets.
- She spent $2.50 for each of 3 bags of popcorn.
- She spent $1.75 for each of 4 drinks.
- She spent $1.00 for a pickle.

Exactly how much more did Mrs. Kendal spend at the movies than she had planned?

A $7.75

B $6.75

C $3.50

D $2.50

54 A farmer sold cotton to two companies for $1.87 per pound. The farmer sold 500 pounds to Company A and 750 pounds to Company B. Which equation can be used to determine d, the total amount, in dollars, of the cotton sold to these two companies?

F $d = (500 \times 750) + 1.87$

G $d = (500 + 750) \times 1.87$

H $d = (500 + 1.87) \times (750 \times 1.87)$

J $d = (500 + 750) + (500 \times 1.87)$

Go On ▶

55 Charlene used all $16\frac{7}{8}$ inches of a silver chain to make 3 bracelets. Each bracelet was the same length. What was the length of each bracelet?

A $1\frac{7}{24}$ inches

B $5\frac{1}{3}$ inches

C $5\frac{5}{8}$ inches

D $7\frac{7}{8}$ inches

STOP

DO NOT

MARK

ON THIS

PAGE

DO NOT

MARK

ON THIS

PAGE

Science

Part 1

1 **The table below describes the orbits of three objects in the solar system.**

Orbits of Objects in the Solar System

Object	Orbit Description
1	Orbits a planet at a close distance
2	Orbits the sun in a nearly circular pattern
3	Orbits the sun in a highly elliptical pattern; object comes close to the sun and then returns to deep space

Object 3 most likely describes a

A moon.

B asteroid.

C comet.

D meteor.

2 **Students observed an apple falling from a tree to the ground. Which of these best identifies the type of energy an apple has because it is hanging from a tree?**

F chemical potential energy

G elastic potential energy

H gravitational potential energy

J nuclear potential energy

Go On ▶

3 **Some air temperature data near a coast are shown in the table below.**

Air Temperatures

Time	Air Temperature Over Land (°F)	Air Temperature Over Water (°F)
7 P.M.	78	80
8 P.M.	76	79
9 P.M.	74	79
10 P.M.	72	78

Which event is caused by these temperature differences?

A high tide

B lightning

C land breeze

D seasons

4 **Jupiter is the largest planet in the solar system. Why does Venus look larger than Jupiter in the night sky as viewed from Earth?**

F Venus is closer to Earth than Jupiter.

G Venus releases more heat than Jupiter.

H Some of the light produced by Jupiter is blocked by Earth.

J The composition of Jupiter makes it seem smaller than Venus.

5 **A ball rests on a shelf one meter above the ground. Which action will increase the kinetic energy of the ball while decreasing its potential energy?**

A rolling the ball along the shelf

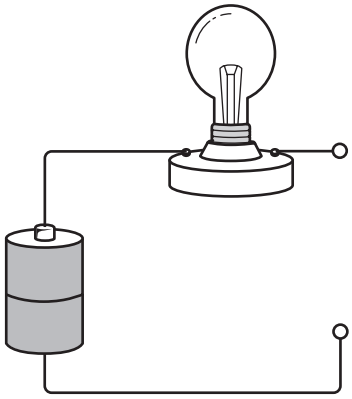
B dropping the ball off the shelf

C letting the ball rest on a shelf 0.5 meter above the ground

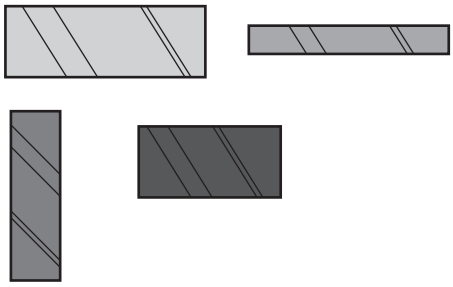
D lifting the ball to a shelf 2 meters above the ground

6 **A student builds an incomplete circuit with a battery, wires, and a light bulb, as shown in the diagram below.**

Incomplete Circuit



Metal Strips



The student completes the circuit by connecting the wires to one of four different metal strips. Each strip has a different ability to conduct electricity. The student observes the brightness of the light bulb with each type of metal strip. Which of these is the independent variable in this investigation?

F type of metal strip

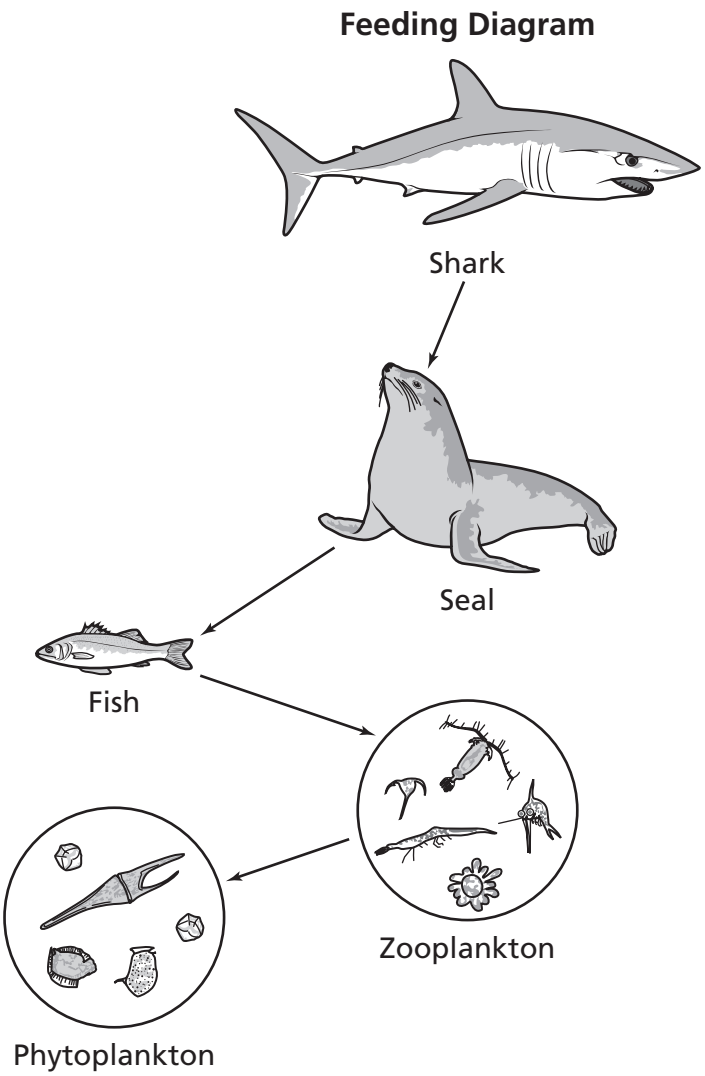
G brightness of light bulb

H type of battery

J thickness of wire

Go On ▶

7 **A feeding diagram is shown below.**



Which of these best describes the role of the shark in this feeding diagram?

A producer

B consumer

C decomposer

D prey

8 **Which motion of a solar system body takes the least amount of time?**

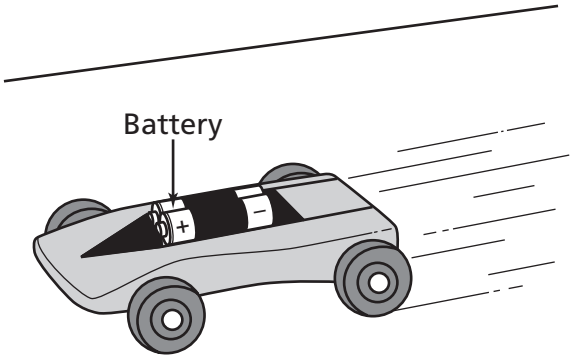
F Earth completing one rotation on its axis

G Earth completing one revolution around the sun

H the moon completing one revolution around Earth

J a comet completing one orbit around the sun

9 **A child is playing with a battery-operated toy car. The child closes the switch that operates the car.**



Which best describes the energy transformations that allow the car to move forward?

A chemical → electrical → mechanical

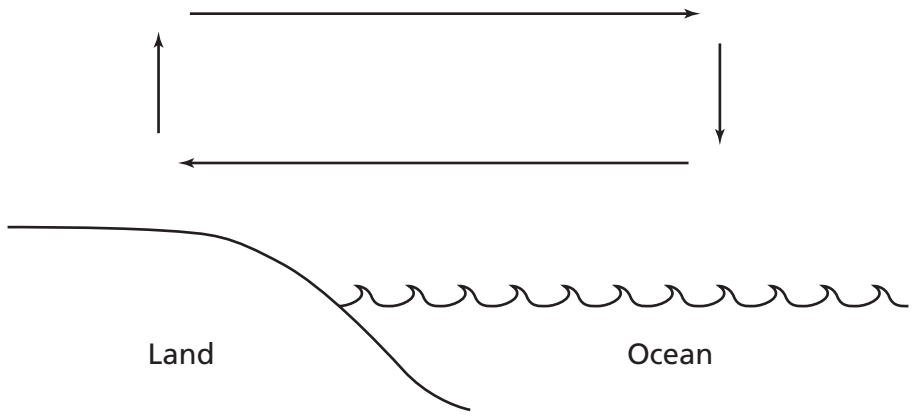
B electrical → chemical → thermal

C mechanical → chemical → sound

D thermal → electrical → chemical

Go On ▶

10 **The diagram shows a convection current near a coastline.**



What energy source formed this convection current in the atmosphere?

F gravity from the moon

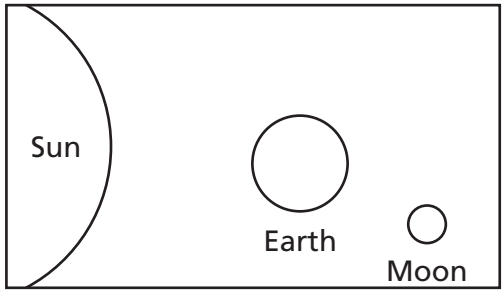
G heat from the sun

H rotation of Earth

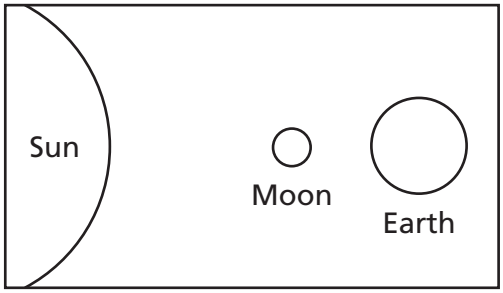
J action of tides

11 **The diagrams show the sun, the moon, and Earth as viewed from the north pole of Earth. In which diagram would a waxing gibbous moon be seen from Earth?**

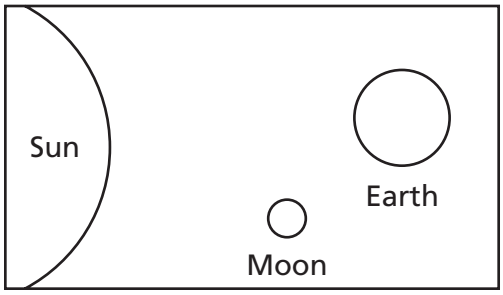
A



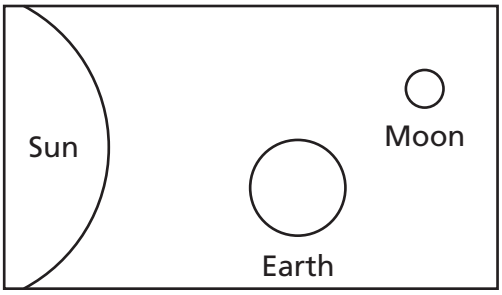
C



B



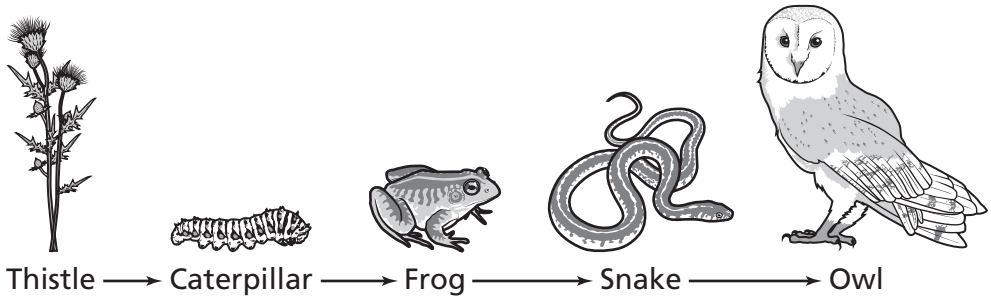
D



Go On ▶

12 **The diagram below shows a food chain.**

Food Chain



Which statement correctly describes energy flow through this food chain?

F The frog receives energy from the caterpillar.

G The snake receives energy from the owl.

H The thistle receives energy from the caterpillar.

J The caterpillar receives energy from the snake.

