DIRECTIONS
Read the two selections and the viewing and representing piece. Then answer the questions that follow.

Amir

by Paul Fleischman

1 In India we have many vast cities, just as in America. There, too, you are one among millions. But there at least you know your neighbors. Here, one cannot say that. The object in America is to avoid contact, to treat all as foes unless they’re known to be friends. Here you have a million crabs living in a million crevices.

2 When I saw the garden for the first time, so green among the dark brick buildings, I thought back to my parents’ Persian rug. It showed climbing vines, rivers and waterfalls, grapes, flower beds, singing birds, everything a desert dweller might dream of. Those rugs were indeed portable gardens. In the summers in Delhi, so very hot, my sisters and I would lie upon it and try to press ourselves into its world. The garden’s green was as soothing to the eye as the deep blue of that rug. I’m aware of color. I manage a fabric store. But the garden’s greatest benefit, I feel, was not relief to the eyes, but to make the eyes see our neighbors.

3 I grew eggplants, onions, carrots, and cauliflower. When the eggplants appeared in August they were pale purple, a strange and eerie shade. When my wife would bring our little son, he was forever wanting to pick them. There was nothing else in the garden with that color. Very many people came over to ask about them and talk to me. I recognized a few from the neighborhood. Not one had spoken to me before—and now how friendly they turned out to be. The eggplants gave them an excuse for breaking the rules and starting a conversation. How happy they seemed to have found this excuse, to let their natural friendliness out.

4 Those conversations tied us together. In the middle of summer someone dumped a load of tires on the garden at night, as if it were still filled with trash. A man’s four rows of young corn were crushed. In an hour, we had all the tires by the curb. We were used to helping each other by then. A few weeks later, early in the evening a woman screamed, down the block from the garden. A man with a knife had taken her purse. Three men from the garden ran after him.
I was surprised that I was one of them. Even more surprising, we caught him. Royce held the man to a wall with his pitchfork until the police arrived. I asked the others. Not one of us had ever chased a criminal before. And most likely we wouldn’t have except near the garden. There, you felt part of a community.

I came to the United States in 1980. Cleveland is a city of immigrants. The Poles are especially well known here. I’d always heard that the Polish men were tough steelworkers and that the women cooked lots of cabbage. But I’d never known one—until the garden. She was an old woman whose space bordered mine. She had a seven-block walk to the garden, the same route I took. We spoke quite often. We both planted carrots. When her hundreds of seedlings came up in a row, I was very surprised that she did not thin them—pulling out all but one healthy-looking plant each few inches, to give them room to grow. I asked her. She looked down at them and said she knew she ought to do it, but that this task reminded her too closely of her concentration camp, where the prisoners were inspected each morning and divided into two lines—the healthy to live and the others to die. Her father, an orchestra violinist, had spoken out against the Germans, which had caused her family’s arrest. When I heard her words, I realized how useless was all that I’d heard about Poles, how much richness it hid, like the worthless shell around an almond. I still do not know, or care, whether she cooks cabbage.

The garden found this out with Royce. He was young and black. He looked rather dangerous. People watched him and seemed to be relieved when he left the garden. Then he began spending more time there. We found out that he had a stutter. Then that he had two sisters, that he liked the cats that roamed the garden, and that he worked very well with his hands. Soon all the mothers were trying to feed him. How very strange it was to watch people who would have crossed the street if they’d seen him coming a few weeks before, now giving him vegetables, more than he could eat. In return, he watered for people who were sick and fixed fences and made other repairs. He might weed your garden or use the bricks from the building that was torn down up the block to make you a brick path between your rows. He always pretended he hadn’t done it. It was always a surprise. One felt honored to be chosen. He was trusted and liked—and famous, after his exploit with the pitchfork. He was not a black teenage boy. He was Royce.
In September he and a Mexican man collected many bricks from up the street and built a big barbecue. I was in the garden on Saturday when the Mexican family drove up in a truck with a dead pig in the back. They built a fire, put a heavy metal spit through the pig, and began to roast it. A bit later their friends began arriving. One brought a guitar, another played violin. They filled a folding table with food. Perhaps it was one of their birthdays, or perhaps no reason was needed for the party. It was beautiful weather, sunny but not hot. Fall was just beginning and the garden was changing from green to brown. Those of us who had come to work felt the party’s spirit enter us. The smell of the roasting pig drifted out and called to everyone, gardeners or not. Soon the entire garden was filled.