13 **A student drops a ball. As the ball falls, it loses 4.2 joules (J) of gravitational potential energy. The gravitational potential energy of the ball is then converted into a different form. About how much kinetic energy does the ball gain?**

A 2.1 J

B 4.2 J

C 8.4 J

D 16.8 J

14 **The diagram shows the sun, the moon, and Earth as viewed from above the North Pole.**

Which location on Earth is experiencing a high tide?

F 1

G 2

H 3

J 4

15 **A student in a science class wants to demonstrate elastic potential energy. Which are the best objects to use for this demonstration?**

A a rubber band and a weight

B a mass and an electronic balance

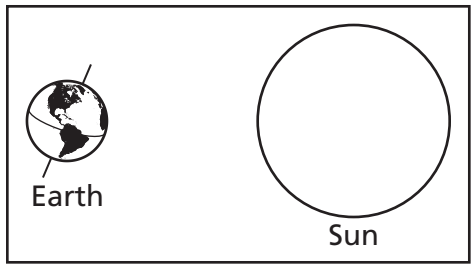
C a stack of books and a bookcase

D a ramp and three different toy cars

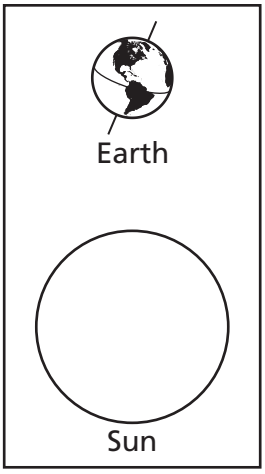
Go On ▶

16 **Which diagram shows the Southern Hemisphere experiencing winter?**

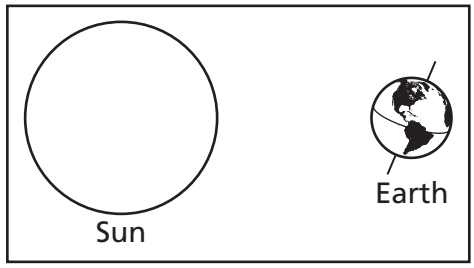
F



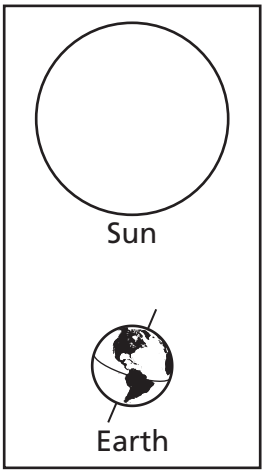
H



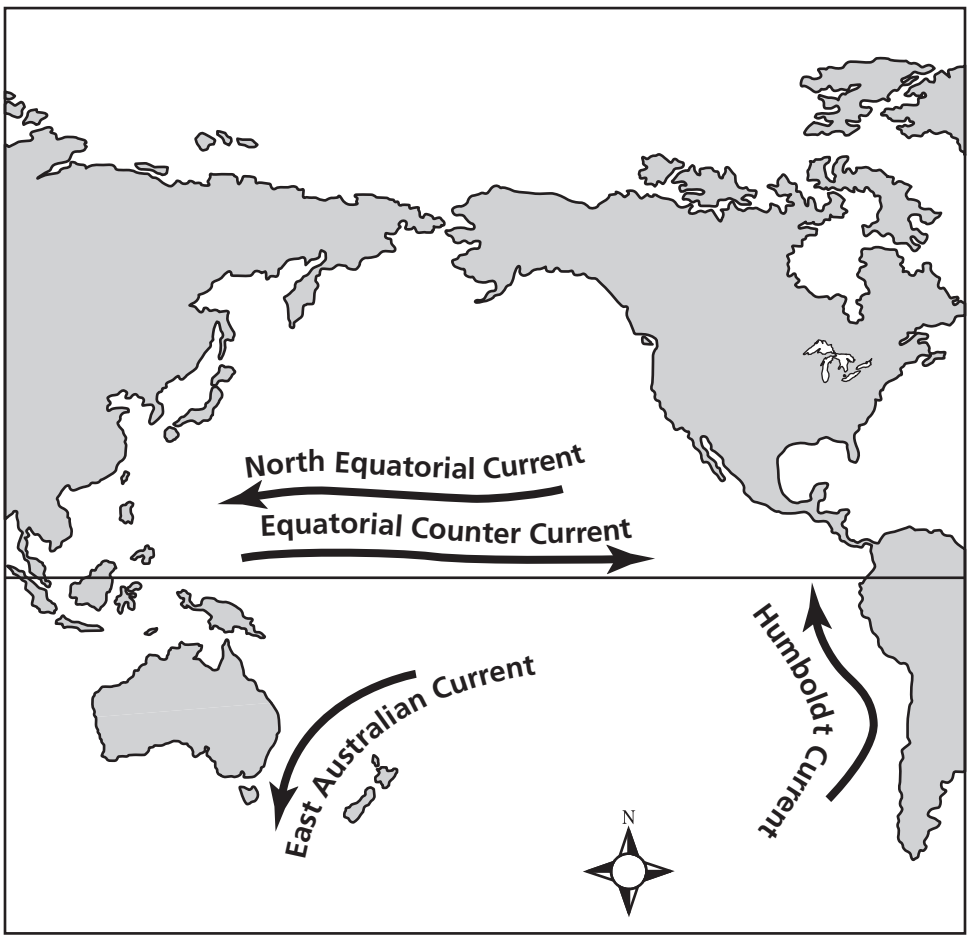
G



J



17 **The diagram below shows four ocean currents.**



Which of these best identifies a cold water current and explains its cause?

A North Equatorial Current, because it flows along the equator

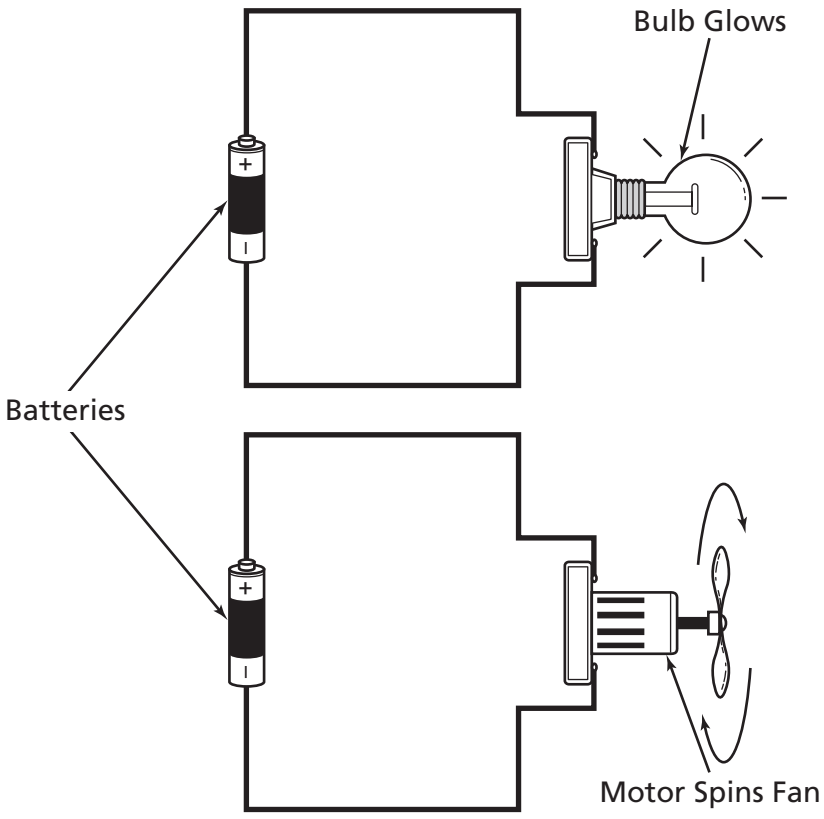
B Equatorial Counter Current, because it flows west to east

C East Australian Current, because it rotates in a counter-clockwise direction

D Humboldt Current, because it moves water from south of the equator back toward the equator

Go On ▶

18 **The diagram below shows two electrical circuits.**



Both of these circuits

F produce light energy.

G produce mechanical energy.

H transfer energy through wires.

J destroy energy over time.

19 **Which of these best describes the conditions for a solar eclipse?**

A Venus passes directly between the sun and Earth.

B The moon passes directly between the sun and Earth.

C The sun passes directly between the moon and Earth.

D Earth passes directly between the sun and Venus.

20 **Students collected weather data every two hours between 9 A.M. and 3 P.M., as shown in the table below.**

Weather Data

Time	Temperature (°C/°F)	Air Pressure (millimeters of mercury)	Wind Speeds (kilometers/hour)
9:00 A.M.	28/84	762	4
11:00 A.M.	33/91	758	6
1:00 P.M.	31/87	736	16
3:00 P.M.	25/77	730	20

Based on these data, what type of weather should the students predict for later in the afternoon?

F hot and dry

G calm with clearing skies

H freezing rain and snow

J windy with precipitation

Go On ▶

21 **Which object is a good conductor of electricity?**

A wooden stick

B glass rod

C rubber band

D silver coin

22 **Which of these is an abiotic factor in a grassland?**

F insects

G wildflowers

H sunlight

J rabbits

23 The table below lists data about four objects in the solar system.

Solar System Object Data

Object	What the Object Orbits	Length of Orbit	Diameter of Object (kilometers)
M	Sun	88 days	4,878
N	Sun	4.6 years	930
O	Planet	7.2 days	5,262
P	Sun	76 years	16

Based on the data in the table, which object is most likely a moon?

A M

B N

C O

D P

Go On ▶

24 **A scientist recorded wind speeds in two cities that are 500 kilometers apart over the same five-hour period. The data are shown in the table below.**

Wind Speed Data

Hour	City X Wind Speed (kilometers/hour)	City Y Wind Speed (kilometers/hour)
1	39	12
2	40	10
3	42	8
4	44	4
5	45	2

Which statement is best supported by the data in the table?

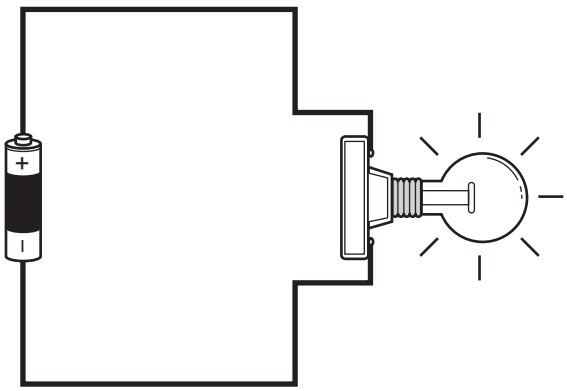
F Convection currents in City X were stronger than in City Y during this period.

G City X experienced clearing skies and City Y experienced a thunderstorm during this period.

H The air pressure in City X is normally higher than the air pressure in City Y.

J The winds are generally more variable in City X than the winds in City Y.

25 **The diagram shows a circuit with a battery and a bulb.**



While the bulb is producing light, which type of energy is decreasing in the battery?

A gravitational potential energy

B elastic potential energy

C chemical potential energy

D mechanical potential energy

26 **A company made a new type of solar panel. The new solar panel was designed to produce more electrical energy than an older solar panel. Which of these will best help the company find out if the new solar panel actually works as it was intended?**

F supply power to a building using only the new solar panel

G provide the new solar panel to business owners to test

H compare the electrical output of the new solar panel to the electrical output of the older solar panel at the same location

J compare the cost of manufacturing the new solar panel to the cost of manufacturing the older solar panel

Go On ▶

27 **In a certain biome, wildflowers and herbs are some of the most common plants. Bison and prairie dogs consume the wildflowers and herbs. Coyotes and eagles hunt the prairie dogs. Which biome is most likely being described?**

A coniferous forest

B temperate grassland

C tropical rain forest

D Arctic tundra

28 **Stars in the night sky are actually larger than the moon, yet they look smaller. Why do stars look smaller than the moon when viewed from Earth?**

F some of the light coming from stars scatters before it reaches Earth

G the sun reflects some light coming from stars back into space

H the moon blocks out parts of the stars

J stars are much farther away from Earth than the moon

29 **A tumbleweed is a common desert plant that detaches from its roots when it becomes dry. The dried tumbleweed is easily pushed by wind. What causes the wind to form?**

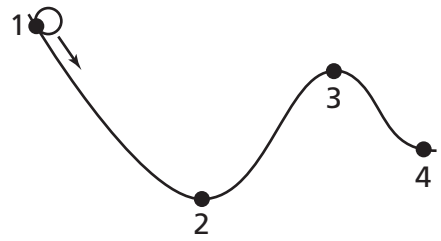
A uneven heating of the atmosphere

B revolution of the moon around Earth

C rapid movement of tectonic plates

D formation of clouds in the sky

30 **The diagram below shows a ball rolling along a path.**



At which point will the ball have the least gravitational potential energy and the most kinetic energy?