It was a harvest festival, like those in India, though no one had planned it to be. People brought food and drinks and drums. I went home to get my wife and son. Watermelons from the garden were sliced open. The gardeners proudly showed off what they’d grown. We traded harvests, as we often did. And we gave food away, as we often did also—even I, a businessman, trained to give away nothing, to always make a profit. The garden provided many excuses for breaking that particular rule.

Many people spoke to me that day. Several asked where I was from. I wondered if they knew as little about Indians as I had known about Poles. One old woman, Italian I believe, said she’d admired my eggplants for weeks and told me how happy she was to meet me. She praised them and told me how to cook them and asked all about my family. But something bothered me. Then I remembered. A year before she’d claimed that she’d received the wrong change in my store. I was called out to the register. She’d gotten quite angry and called me—despite her own accent—a dirty foreigner. Now that we were so friendly with each other I dared to remind her of this. Her eyes became huge. She apologized to me over and over again. She kept saying, “Back then, I didn’t know it was you . . .”
Late at night I sit in my apartment in Washington, D.C., watching U.S. leaders talk on television about the war on terrorism. Afghanistan moves in and out of these conversations, as it does with the headlines. One day there’s a lethal flare-up in a mountain stronghold. Later the situation is “controlled,” and newsroom pundits move on to other hot spots like Iran, Kashmir, or Somalia. Then my phone rings. The call is from Afghanistan.

It’s my former translator, Ahmad Zia Masud, now a negotiator for Afghanistan’s hastily formed Ministry of Defense. He calls me often by satellite phone from mountaintops, villages, and caves where he is meeting with resisters to reform—Taliban fighters, independent warlords—who, after decades of war, are reluctant or unwilling to lay down their guns. Sometimes Masud and other negotiators are threatened and forced to retreat. Soldiers then move in, and the hills resound once more with war.

“This is a very dangerous time for my country,” Masud tells me. “Every day I see disaster. The young boys, they know only war, nothing else. What will happen to them? I believe food will come, factories will come, but now the people are suffering. Even if peace comes, so much has died.”

From last October into December, Masud and I worked together day and night in the parched hills and plains of northern Afghanistan, where I was on assignment as a photojournalist for The Washington Post. Masud was in his eighth year of forced exile from his home in Taliban-controlled Kabul, working mostly for Northern Alliance leadership. When hundreds of foreign journalists began descending into Khodja Bahauddin, site of the Northern Alliance’s government headquarters, the foreign ministry assembled an army of translators. Masud, with halting English but well connected, wound up with me.

He is a devout Muslim and father of three; I am unveiled, single Western woman. Neither of us imagined how our minds and lives would mingle—and be forever changed.

From the start we covered frontline stories, which required a steady diet of Russian military maps, bareback rides on mountain-bred horses across frigid rivers, a phone book filled with satellite numbers for field commanders, and a stomach for black tea. Some days mortar fire thundered constantly. Other days were still. The United States had announced that it would launch air strikes on Taliban positions, but the Northern Alliance frontline commanders we were meeting with weren’t being told when. So they held their men in check, awaiting the U.S. campaign that would allow them to take the offensive against weakened Taliban territory. This lull created space to report beyond the front lines, to provide social and historical background for the conflict. Camera in hand, I set out to document the “collateral” consequences of the war. From
One day we visited Lalaguzar, a sprawling refugee camp near Khodja. Weeks earlier I had watched a boy there toss a tiny ball made of plastic wrapped
with twine. The sand-colored ball was constantly disappearing or unwinding. Later, in a far-off town, I bought a soccer ball. Masud and I returned to Lalaguzar and wandered through miles of indistinguishable tents, looking for the boy. Giggle children, all hungry for play, crowded around. As I offered a kicking lesson, some women peeked at us from behind a tent. Masud kicked the ball, and one of the women kicked it back. “Oh, no,” said Masud, only half-joking. “Maybe her husband will kill me. I played soccer with his wife.”

That afternoon we returned to Khodja and sat with tea on the concrete stoop outside my room. Masud poured the tea, then abruptly confessed that he felt conflicted in my presence. “It is a sin to be with you, talking friendly in this way,” he said. “I must pray very hard every night after leaving you.”

I wasn’t ready for this. We had been working together, almost every day, for weeks. “You are saying I am a sin?”

“Yes. A man must not speak friendly with a woman who is not his wife. I love my wife very much. We have rules. You are not Muslim. But this is not the main thing. It is dangerous. You should be covered.” I instinctively tightened my scarf around my head. “The people of Afghanistan do not want you here.”

“I see.” I stayed calm but was inwardly stunned because, until then, I had thought we understood each other and communicated in ways that were, at times, extraordinary. Now I was a sin.

He went on. “Nobody wants foreigners here. I hate America. In too many ways, I hate America.”

His words sank into silence. We had already discussed what we both viewed as the rampant materialism of U.S. culture. Masud believed that American peacetime society, rife with crime, was the inevitable consequence of spiritual bankruptcy. He feared that Americans in Afghanistan—soldiers, journalists, businessmen, even peacekeepers—would carry with them these same cultural values. I could see, and agree with, some of what he said. Now my Afghan translator, who was becoming my friend, seemed to equate me with an enemy. I was a sin from a nation he loathed.

Tears welling up, I surrendered. “Okay, I understand.” Then I looked up and saw tears coursing down his face. “Masud, why are you crying?” “I cry because I have hurt you,” he said. “Speaking with you is a small sin; this is a big sin. The heart is a holy place, and we must always take care to never hurt one another. I am sorry. Now I must leave.” He rose to his feet, planning to resign as my translator. We were both off balance, but I wanted him to stay. “Wait. Please. You will be part of Afghanistan’s new government. Contact with the West is now inevitable. You will have to deal with foreigners, if for no other reason than to protect what you feel is precious about Islam and Afghan culture. You can be both bridge and gatekeeper for your people.”
The optimist and the fundamentalist were tangled in a web. In the end Masud chose to stay. He was beginning to trust me, and that troubled him. Because I was not Muslim, he had assumed I would never understand his world. Yet my work had taken us together into the raw lives of strangers, giving us common ground where we could challenge each other’s thinking. He entered new words in his notebook that night—“flexibility” and “cultural relativity,” ideas we discussed at length. We then retired to our separate quarters for exhausted sleep.

A month later, the time had come for me to leave. It was snowing. Masud had come to say good-bye. “How do I say good-bye to you?” I said. He struggled to reply. “You have been my closest friend. You have taught me ‘flexible’ and ‘complicated.’ I am a different man because of you.” He paused. “I can no longer hate America, because you are there.” He gave me gifts for my nephews, three small vests of leather and fur. Then he put his hand over his heart, and we parted.

Masud worked his way south over snowy mountains to Kabul, where he was reunited with his family, briefly, before being called upon to help secure remote hostile regions of the country. When he phones me now, he tells me of the “total devastation of buildings, land, and people’s minds.” He worries that aid from the U.S. and other foreign powers will degrade his culture. He cringes when new Afghan leaders who have lived most of their lives abroad talk of a “new Afghanistan” and “globalization.” I’ve never heard him sound so tired, or so sad.
Texas is home to people from all over the world, yet many of us don’t even know who lives next door. Join Bridgebuilders and meet people from every part of the globe. Every Thursday night Bridgebuilders hosts a dinner at the Killeen Community Center. We spotlight a country, and everyone prepares and brings a dish from that country’s native cuisine. Over good food and laughter, we get beyond the surface and learn a lot about the people around us—and ourselves.

Join us this Thursday at 7 P.M. Spotlighted Country: Syria

You’ll be glad you came!

Photograph courtesy of © Don Hammond/CORBIS.
Use “Amir” (pp. 4–6) to answer questions 1–12.

1 Which words from paragraph 1 help the reader understand the meaning of the word vast?
   A in India
   B you know your neighbors
   C as in America
   D among millions

2 Read the following dictionary entry.

   register \re-jə-star\ n 1. a device that automatically enters a sales amount or number 2. a formal or official recording of items, names, or actions 3. an adjustable grill-like device through which heated or cooled air is released into a room 4. the range of an instrument or voice

Which definition best matches the meaning of the word register as it is used in paragraph 9?
   F Definition 1
   G Definition 2
   H Definition 3
   J Definition 4

3 The narrator of this story is originally from —
   A the United States
   B Poland
   C Mexico
   D India

4 What is paragraph 6 mostly about?
   F A young man in the community purposefully frightens his neighbors.
   G The people in the community change their mind about one of their neighbors.
   H The women in the community attempt to take care of one of their neighbors.
   J A young man in the community becomes famous after a daring rescue.