F 1

G 2

H 3

J 4

31 **A company that manufactures machine parts began an engineering design plan, as shown below.**

1. Identify how the machine part will be used.
2. ?
3. Produce a prototype of the machine part.

Which of these best replaces the question mark in Step 2?

A Test the final product.

B Improve the design of the prototype.

C Conduct research on machine parts that already exist.

D Start mass production of the machine part.

Go On ▶

32 **Blue-green algae are organisms that convert sunlight into food through photosynthesis. What is the role of blue-green algae in a food chain?**

F consumer

G scavenger

H producer

J decomposer

33 **About how long does it take Earth to revolve once around the sun?**

A one day

B one week

C one month

D one year

34 **Movement of ocean currents is mainly caused by**

F the magnetic field of Earth.

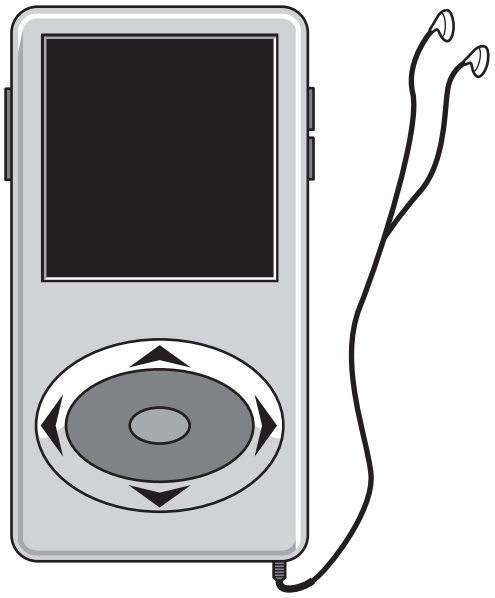
G temperature differences in the water.

H the gravitational pull from the sun.

J runoff of fresh water from land.

35 **A student listens to music with a digital music player, similar to the one shown below.**

Digital Music Player



Which best describes the energy transformations that take place in the music player?

A mechanical to sound to electrical

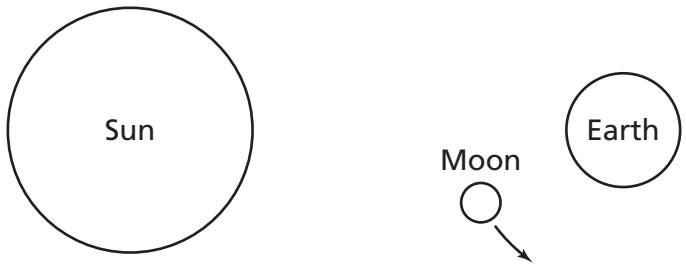
B sound to chemical to electrical

C chemical to electrical to sound

D electrical to chemical to sound

STOP

36 **The diagram shows the positions of the sun, the moon, and Earth at one point in time.**



What moon phase is viewed from the Northern Hemisphere of Earth at this point in time?

F first quarter

G last quarter

H waning gibbous

J waxing crescent

37 **Candle wax contains stored chemical energy. As a candle burns, the wax changes form. What happens to the chemical energy in the candle wax?**

A It is destroyed.

B It becomes a gas.

C It transforms into heat energy.

D It is reflected as light.

38 **A student collected the weather data recorded in the table below.**

Weather Data

Air Pressure	Rising
Temperature	70°F and rising
Humidity	32% and falling

What was the most likely weather condition at the time the student collected these data?

F cloudy

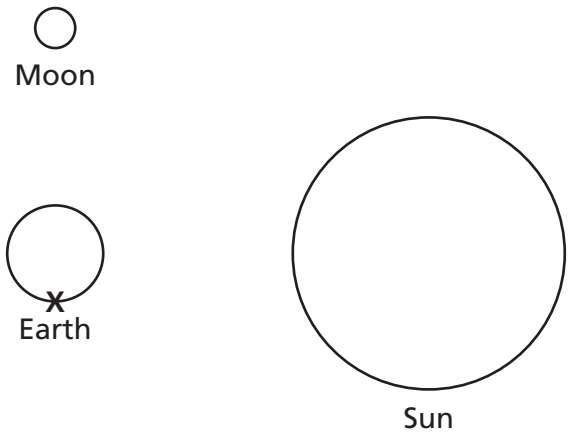
G clear

H snow

J rain

Go On ▶

39 **The diagram shows the sun, Earth, and the moon at one point in time.**



Which of these will most likely be observed at Point X?

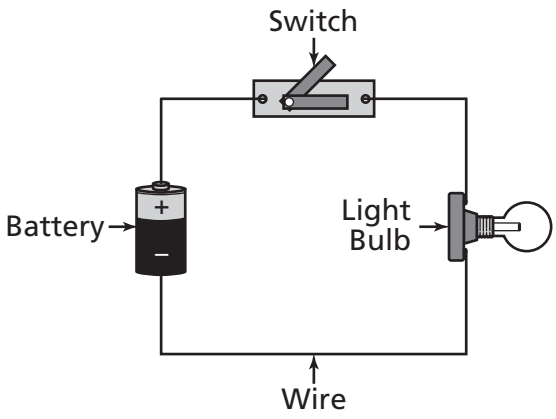
A full moon

B new moon

C neap tide

D spring tide

40 **A circuit contains a battery, a switch, wire, and a light bulb.**



When the switch is closed, what type of energy is involved in this circuit in order for the bulb to produce light?

F nuclear

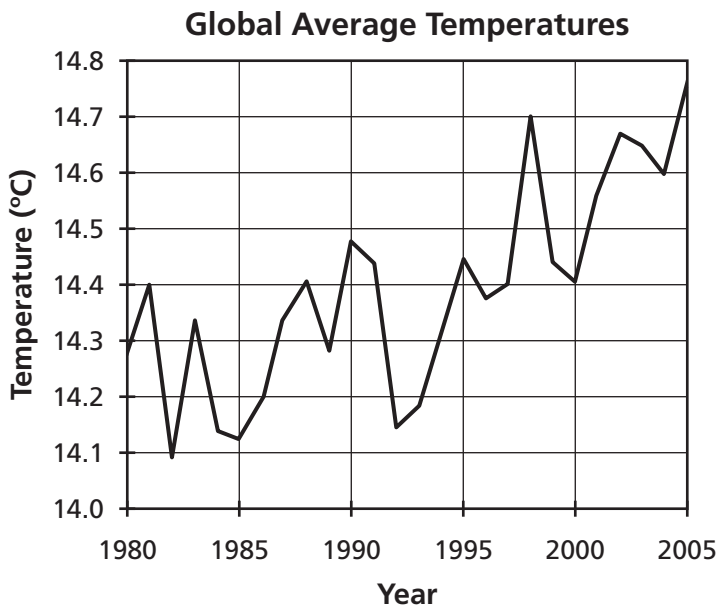
G sound

H solar

J electrical

Go On ▶

41 **A graph of global average temperatures is shown below.**



Which statement is best supported by the graph?

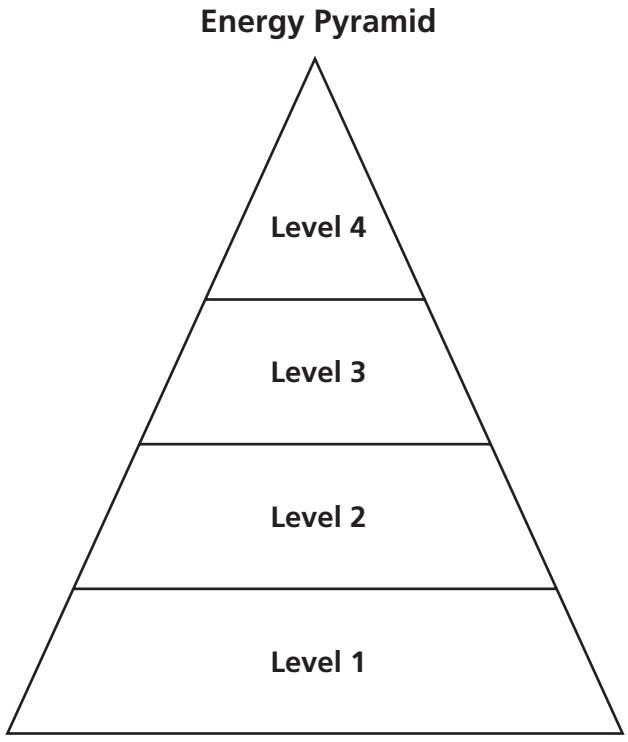
A The lowest global temperature was in 1992.

B The highest global temperature was in 1997.

C Average global temperatures decreased by 14°C from 1980–2005.

D Average global temperatures increased about 0.5°C from 1980–2005.

42 **An energy pyramid shows how energy flows through a community. The shape shows how the amount of energy available to the next level decreases.**



Which level of the pyramid must contain producers?

F Level 1

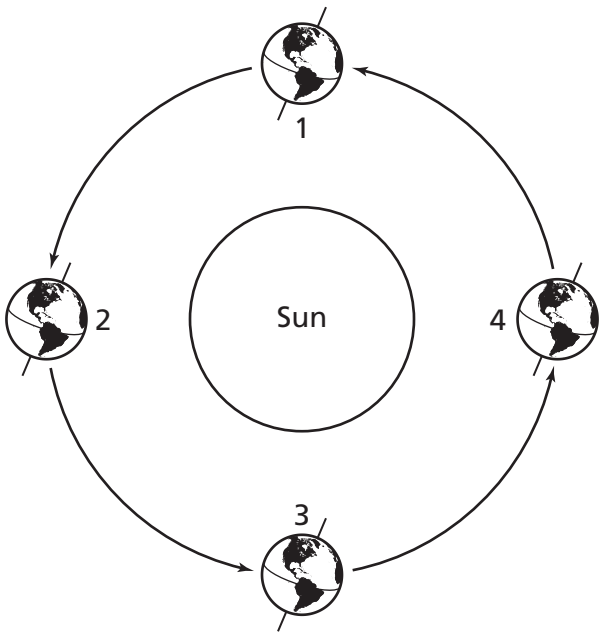
G Level 2

H Level 3

J Level 4

Go On ▶

43 **The diagram shows four positions of Earth while orbiting the sun.**



Spring in the Northern Hemisphere begins when Earth is at which position?

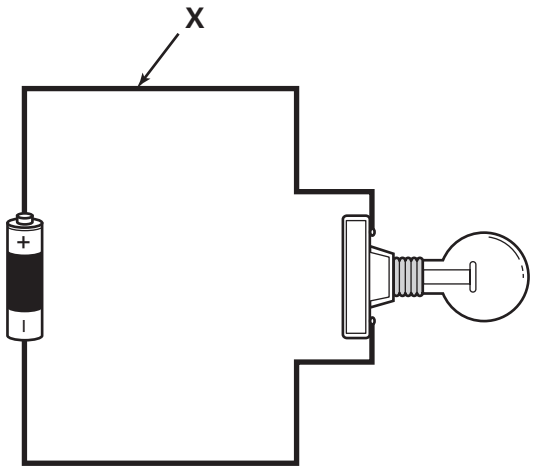
A 1

B 2

C 3

D 4

44 **A student builds a simple electrical circuit, as shown in the diagram below.**



Which material should be used for the part labeled X so that the bulb will produce light?

F wood

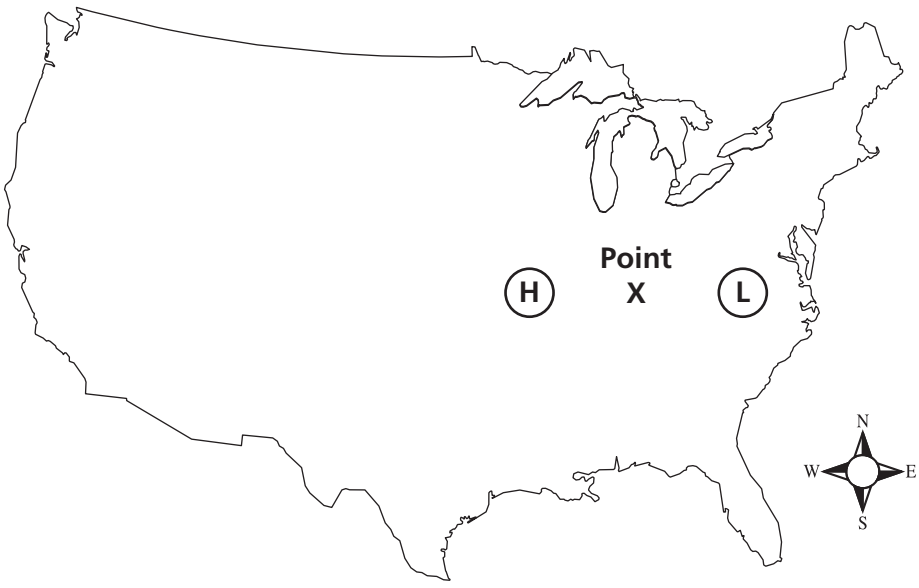
G copper

H plastic

J paper

Go On ▶

45 **The weather map shows an area of high (H) air pressure and an area of low (L) air pressure.**



What is the most likely wind direction at Point X?