5 In the first paragraph of the story, the narrator uses a metaphor to —
   A establish that U.S. cities are more hospitable than Indian cities
   B describe what he misses most about his native country
   C illustrate patterns of population growth in U.S. cities
   D contrast life in a U.S. city with life in an Indian city

6 This story highlights the conflict between —
   F Americans and people from other countries
   G people’s prejudices and their experiences with one another
   H people who care for the garden and those who harm it
   J teenagers and older people in a neighborhood
7 In paragraph 5, the narrator reveals that he is —
   A willing to change his mind about others
   B distrustful of people from other countries
   C envious of the toughness of Poles
   D well informed about how to grow plants

10 What does paragraph 6 reveal about Royce’s character?
   F He is threatening and aggressive.
   G He is friendly and outgoing.
   H He is kind and modest.
   J He is withdrawn and lonely.

8 Which of these is the most important product of the garden?
   F A sense of community among the neighbors
   G The neighbors’ acceptance of Royce
   H The bounty of fruits and vegetables grown in it
   J Its visual beauty amid the buildings

11 Which of these can the reader conclude about the narrator?
   A He wishes that he could move out of the city and have his own garden.
   B He is more generous with the proceeds of the garden than with those of his business.
   C He would like to hire Royce to work at the fabric store that he manages.
   D He is still angry with the woman who complained in his store about receiving the wrong change.

9 Paragraph 2 represents a —
   A flashback to the narrator’s youth
   B change in the story’s point of view
   C comparison of different cultures
   D foreshadowing of events in the story

12 Which of these best supports the prediction that the narrator is no longer likely to believe generalizations about others?
   F We traded harvests, as we often did.
   G I still do not know, or care, whether she cooks cabbage.
   H She had a seven-block walk to the garden, the same route I took.
   J She’d gotten quite angry and called me . . . a dirty foreigner.
Use “Long Road Home” (pp. 7–10) to answer questions 13–22.

13 In paragraph 16, the words *rife with* mean —
   A full of
   B ready for
   C influenced by
   D defined by

14 In the selection, the author describes her job as a —
   F member of the U.S. military
   G photojournalist for a newspaper
   H translator for foreign journalists
   J religious-political activist

15 Masud strongly opposes —
   A Afghanistan’s new government
   B the beliefs of Islam
   C the Northern Alliance leadership
   D the cultural values of Americans

16 Which of these is the best summary of the selection?
   F The author, an American photojournalist, spent several months traveling the front lines of the war in Afghanistan. She and her Muslim translator developed a deep friendship, in spite of their cultural differences. The two challenged each other’s thinking and changed each other’s lives.
   G A photojournalist recalls her experience in Afghanistan. She describes her experiences among the Afghan people, whose lives were disrupted by war. She explains the difficulties of trying to establish friendships with people who consider Americans the enemy.
   H An American photojournalist and an Afghan interpreter traveled across Afghanistan, interviewing people about ways the war had affected their lives. The Muslim faith of the Afghans came alive for the photojournalist as she heard Koranic stories and witnessed daily prayer and other practices. The interpreter’s anti-American stance caused tension between the two.
   J An American photojournalist spent time in war-torn Afghanistan. She observed firsthand the ravages of war and recorded the information in words and photographs. The photojournalist discovered that it was possible for an American to understand the Afghan conflict.
17 In paragraph 17, the mood changes from —
A confusion to clarity
B tension to peacefulness
C sorrow to hopefulness
D anger to happiness

18 This selection’s point of view helps the reader understand —
F the reasons for fighting among the Afghan people
G the difficulties of bridging two very different cultures
H the daily rituals practiced by Muslims in Afghanistan
J family life in a refugee camp

19 In paragraph 16, the term “spiritual bankruptcy” refers to —
A a lack of moral or religious values
B separation of church and state
C differences among religious traditions
D religious persecution

20 Which of these most likely contributed to the author’s willingness to understand Masud’s point of view?
F Her skills as a writer
G Her support of the Northern Alliance
H Her curiosity about other cultures
J Her hope of changing Masud’s mind

21 Which of these summarizes an essential problem that Masud faced in his friendship with the author?
A “This is a very dangerous time for my country. . . .”
B I was a sin from a nation he loathed.
C I could see, and agree with, some of what he said.
D “I am a different man because of you.”