A west to east

B north to south

C east to west

D southeast to northwest

46 **Which best describes a lunar eclipse?**

F The dark side of the moon faces Earth.

G The sun passes between the moon and Earth.

H Earth passes between the sun and the moon.

J Light traveling to Earth is blocked by the moon.

47 **Which of these are biotic factors found in freshwater biomes?**

A minerals

B sediments

C oxygen levels

D pond snails

48 **A plant converts sunlight energy into glucose. The glucose is a form of**

F kinetic energy.

G elastic energy.

H chemical potential energy.

J gravitational potential energy.

49 **Approximately how long is a complete lunar cycle?**

A 12 hours

B 24 hours

C 28 days

D 365 days

Go On ▶

50 **A student builds a circuit that connects batteries of different sizes to a doorbell. The student tests the doorbell circuit with the types of batteries shown in the table below.**

Doorbell Battery Test

Type of Battery	Number of Batteries	Diameter of Each Battery (millimeters)	Volts per Battery	Does Doorbell Ring?
AAA	1	10.5	1.5	No
AAA	2	10.5	1.5	Yes
AA	1	14.5	1.5	No
AA	2	14.5	1.5	Yes

Which statement is best supported by the data in the table?

F The doorbell will only ring if AA batteries are used.

G The doorbell will not ring if the circuit contains more than two AAA batteries.

H The doorbell will only ring if the total voltage of the batteries is greater than 1.5 volts.

J The doorbell will not ring if batteries smaller than 10.5 millimeters in diameter are used.

51 **Which best describes how often a high tide occurs at a specific location?**

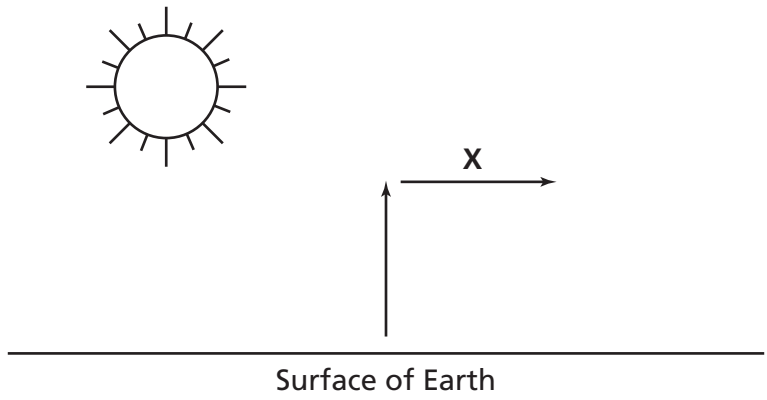
A twice each day

B twice each week

C twice each month

D twice each year

52 **Warm air rises as the sun heats the surface of Earth, as shown by the diagram below.**



The arrow labeled X most likely represents

F wind.

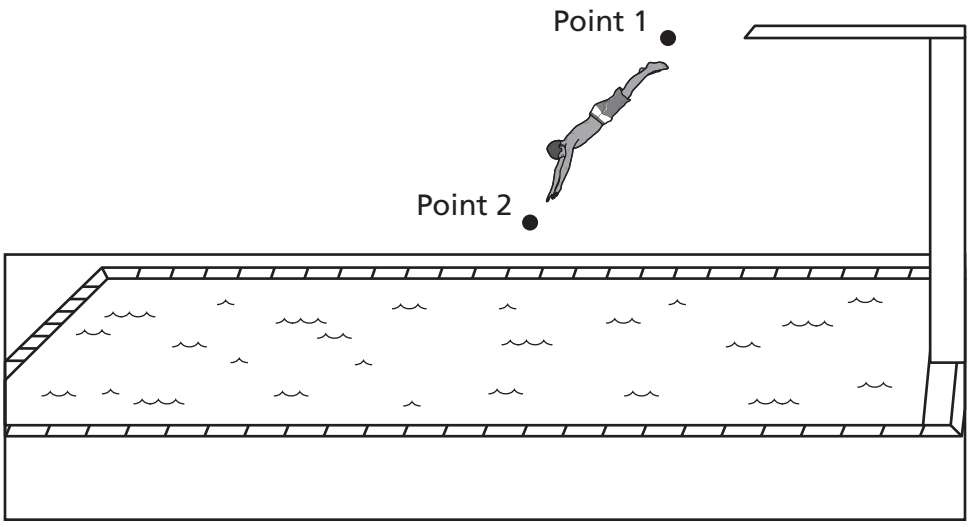
G humidity.

H fog.

J precipitation.

Go On ▶

53 **The picture below shows a diver.**



Which best describes how the energy of the diver changed from Point 1 to Point 2?

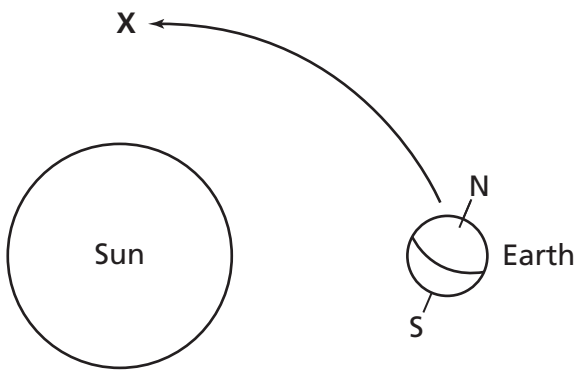
A Potential energy decreased and kinetic energy increased.

B Potential energy increased and kinetic energy decreased.

C Potential energy decreased and kinetic energy decreased.

D Potential energy increased and kinetic energy increased.

54 **The diagram shows the positions of the sun and Earth.**



What season will begin in the Southern Hemisphere when Earth reaches Position X?

F spring

G summer

H fall

J winter

55 **Which of these is a main cause of deep-ocean currents?**

A seafloor spreading

B magnetic field of Earth

C volcanic island eruptions

D water temperature differences

Go On ▶

56 **Which statement best describes a change in energy that takes place when a student runs on a track?**

F The student's heart beating rapidly creates energy.

G The student's heart beating rapidly destroys energy.

H The student converts kinetic energy into potential energy.

J The student converts potential energy into kinetic energy.

57 **The fur of Arctic foxes and Arctic hares is white in winter. The fur of both species becomes brown in summer. This adaptation helps camouflage these animals. In which biome can a predator-prey relationship between Arctic foxes and Arctic hares be found?**

A desert

B rain forest

C wetland

D tundra

58 **Which event is sometimes observable from Earth when the moon is directly between Earth and the sun?**

F lunar eclipse

G solar eclipse

H half moon

J crescent moon

59 **At 1:00 P.M., the air temperature was 78°F, and air pressure was 30.0 inches of mercury with partly cloudy skies. By 4:00 P.M., the temperature dropped to 62°F, and the pressure dropped to 29.5 inches of mercury. Which best predicts the weather for later that afternoon?**

A snowstorms

B rain showers

C sunny and mild

D hot and humid

60 **A student has a plastic comb. The student bends back some of the teeth on a comb with a stick, as shown in the picture below.**

Some of the mechanical energy used to bend the teeth on the comb was transformed into

F light energy.

G electrical energy.

H chemical potential energy.

J elastic potential energy.

Go On ▶

61 **Which is a negative unintended consequence of the increase in the use of portable digital music players?**

A The variety of music styles created by musicians has increased.

B The diversity of multimedia file types available has increased.

C The number of people listening to music has increased.

D The number of accidents due to distracted listeners has increased.

62 **Which of these is an abiotic factor in a tropical rain forest?**

F kapok tree

G high humidity

H bucket orchid flower

J blue mountain butterfly

63 **Which of these takes approximately 24 hours to complete?**

A Earth to rotate once on its axis

B the moon to revolve once around Earth

C Earth to revolve once around the sun

D the sun to rotate once on its axis

64 **The sun heats the surface of Earth unevenly, resulting in atmospheric convection currents. Which of these conditions directly results from the atmospheric convection currents?**

F rain

G wind

H floods

J tides

65 **Which object is the best conductor of electricity?**

A silk thread

B silver wire

C cotton yarn

D rubber tubing

66 **Which of these technologies is adaptive rather than just assistive?**

F a removable hearing aid for the hearing impaired

G the surgical replacement of a heart valve

H contact lenses for near-sighted people

J wheelchairs for people who have trouble walking

Go On ▶

67 **Nematodes are round worms that can live in the intestines of marine fish. The nematodes are helped by living in the fish, but the fish are harmed by the nematodes. Which term describes the role of nematodes in a marine biome?**

A parasite

B host

C predator

D prey

68 **Atmospheric pressure begins to fall slowly during the afternoon on a clear summer day. The pressure continues to drop overnight. What kind of weather will most likely occur the next day?**

F sunny and warm

G sunny and cold

H cloudy with rain

J cloudy with snow

69 **An object will have an increase in its gravitational potential energy when it**

A stretches out from its original shape.

B gains a large amount of mass.

C is raised higher from the ground.

D is heated to a warmer temperature.

STOP

DO NOT

MARK

ON THIS

PAGE

DO NOT

MARK

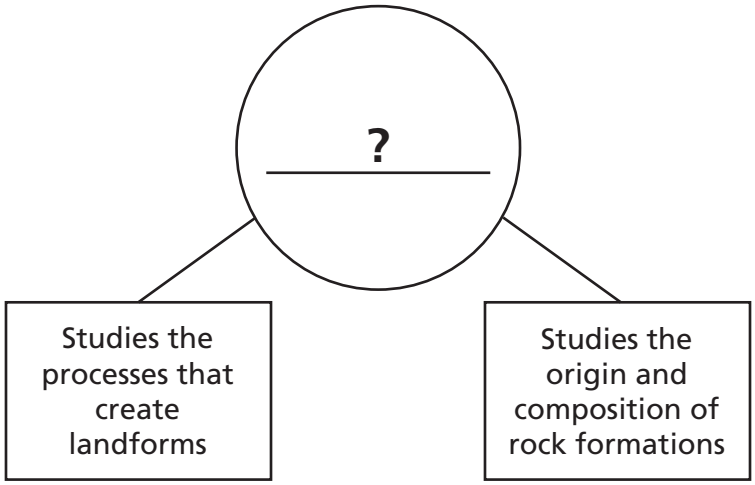
ON THIS

PAGE

Social Studies

Part 1

1 **Study the diagram below.**



Which person is described in this diagram?

A Biologist

B Archaeologist

C Historian

D Geologist

Go On ▶

2 **Study the photograph below.**

Ancient Writings

© Tjanze/iStockphoto #10333026

Which occupation would study the type of writing shown in the photograph?

F biologist

G archaeologist

H geologist

J paleontologist

3 **Study the excerpt below.**

> In here the cold water bubbles through branches of apples, and with roses everything's shaded, and glistening in the wind the leaves rain down gentle sleep.
> In here the meadow horses graze flourishes in spring with flowers, and the winds soothing breathe . . .
>
> — Sappho 31

This excerpt is an example of Greek

A literature.

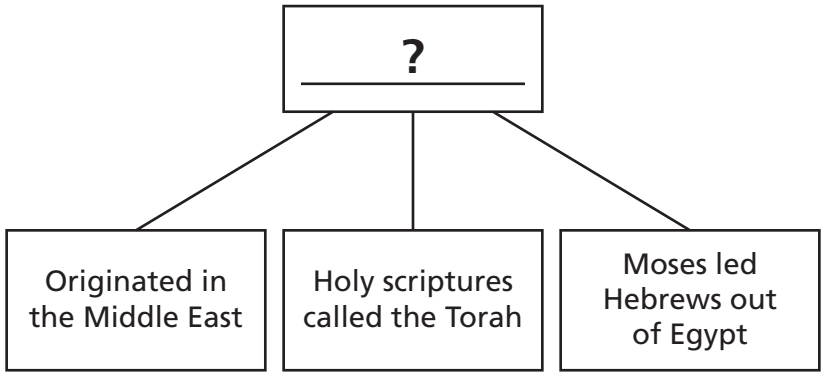
B religion.

C social values.

D military tactics.

Go On ▶

4 **Study the diagram below.**



Which religion best completes the diagram?

F Judaism

G Shinto

H Islam

J Christianity

5 **During the Medieval Period, a major difference between European and Middle-Eastern cultures was the**

A lack of irrigation systems in the Middle East.

B dominance of the Catholic church in Europe.

C decline in the use of romance languages in Europe.

D increase in the number of democratic governments in the Middle East.

6 **Study the picture below.**

Nile River Delta

Courtesy of NASA/GSFC/LaRC/JPL, MISR Team.

What is the main reason early cultural groups settled in the region shown?

F The region offered protection from attacks.

G The land was viewed as a holy site.

H The area served as a source of fresh water.

J The mountainous areas experienced few natural disasters.