22 In paragraph 9, the image of the “complex human circle” serves to —
F illustrate the desire for peace among the various groups in Afghanistan
G present a picture of unity in the midst of stark differences among people
H emphasize the frustrations of trying to achieve peace among people
J foreshadow the failure of different groups in Afghanistan to achieve peace
Use “Amir” and “Long Road Home” (pp. 4–10) to answer questions 23–25.

23 How is the garden in “Amir” similar to the war in “Long Road Home”?
   A Both are sources of misunderstandings.
   B Both bring people of different cultures together.
   C Both are causes of economic change.
   D Both reflect religious and cultural values.

25 The authors of both selections are trying to show —
   A different ways that people disagree
   B how misunderstandings cause problems
   C differences among religious faiths
   D the value of insight and understanding

24 Amir and Masud are alike in that both —
   F allow their minds to be changed
   G are from the same country
   H were educated in the United States
   J want to preserve their cultures
Use the visual representation on page 11 to answer questions 26–28.

26  Bridgebuilders created this flyer in order to —
    F  encourage people to help feed hungry families in their community
    G  keep children off the streets and out of trouble at night
    H  teach people about the location of countries around the world
    J  persuade the local community to learn about its origins and diversity

27  Which of the following best describes the symbolism used in the photograph?
    A  The globe represents the heavy burden that everyone must share.
    B  The clouds in the background represent a storm that threatens the community.
    C  The hands imply that all people must share and support Earth as their home.
    D  The globe suggests that the United States is the most important country on Earth.

28  Which of the following is a persuasive technique used in the flyer?
    F  The spotlighted country is one that readers should be familiar with.
    G  Readers are told they will learn about themselves as well as about others.
    H  The photograph shows viewers the benefits of joining Bridgebuilders.
    J  Readers are given clear instructions about what to bring and when to arrive.
DIRECTIONS

Answer the following questions in the space provided on the answer document.

29 In “Amir,” what does the garden symbolize? Support your answer with evidence from the selection.

30 How would you describe the relationship between Masud and the author of “Long Road Home”? Support your answer with evidence from the selection.

31 How is the concept of accepting others important in both “Amir” and “Long Road Home”? Support your answer with evidence from both selections.
WRITTEN COMPOSITION

Write an essay about whether it is important to seek friendships with people who are different from you.

The information in the box below will help you remember what you should think about when you write your composition.

REMEMBER—YOU SHOULD

- write about the assigned topic
- make your writing thoughtful and interesting
- make sure that each sentence you write contributes to your composition as a whole
- make sure that your ideas are clear and easy for the reader to follow
- write about your ideas in depth so that the reader is able to develop a good understanding of what you are saying
- proofread your writing to correct errors in spelling, capitalization, punctuation, grammar, and sentence structure
USE THIS PREWRITING PAGE TO PLAN YOUR COMPOSITION.

MAKE SURE THAT YOU WRITE YOUR COMPOSITION ON THE TWO LINED PAGES IN THE ANSWER DOCUMENT.
USE THIS PREWRITING PAGE TO PLAN YOUR COMPOSITION.

MAKE SURE THAT YOU WRITE YOUR COMPOSITION ON THE TWO LINED PAGES IN THE ANSWER DOCUMENT.
Revising and Editing Sample

DIRECTIONS
Read the introduction and the passage that follows. Then read each question and fill in the correct answer on page 2 of your answer document.

Lydia has written this report for her U.S. history class. As part of a peer conference, you have been asked to read the report and think about what suggestions you would make. When you finish reading the report, answer the questions that follow.

The American Red Cross

(1) The American Red Cross is an organization that aids people all around the world. (2) It started as a result of the efforts of a dedicated woman. (3) That woman was named Clara Barton. (4) It was during the Civil War that Barton began the work that lead to the establishment of the American Red Cross. (5) She assisted on the battlefield by nursing injured soldiers and helping transport supplies. (6) Eventually the Government of the United States selected her to serve as superintendent of nurses for the army.

S-1 What is the most effective way to combine sentences 2 and 3?
   A  It started as a result of the efforts of a dedicated woman, that woman was named Clara Barton.
   B  It started as a result of the efforts of a woman who was dedicated and named Clara Barton.
   C  It started as a result of the efforts of a dedicated woman.
   D  It started as a result of the efforts of a dedicated woman named Clara Barton.

S-2 What change, if any, should be made in sentence 4?
   F  Change was to is
   G  Insert a comma after Civil War
   H  Change lead to led
   J  Make no change

S-3 What change, if any, should be made in sentence 6?
   A  Change Government to government
   B  Change selected to selected
   C  Change her to herself
   D  Make no change
REVISING AND EDITING

DO NOT GO ON TO THE REVISING AND EDITING SECTION. WHEN YOU FINISH THE READING AND WRITTEN COMPOSITION SECTION, RAISE YOUR HAND AND WAIT FOR A TEST ADMINISTRATOR TO ASSIST YOU.
SANDI’S TEACHER ASKED HER TO WRITE A PAPER RELATED TO SETTING A GOAL. SANDI DECIDED TO WRITE A PERSONAL NARRATIVE ABOUT A GOAL SHE HAD ACHIEVED. SHE WANTS YOU TO REVIEW HER PAPER AND THINK ABOUT THE CORRECTIONS AND IMPROVEMENTS SHE SHOULD MAKE. WHEN YOU FINISH READING, ANSWER THE QUESTIONS THAT FOLLOW.

CAR SHOPPING

(1) I had always dreamed of having my own car by the time I was 18, so I launched a vigorous campaign as soon as I turned 17. (2) I began presenting evidence to prove that owning my own automobile is a good idea.

(3) “Wouldn’t it be great, Mom,” I suggested, “if I could run errands for you while you’re at work? (4) Even better, you’d never have to drive me to my after-school job again!”

(5) Another day I added “Have you noticed that I’m always home on time when I borrow your car? (6) Have you noticed that I keep it filled?”

(7) Then there was my favorite argument. (8) “Don’t you like for me to set goals and achieve them?” I asked quite frequent.

(9) It took almost a year of presenting logical arguments, demonstrating responsibility, and earning money to make my dream a reality. (10) Shortly before my 18th birthday, setting out to buy my first car. (11) I asked Uncle Ray and Aunt Ellen to accompany me because they are my family’s shrewdest consumers. (12) Since I had a limited budget, everyone agreed that I should shop for a used car. (13) “It should be something inexpensive with low mileage,” Uncle Ray insisted.
We went straight to a used-car lot near my dad’s office, where we were greeted by a cheerful salesman. My aunt and uncle headed for a small blue sedan with 50,000 miles on the odometer. I went toward a sporty red convertible with 120,000 miles.

“It gets great gas mileage!” Uncle Ray said as he pointed to the sedan.

“It’s RED!” I exclaimed as I danced around the sports car.

“The sedan, my aunt noted, “is reasonably priced.”

“But this one is a convertible!” I pleaded.

“The sedan has good tires,” the salesman stressed.

“This one has a CD player!” I shouted.

“Let’s call your mother,” my overwhelmed relatives finally suggested.

“From my personal experience,” Mom wisely said, “I can tell you that the red car will look great in the repair shop. And considering how many miles are on the engine, it will probably be there most of the time. I think you’d better go with the sedan.”

Little Blue, I must admit, has been an exceptionally good car. With regular oil changes, it keeps humming along. And my aunt and uncle’s van has stayed in pretty good shape, too. Whenever I pass a sporty red convertible being pulled by a tow truck, I just smile!
32 What change should be made in sentence 2?

F Change evidence to evidense
G Change prove to proof
H Change my to her
J Change is to was

35 What change, if any, should be made in sentence 8?

A Change them to it
B Change quite to quiet
C Change frequent to frequently
D Make no change

33 What change, if any, should be made in sentence 5?

A Insert a comma after added
B Change that to it
C Change borrow to borrowed
D Make no change

36 What revision, if any, is needed in sentence 10?

F It was shortly before my 18th birthday, I set out to buy my first car.
G Shortly before my 18th birthday. I set out to buy my first car.
H Shortly before my 18th birthday, I set out to buy my first car.
J No revision is needed.