7 **What information does *The Iliad* provide to historians studying ancient Greece?**

A It explains the laws for a society.

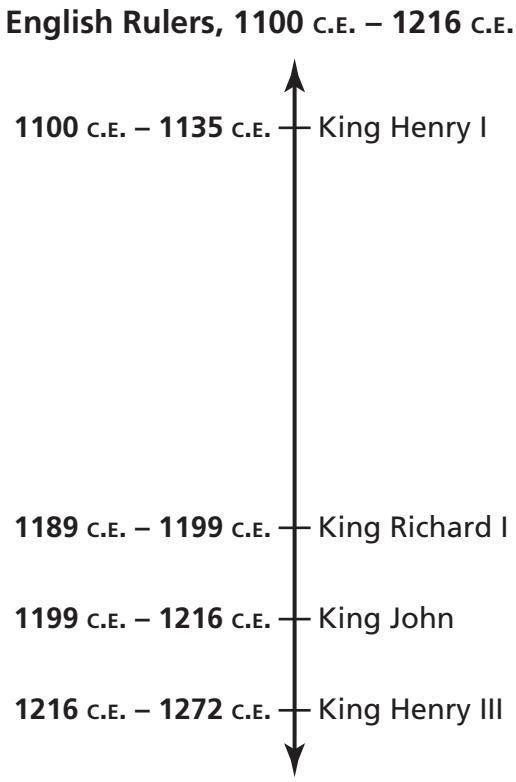
B It describes an early system of farming.

C It gives facts about important battles.

D It aids in the understanding of culture.

Go On ▶

8 **Study the timeline below.**



During which time period did the events on the timeline occur?

F Classical Period

G Middle Ages

H Renaissance

J Dark Ages

9 **Which person is involved in a barter economy?**

A a farmer selling wheat in order to purchase clothing

B a tailor buying supplies with profits from last month

C a rancher purchasing tools with earnings from cattle

D a gardener trimming a fruit tree in exchange for fruit

10 **Study the account below.**

> The Chinese look upon all foreigners as [uneducated]. . . . They even disdain to learn anything from the books of outsiders because they believe that all true science and knowledge belongs to them alone.
>
> — Journals of Matteo Ricci,
> Jesuit Missionary (1583–1610)

Based on Matteo Ricci's account, which statement about China's culture is most likely true?

F The exchange of information with foreign nations was encouraged by China.

G The Chinese government adopted technology invented in other countries.

H The merchants refused to trade goods outside the country of China.

J The Chinese believed that foreign nations lacked useful skills.

Go On ▶

11 **Study the photograph below.**

Rock Engraving

© Linda Mirro/iStockphoto #14565841

Which group <u>most</u> likely created this artifact?

A Native American shamans in North America

B Greek philosophers in the temples of Athens

C Roman gladiators living in Rome

D Chinese warriors guarding the Great Wall

12 **Study the passage below.**

> The Basic Law adopted in 1992 declared that Saudi Arabia is . . . ruled by the sons and grandsons of King Abdul Aziz Al Saud . . .
>
> — U.S. Department of State

What type of government is described in the passage?

F democracy

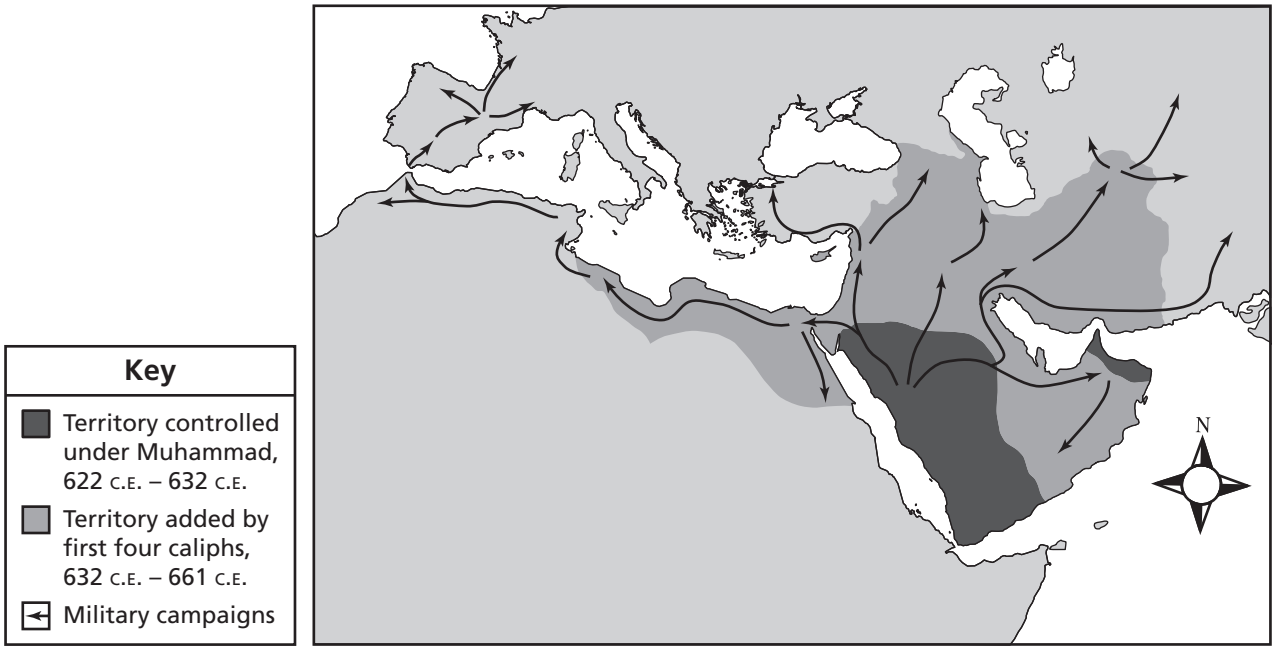
G theocracy

H dictatorship

J monarchy

13 **Study the map below.**

Arab Conquest, 622 C.E. – 750 C.E.



Which effect did the military conquests shown on the map have on this region?

A Islamic religion was spread.

B Territorial tensions were decreased.

C Subsistence agriculture was introduced.

D Trade markets were lost.

14 **What <u>most</u> helped Sumerians know what was legally expected of them as citizens?**

F Citizens participated in every part of government.

G Citizens were provided with a religious education.

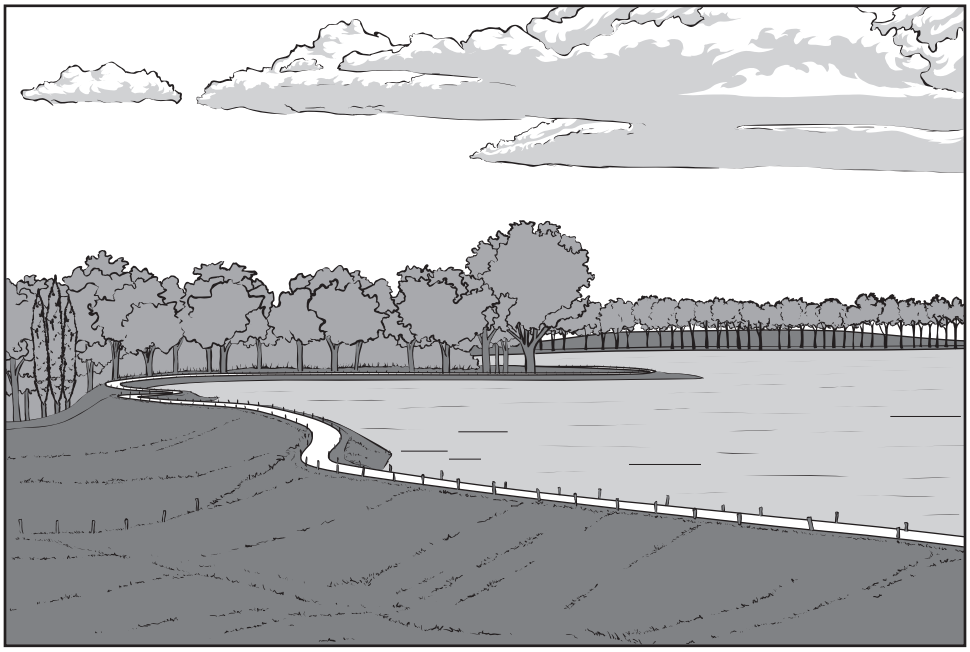
H Citizens had to follow a detailed written code of laws.

J Citizens were divided into distinct social classes.

Go On ▶

15 **Study the picture below.**

Use of _____?_____ to Control Water



Which term best replaces the question mark?

A River Dikes

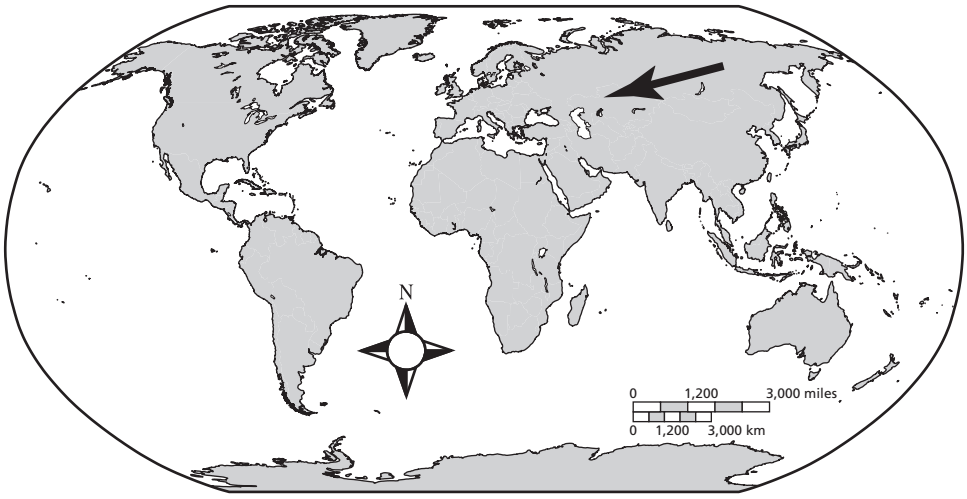
B Aqueducts

C Drip Irrigation

D Cement Roads

16 **Study the map below.**

The World



Which basic component is identified by the arrow on the world map?

F ocean

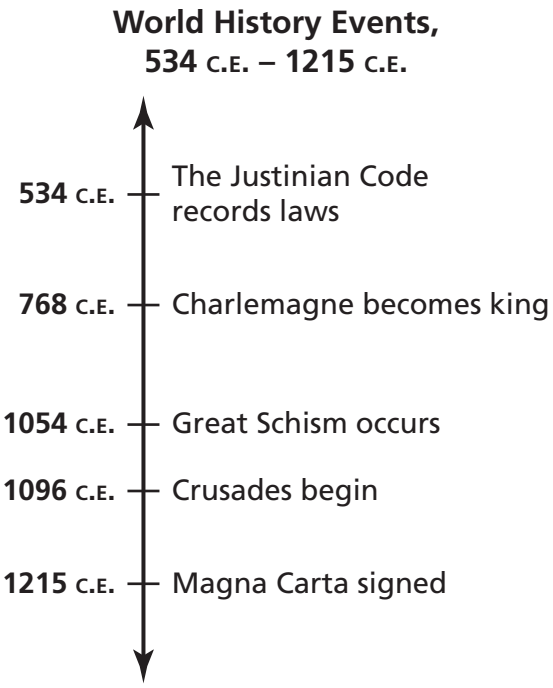
G continent

H scale

J compass rose

Go On ▶

17 **Study the timeline below.**



1066 C.E. — Norman invasion of England occurs

Where would this event be placed on the timeline?

A between the Justinian Code and Charlemagne becoming king

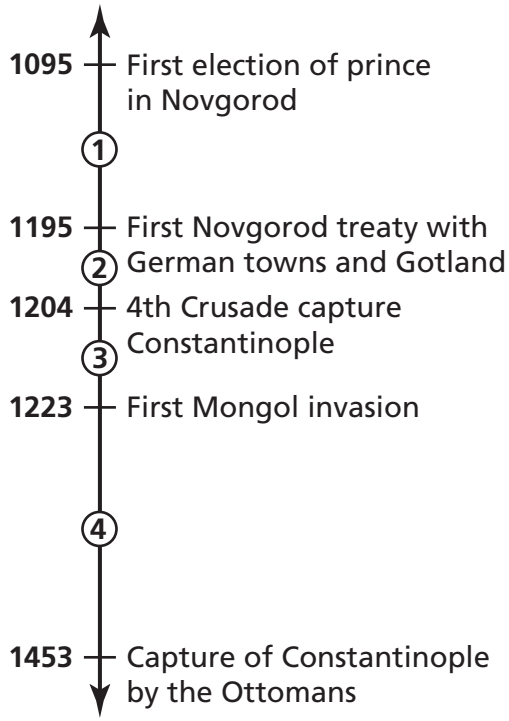
B between Charlemagne becoming king and the Great Schism

C between the Great Schism and the beginning of the Crusades

D between the beginning of the Crusades and the signing of the Magna Carta

18 **Study the timeline below.**

Selected Events in Russian History, 1095 C.E. – 1453 C.E.