34 The meaning of sentence 6 can be clarified by changing it to —

F them
G my after-school job
H yours
J the gas tank
37 What change, if any, should be made in sentence 11?
   A Change *accompany* to *accompany*
   B Change *familys* to *family’s*
   C Change *shrewdest* to *most shrewdest*
   D Make no change

40 What transition could be added to the beginning of sentence 26?
   F Fortunately,
   G With that in mind,
   H In contrast,
   J On the other hand,

38 What change, if any, should be made in sentence 19?
   F Insert quotation marks after the first comma
   G Change *noted* to *notes*
   H Change *reasonably* to *reasonable*
   J Make no change

41 What is the most effective way to improve the organization of the last paragraph (sentences 27–30)?
   A Delete sentence 28
   B Switch sentences 28 and 29
   C Delete sentence 29
   D Move sentence 30 to the beginning of the paragraph

39 What change, if any, should be made in sentence 24?
   A Change *personel* to *personal*
   B Change the second comma to a period
   C Change *that* to *it*
   D Make no change
Clayton’s teacher asked him to write a paper about an interesting event. Clayton decided to describe an unusual festival he had read about in the newspaper. He wants you to read his paper and suggest corrections and improvements he should make. When you finish reading, answer the questions that follow.

The Annual Bug Bowl

(1) The annual Bug Bowl, which is put on each spring at Purdue university in West Lafayette, Indiana, started in 1990 as a class project. (2) More than 10,000 visitors each year are brought to the college by this unusual festival now. (3) Many festivals feature the same kinds of activities. (4) Usually there are races, exhibits, and tasty treats. (5) However, this festival is a little different.

(6) At first glance Bug Bowl events may seem rather ordinary, but a more close look reveals some surprises. (7) For example, the races aren’t relay or sack races; they are cockroach races. (8) Held at Purdue’s Roach Hill Downs, these races are quite popular with visitors, who are invited to select their favorite roach and cheer for it to win. (9) Thousands stand and observe as the big brown insects scurry across the ground.

(10) In an adjacent area another unique competitive takes place—cricket spitting. (11) Women, men, girls, and boys compete to see how far they can propel a cricket. (12) This unusual sport is even listed in the Guinness Book of World Records. (13) As of the year 2000, the world record stood at just over 32 feet. (14) National news agencies are always on hand. (15) To take pictures and interview the people who participate in this strange event.

(16) Of course, a festival wouldn’t never be complete without a huge offering of delicious snacks. (17) The Bug Bowl is no exception. (18) On the night before the celebration begin, designated chefs participate in an insect cook-off.
(19) Local professionals judge the “delicious” dishes. (20) In addition to these gourmet items, the following concoctions have been offered at Bug Bowls in years past: Chinese stir-fry with mealworms, chocolate crickets on a stick, and a snack mix made with cereal and wax-moth larvae.

(21) Before visitors leave this festival, many visit the insect petting zoo.

(22) Scientists believe some insects have been on Earth since prehistoric times.

(23) Children line up for the opportunity to hold strange bugs of all kinds.

(24) Most people agree that Purdue’s Bug Bowl is definitely a one-of-a-kind experience!
42 What change should be made in sentence 1?
   F Delete the comma after Bowl
   G Change university to University
   H Delete the comma after West Lafayette
   J Change started to starts

45 What change should be made in sentence 10?
   A Change adjacent to adjacent
   B Change unique to uniquely
   C Change competitive to competition
   D Change takes to took

43 What is the most effective way to revise sentence 2?
   A This unusual festival now brings more than 10,000 visitors to the college each year.
   B Bringing more than 10,000 visitors to the college each year. This is an unusual festival now.
   C This is an unusual festival, it now brings more than 10,000 visitors to the college each year.
   D No revision is needed.

46 What change, if any, should be made in sentence 11?
   F Change compete to competes
   G Change they to you
   H Change a cricket to it
   J Make no change

44 What change should be made in sentence 6?
   F Delete the comma after ordinary
   G Change more close to closer
   H Change reveals to reveal
   J Change surprises to suprises
47 How should sentences 14 and 15 be rewritten?

A National news agencies are always on hand to take pictures. And interview the people who participate in this strange event.

B National news agencies are always on hand to take pictures they interview the people who participate in this strange event.

C National news agencies are always on hand if they take pictures and interview the people who participate in this strange event.

D National news agencies are always on hand to take pictures and interview the people who participate in this strange event.