Which number on the timeline shows the span of a century?

F 1

G 2

H 3

J 4

Go On ▶

19 **As villages evolved into cities, the people**

A became more isolated

B developed series of written codes

C relied increasingly on hunting

D began to specialize labor

20 **Study the picture below.**

Lakota Moving Camp

Smithsonian American Art Museum, Washington, DC/Art Resource, NY

Which type of community is shown in the picture?

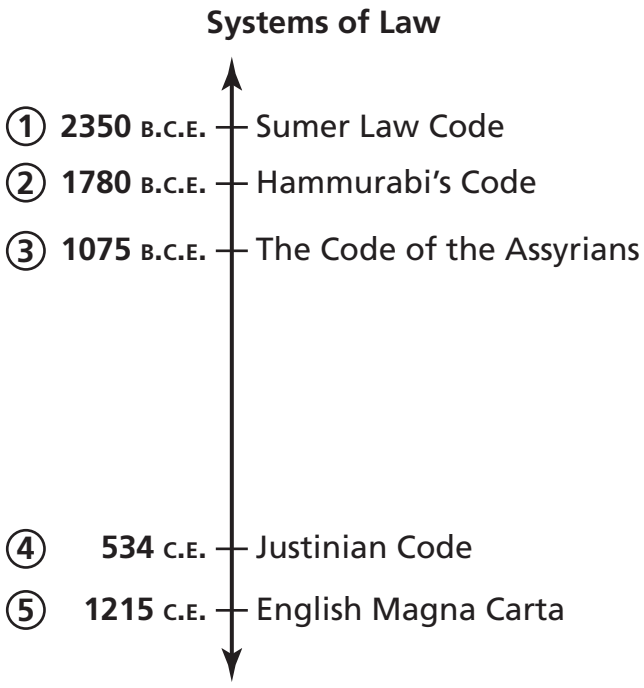
F farming

G nomadic

H ranching

J religious

21 **Study the timeline below.**



1066 C.E. Norman Conquest of England

In which period does this event belong?

A between 1 and 2

B between 2 and 3

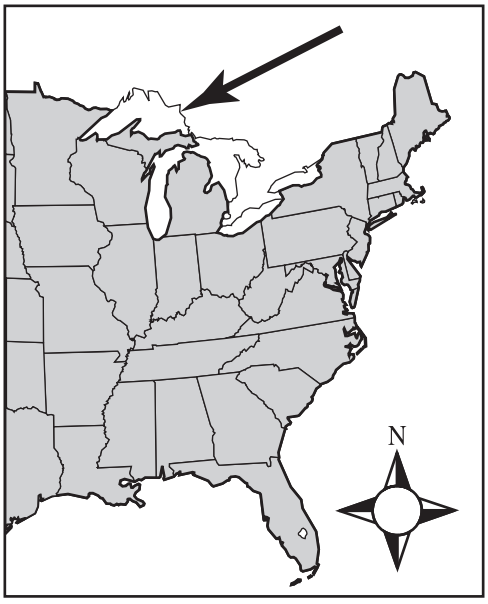
C between 3 and 4

D between 4 and 5

Go On ▶

22 **Study the map below.**

Eastern United States



Which basic geographic form is being indicated by the arrow on the map?

F bay

G lake

H gulf

J stream

23 **Study the picture below.**

Sculpture Located at the Ming Dynasty Tombs

© Prill Mediendesign & Fotografie/iStockphoto #15163524

Which culture created the artifact shown in this picture?

A Indian

B Chinese

C Greek

D Arab

Go On ▶

24 **Study the information below.**

> [William the Conqueror ruled] over England . . . he surveyed the kingdom so thoroughly that there was not a single [area] of land . . . which he knew not the [owner], and how much it was worth, and this he afterward entered in his register . . . he took from his subjects . . . gold, and many hundred pounds of silver . . .
>
> — The Domesday Book, 1086

Based on this information, William the Conqueror was known for

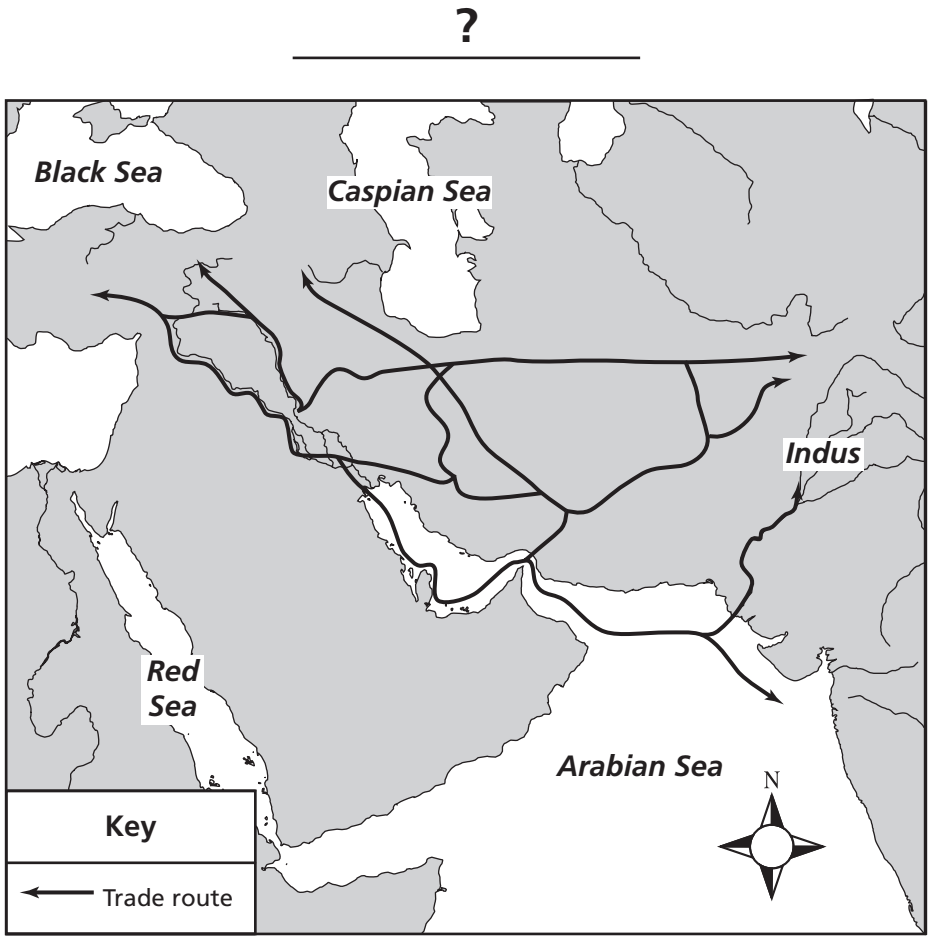
F establishing policies that allowed citizens to make laws.

G preventing individuals from practicing religion.

H demanding resources from the country's citizens.

J attempting to limit the government's power.

25 **Study the map below.**



Which is the best title for the map?

A Trans-Saharan Trade Routes

B Spice Trade Routes

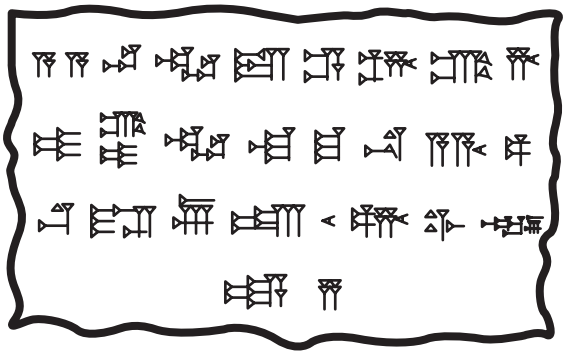
C Slave Trade Routes

D Persian Trade Routes

Go On ▶

26 **Study the picture below.**

An Ancient Form of Writing



Which phrase <u>best</u> describes the picture?

F Native American symbols

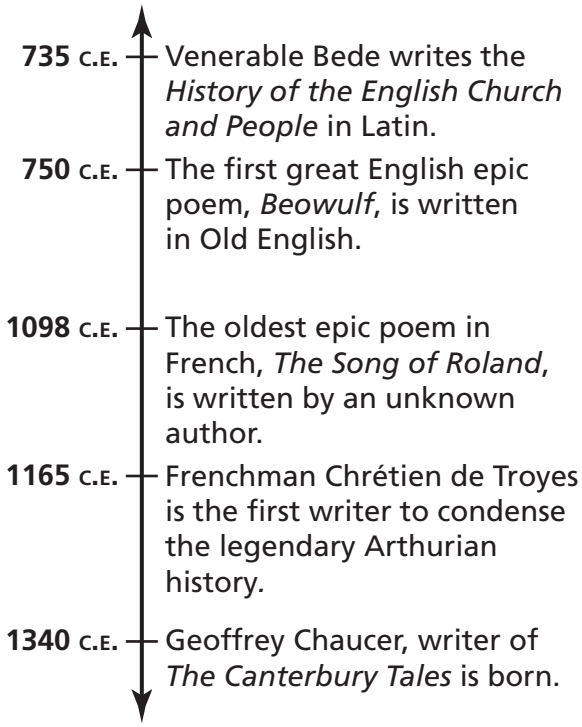
G Ancient Sumerian cuneiform

H Early Egyptian hieroglyphics

J Ancient Greek numerals

27 **Study the timeline below.**

Famous Historical Literature,
735 C.E. – 1340 C.E.



Based on the timeline, which work was written after the legends of Arthur?

A *The Song of Roland*

B *Beowulf*

C *The History of the English Church*

D *The Canterbury Tales*

Go On ▶

28 **Study the document below.**

> 55. If any one open his ditches to water his crop, but is careless, and the water flood the field of his neighbor, then he shall pay his neighbor corn for his loss.
> 56. If a man let in the water, and the water overflow the plantation of his neighbor, he shall pay . . . corn for . . . land.
>
> — Code of Hammurabi

Why is the Code of Hammurabi an important document in world history?

F It served as a record of ancient events.

G It provided an early example of written law.

H It served as the earliest form of literature.

J It recorded the use of ancient trade routes.

29 **Which action helped the establishment of permanent settlements?**

A Invention of the wheel

B New weapons technology

C Development of farming

D Written languages

30 **Where did the Latin language originate?**

F Spain

G Germany

H Italy

J Greece

31 **Study the map below.**

The World

Which number on the map identifies the region of early Chinese civilizations?

A 1

B 2

C 3

D 4

32 **A city that existed for a century would be described as lasting for**

F 1 year.

G 10 years.

H 100 years.

J 1,000 years.

Go On ▶

33 **Study the artifact below.**

Cuneiform Tablet

Erich Lessing/Art Resource, NY

This artifact was <u>most</u> likely found in

A Mesopotamia.

B Northern Africa.

C South America.

D China.

34 **Study the list below.**

Advantages of ?

- easy access to cattle for milk and meat
- horses available to provide transportation
- dogs available for hunting

Which characteristic best completes this title?

F Nomadic Lifestyles

G Agricultural Development

H Subsistence Farming

J Animal Domestication

35 **Study the image below.**

Chichen Itza, Mayan Ruins

© Simon Podgorsek/iStockphoto #15471249

The structure in the image most likely served as

A an educational center during the Dark Ages.

B a temple used during the early civilization period.

C an agricultural site during the Middle Ages.

D a government building used during the Renaissance Period.

STOP

Part 2

36 **Study the information below.**

Akbar

In 1556, Akbar became ruler of the Mughal Empire at the age of thirteen. As ruler, Akbar supported the arts, sciences, literature, and promoted religious tolerance. By abolishing the tax on Hindus, Akbar was able to win the loyalty of the Hindus

Based on this source, which conclusion is correct?

F Akbar promoted a strong military and harsh rule.

G Akbar increased tariffs on local goods.

H Akbar educated foreign born Muslims.

J Akbar brought stability and peace to his empire.

37 **Which natural disaster was responsible for the decline of populations across Europe in the late Middle Ages?**

A earthquakes

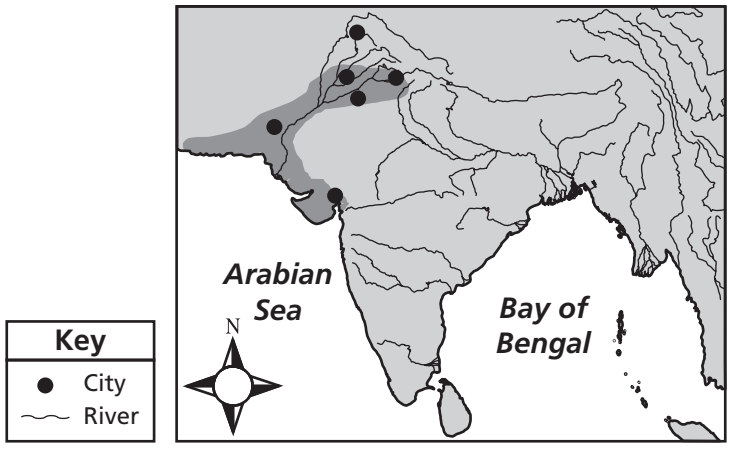
B a drought

C a plague

D floods

38 **Study the map below.**

Early Indian Civilization



Which geographic factor influenced the establishment of cities in the darker-shaded area?

F Coastal lands were used as transportation routes.

G Mountain ranges provided protection from floods.

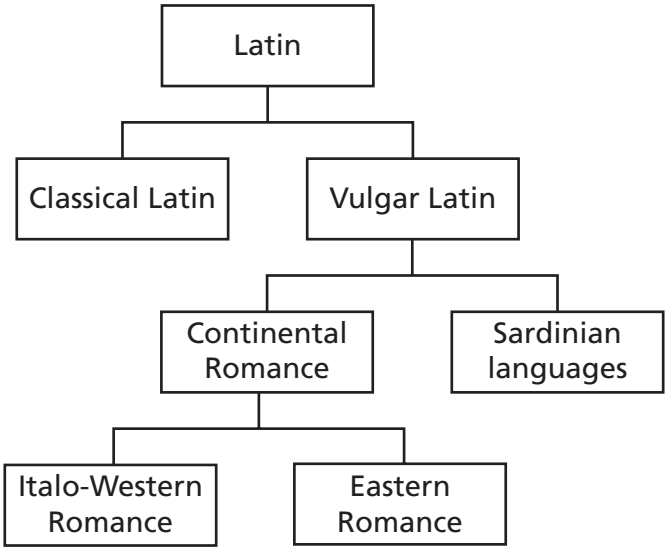
H River valleys provided fertile lands for agricultural use.

J Deserts created a natural boundary for settlements.

Go On ▶

39 **Study the diagram below.**

Development of Romance Languages



What does the diagram illustrate?

A establishment of an official language in Africa

B founding of the classical Greek alphabet system

C growth of spoken languages in Europe

D spread of written text in East Asian countries

40 **What was one impact of the agricultural revolution on Western Europe?**

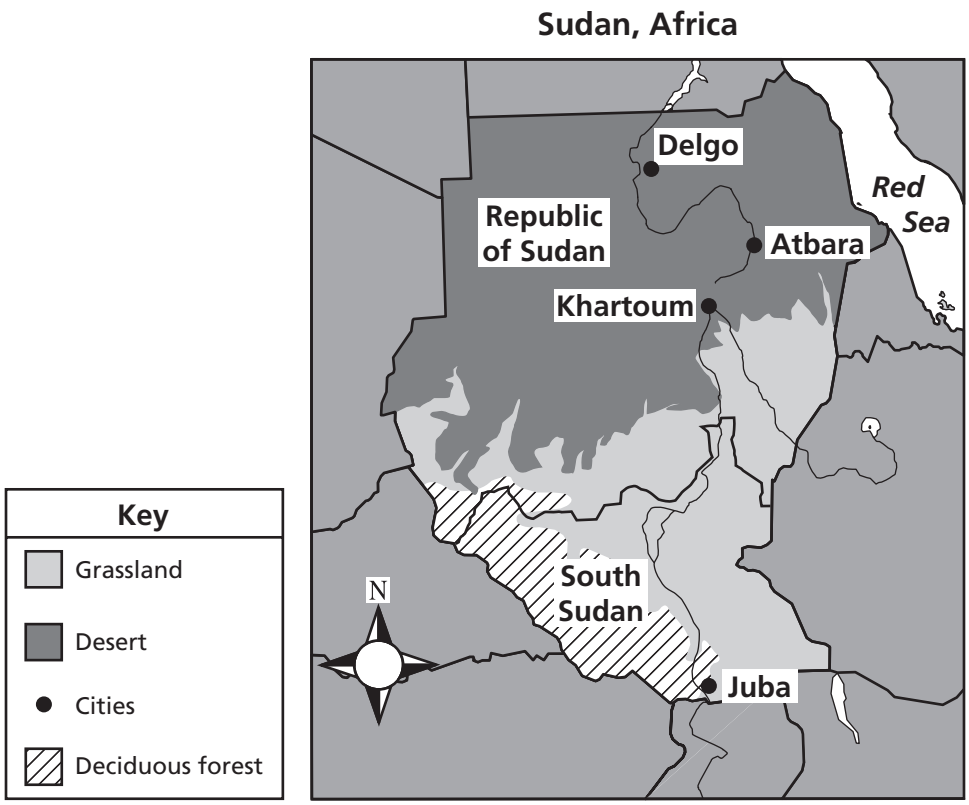
F a decrease in local trade

G an increase in harvest yields

H a decrease in local populations

J an increase in overseas exploration

41 **Study the map below.**



Based on the geographic features, which location would most likely receive the greatest amount of rainfall?

A Delgo

B Atbara

C Khartoum

D Juba

Go On ▶

42 **Study the picture below.**

Statue of Emperor Augustus

© xyno/iStockphoto #8553359

Which government was ruled by the individual represented by the statue?

F Mesopotamian

G Egyptian

H Indian

J Roman

43 **Study the table below.**

How European Thinkers Explained the World

Before	After
• Traditional beliefs	• Experimentation and measurement

Which historical period is best identified by the changes shown in this table?

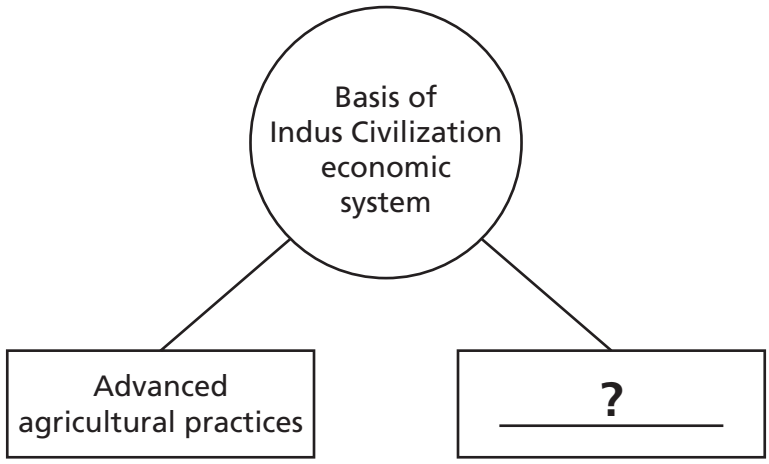
A The Bronze Age

B The Classical Era

C The Middle Ages

D The Renaissance

44 **Study the diagram below.**



Which phrase best completes the diagram?

F Vast desert area

G Fertile river valley

H Tall mountain range

J Lush rain forest

Go On ▶

45 **Study the list below.**

Issues Facing Civilizations

- Deforestation and habitat destruction
- Poor soil quality
- Lack of fresh water

The list describes characteristics of

A environmental change.

B political collapse.

C failing education systems.

D declining religions.

46 **Study the photograph below.**

Lincoln Memorial

© Uschools University Images/iStockphoto #14982097

Which civilization's architectural style influenced the design of the building in the photograph?

F Chinese

G Viking

H French

J Greek

Go On ▶

47 **Study the list below.**

- Peasants were workers who farmed the land
- Lords offered protection in exchange for living and working on the land

The individuals described in the list were members of

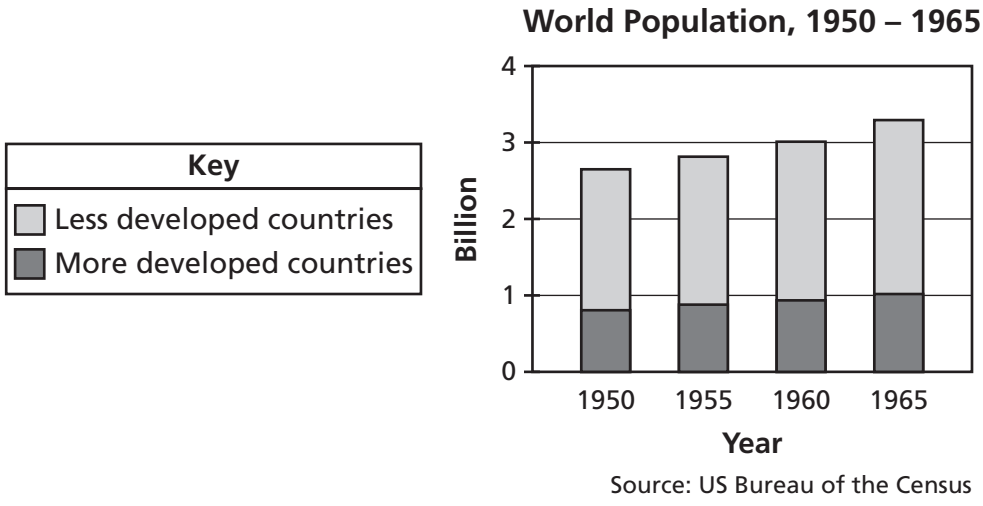
A an Egyptian city.

B a Greek city-state.

C the Indian caste system.

D the European feudal system.

48 **Study the graph below.**



Source: US Bureau of the Census

Which statement is supported by this graph?

F The population in more developed countries was greater in 1950 than in 1965.

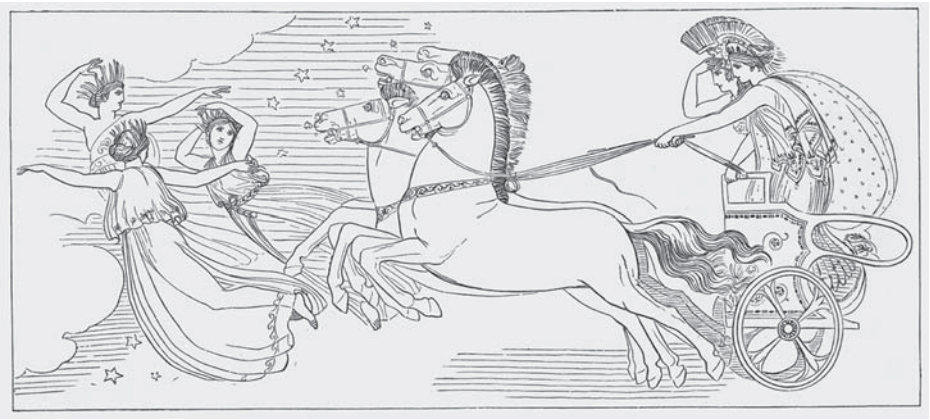
G The population in less developed countries grew faster than more developed countries.

H The world population increased the most between the years 1955 and 1960.

J The population of more developed countries outnumbers the less developed countries.

49 **Study the illustration.**

Juno and Minerva



© Duncan Walder/iStockphoto #13584076

Which culture worshipped the gods shown in the illustration?

A Greek

B Roman

C Egyptian

D Sumerian

50 **Which group is credited with introducing gunpowder to Western Europe?**

F Chinese merchants

G Korean missionaries

H Japanese samurais

J Indian traders

Go On ▶

51 **Study the photos below.**

Temple of Kukulkan, Mexico

© David Mantel/iStockphoto #15270388

Temple of Isis, Egypt

© Jan Rihak/iStockphoto #3915382

Based on these pictures, which conclusion is correct about these ancient civilizations?

A Religion was an important part of many cultures.

B Temples served as a main trading center.

C Scholars used these sites for educating the youth.

D Local governments used temples to hold court.

52 **What was one way European Christians impacted the history of the Middle East?**

F Pope Urban II called on all able men to fight the Crusades and take back the Holy Land.

G Martin Luther posted his Ninety-Five Theses on the door of a church, announcing the Reformation.

H Charlemagne was crowned Emperor of the Romans by Pope Leo III.

J The nobles of England forced King John to sign the Magna Carta.

53 **The threat of Viking attacks on Western Europe resulted in the**

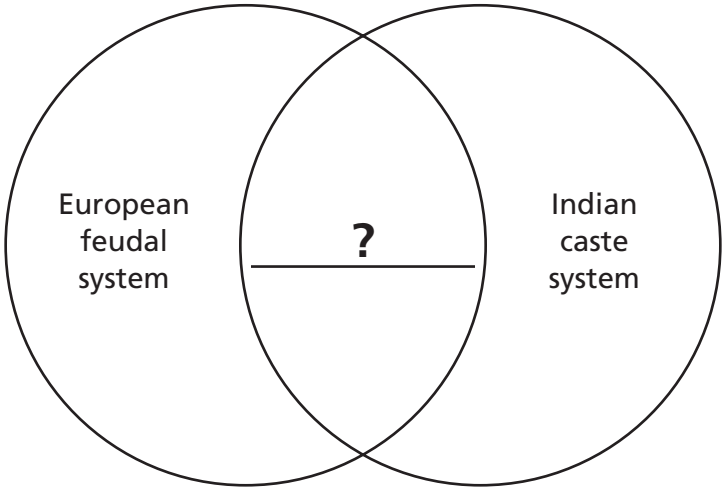
A establishment of a series of Crusades.

B creation of the feudal system.

C increased centralized control of the Church.

D building of stone walls around farms.

54 **Study the diagram below.**



Which cultural aspect is shared by both systems?

F Society divided into classes

G Free schooling for children

H Belief in only one god

J Ability to vote for leaders

Go On ▶

55 **What was one effect that resulted from Joan of Arc's actions?**

A The authority of religious leaders was reduced.

B French citizens were allowed to vote.

C Living conditions of laborers were improved.

D The French king was able to gain power.

56 **Study the list below.**

- Unified Spain
- Sponsored the voyage of Christopher Columbus
- Forced the religious conversion of Jews

Which individual is most associated with the events listed?

F Joan of Arc

G Queen Elizabeth I

H Eleanor of Aquitaine

J Queen Isabella

57 **What is the main reason early Egyptians created permanent settlements in the Nile Valley?**

A abundant mineral resources.

B open plains for herding.

C fertile soil for agriculture.

D mountain ranges for protection.

58 **Study the drawing below.**

William the Conqueror

© Georgios Kollidas/iStockphoto #12390883

Which change in England was made by this man?

F instituted a centralized feudal system

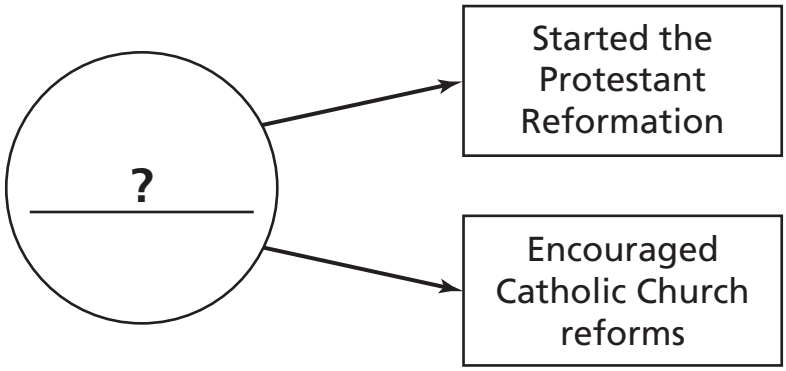
G created a democratic government

H improved agricultural technology

J promoted the Protestant religion

Go On ▶

59 **Study the diagram below.**



Which factor best completes the diagram?

A Martin Luther criticizes the abuse of indulgences

B Henry VIII divorces Catherine of Aragon

C John Calvin writes new religious rules

D Queen Isabella funds Christopher Columbus's exploration

60 **In the 16th century, one way European nations attempted to increase their power was through**

F the introduction of new trading practices.

G adoption of universal military service.

H the introduction of a democratic system.

J peaceful coexistence between countries.

61 **Which statement about the writing form used in Mesopotamia is correct?**

A Latin was used to conduct religious services.

B Cuneiform script was used to produce literary works.

C Romance languages were used among trade merchants.

D Hieroglyphics were used to document tribal traditions.

62 **Study the headline below.**

Daily Express

Egyptian Government Searches
for Oil Along Nile River

Which specialist would most likely manage the project described in this headline?

F geologist

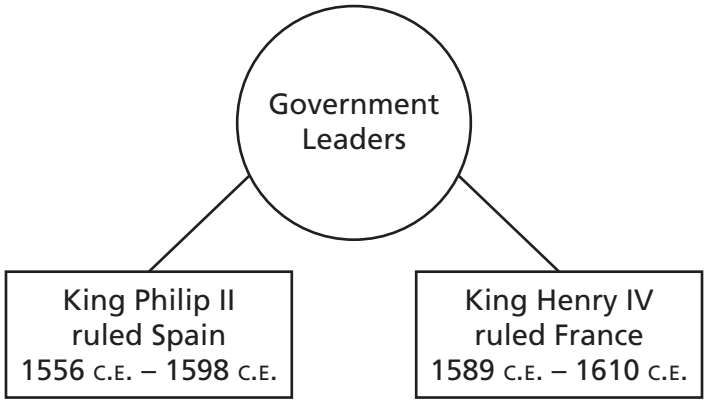
G archaeologist

H seismologist

J anthropologist

Go On ▶

63 **Study the diagram below.**



Which type of government was led by the individuals in the diagram?

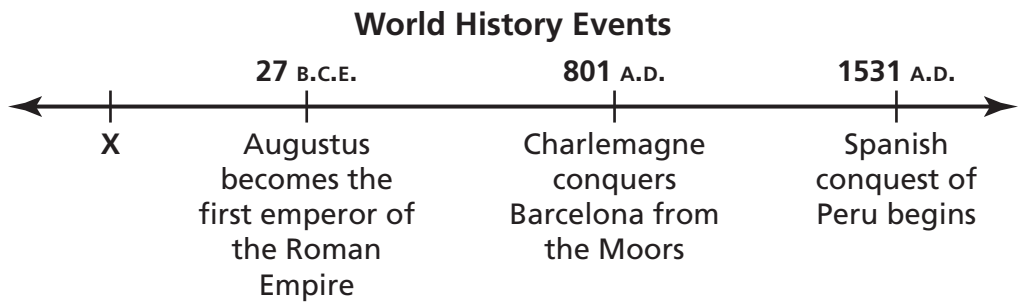
A oligarchy

B theocracy

C monarchy

D democracy

64 **Study the timeline below.**



Which event would be placed at the X on the timeline?

F William the Conqueror invades England

G Athenians practice democracy under Pericles

H Columbus is sent to find a new route to Asia

J Renaissance artists develop new techniques

65 **Which structure is matched with the correct culture?**

A **Greek**

© Asier Villafranca Velasco/ iStockphoto #2575024

B **Middle Eastern**

© Simon Podgorsek/ iStockphoto #16996261

C **Roman**

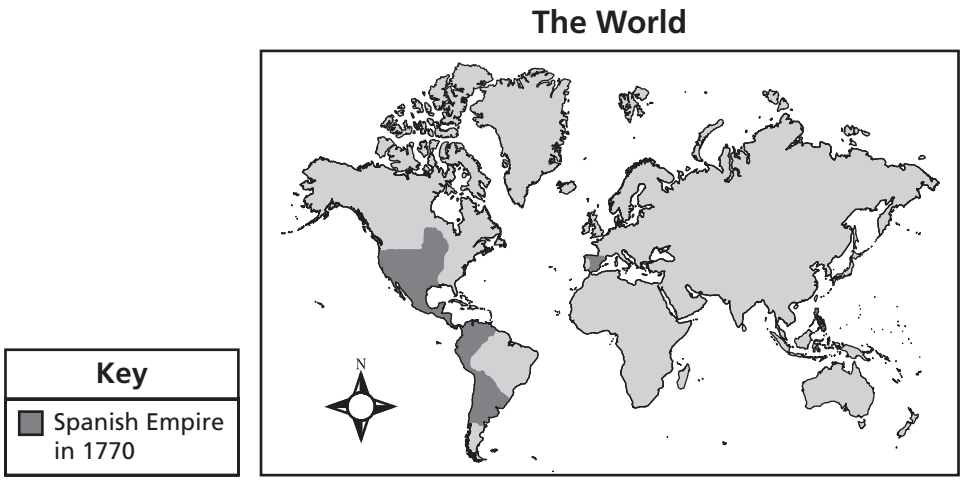
© Karim Hesham/ iStockphoto #2690010

D **Chinese**

© Steve Geer/ iStockphoto #699901

Go On ▶

66 **Study the map below.**



Based on the map, what was the most likely effect of Spanish colonization?

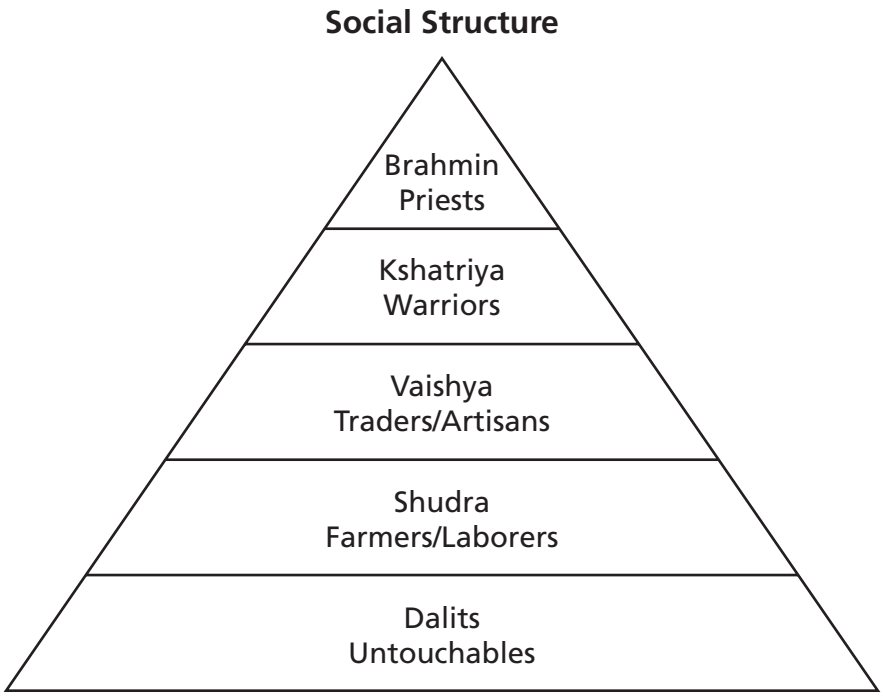
F spread of the Spanish language in the Americas

G use of Spanish currency in Asian markets

H establishment of Spanish control in Africa

J construction of Spanish ports along the Indian Ocean

67 **Study the diagram below.**



Which ancient social structure is best described by the diagram?

A Athenian democratic system

B Medieval feudalism

C Indian caste system

D Egyptian monarchy

Go On ▶

68 **Study the chart below.**

Written Languages, c. 1500 C.E.

Europe	?
Roman Alphabet	Character-Based System

Which of the following best completes this chart?

F Indian

G East Asian

H West African

J Middle Eastern

69 **Study the list below.**

- Vasco da Gama – 1497
- Vasco Nunez de Balboa – 1513
- Ferdinand Magellan – 1521

Which economic factor most influenced the funding of the explorers listed?

A High unemployment rates created a need for new colonies.

B The demand for riches created a need for alternate trade routes.

C Limited food supplies created a need for new trade partners.

D The production of goods created a need for larger markets.

STOP

Reading and Language Arts
Answer Key

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

22	G
23	D
24	G
25	C
26	F
27	D
28	G
29	A
30	J
31	A
32	G
33	C
34	G
35	D
36	G
37	D
38	H
39	B
40	J
41	A
42	J

43	A
44	J
45	C
46	G
47	B
48	F
49	D
50	H
51	B
52	H
53	D
54	F
55	A
56	G
57	D
58	H
59	B
60	H
61	B
62	H
63	A

64	H
65	B
66	J
67	A
68	H
69	B
70	G
71	A
72	H
73	D
74	F
75	C
76	G
77	D
78	J
79	C
80	H
81	B
82	J
83	B

Mathematics
Answer Key

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

15	C
16	G
17	D
18	G
19	A
20	G
21	A
22	J
23	D
24	H
25	B
26	H
27	B
28	H

29	D
30	F
31	B
32	J
33	D
34	J
35	C
36	G
37	B
38	F
39	D
40	H
41	C
42	G

43	A
44	G
45	A
46	H
47	A
48	J
49	B
50	F
51	B
52	F
53	C
54	G
55	C

Science
Answer Key

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

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

37	C
38	G
39	C
40	J
41	D
42	F
43	A
44	G
45	A
46	H
47	D
48	H
49	C
50	H
51	A
52	F
53	A
54	H

55	D
56	J
57	D
58	G
59	B
60	J
61	D
62	G
63	A
64	G
65	B
66	G
67	A
68	H
69	C

Social Studies
Answer Key

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

19	B
20	G
21	D
22	G
23	B
24	H
25	D
26	G
27	D
28	G
29	C
30	H
31	D
32	H
33	A
34	J
35	B
36	J

37	C
38	H
39	C
40	G
41	D
42	J
43	D
44	G
45	A
46	J
47	D
48	G
49	B
50	F
51	A
52	F
53	B
54	F

55	D
56	J
57	C
58	F
59	A
60	F
61	B
62	F
63	C
64	G
65	A
66	F
67	C
68	G
69	B

Tennessee Comprehensive Assessment Program

Achievement Test ~ Grade 6

Practice Test

Version B

TN00005428

543131 1 2 3 4 5 A B C D E Printed in the USA ISD4532