48 What change should be made in sentence 16?

F Delete the comma after Of course

G Delete never

H Insert it after without

J Change offering to offering

49 What change, if any, should be made in sentence 18?

A Change celebration to celebrates

B Change begin to begins

C Change chefs to chiefs

D Make no change

50 What change, if any, should be made in sentence 19?

F Change professionals to professionals

G Change judge to judging

H Change dishes to dish's

J Make no change

51 What is the most effective way to improve the organization of the last paragraph (sentences 21–24)?

A Delete sentence 21

B Switch sentences 21 and 22

C Delete sentence 22

D Move sentence 24 to the beginning of the paragraph
# Mathematics Chart

## LENGTH

<table>
<thead>
<tr>
<th>Metric</th>
<th>Customary</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 kilometer = 1000 meters</td>
<td>1 mile = 1760 yards</td>
</tr>
<tr>
<td>1 meter = 100 centimeters</td>
<td>1 mile = 5280 feet</td>
</tr>
<tr>
<td>1 centimeter = 10 millimeters</td>
<td>1 yard = 3 feet</td>
</tr>
<tr>
<td></td>
<td>1 foot = 12 inches</td>
</tr>
</tbody>
</table>

## CAPACITY AND VOLUME

<table>
<thead>
<tr>
<th>Metric</th>
<th>Customary</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 liter = 1000 milliliters</td>
<td>1 gallon = 4 quarts</td>
</tr>
<tr>
<td></td>
<td>1 gallon = 128 ounces</td>
</tr>
<tr>
<td></td>
<td>1 quart = 2 pints</td>
</tr>
<tr>
<td></td>
<td>1 pint = 2 cups</td>
</tr>
<tr>
<td></td>
<td>1 cup = 8 ounces</td>
</tr>
</tbody>
</table>

## MASS AND WEIGHT

<table>
<thead>
<tr>
<th>Metric</th>
<th>Customary</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 kilogram = 1000 grams</td>
<td>1 ton = 2000 pounds</td>
</tr>
<tr>
<td>1 gram = 1000 milligrams</td>
<td>1 pound = 16 ounces</td>
</tr>
</tbody>
</table>

## TIME

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 year = 365 days</td>
<td></td>
</tr>
<tr>
<td>1 year = 12 months</td>
<td></td>
</tr>
<tr>
<td>1 year = 52 weeks</td>
<td></td>
</tr>
<tr>
<td>1 week = 7 days</td>
<td></td>
</tr>
<tr>
<td>1 day = 24 hours</td>
<td></td>
</tr>
<tr>
<td>1 hour = 60 minutes</td>
<td></td>
</tr>
<tr>
<td>1 minute = 60 seconds</td>
<td></td>
</tr>
</tbody>
</table>

Metric and customary rulers can be found on the separate Mathematics Chart.
# Mathematics Chart

<table>
<thead>
<tr>
<th><strong>Perimeter</strong></th>
<th>rectangle</th>
<th>( P = 2l + 2w ) or ( P = 2(l + w) )</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Circumference</strong></td>
<td>circle</td>
<td>( C = 2\pi r ) or ( C = \pi d )</td>
</tr>
<tr>
<td><strong>Area</strong></td>
<td>rectangle</td>
<td>( A = lw ) or ( A = bh )</td>
</tr>
<tr>
<td></td>
<td>triangle</td>
<td>( A = \frac{1}{2} bh ) or ( A = \frac{bh}{2} )</td>
</tr>
<tr>
<td></td>
<td>trapezoid</td>
<td>( A = \frac{1}{2} (b_1 + b_2)h ) or ( A = \frac{(b_1 + b_2)h}{2} )</td>
</tr>
<tr>
<td></td>
<td>circle</td>
<td>( A = \pi r^2 )</td>
</tr>
<tr>
<td><strong>Surface Area</strong></td>
<td>cube</td>
<td>( S = 6s^2 )</td>
</tr>
<tr>
<td></td>
<td>cylinder (lateral)</td>
<td>( S = 2\pi rh )</td>
</tr>
<tr>
<td></td>
<td>cylinder (total)</td>
<td>( S = 2\pi rh + 2\pi r^2 ) or ( S = 2\pi r(h + r) )</td>
</tr>
<tr>
<td></td>
<td>cone (lateral)</td>
<td>( S = \pi rl )</td>
</tr>
<tr>
<td></td>
<td>cone (total)</td>
<td>( S = \pi rl + \pi r^2 ) or ( S = \pi r(l + r) )</td>
</tr>
<tr>
<td></td>
<td>sphere</td>
<td>( S = 4\pi r^2 )</td>
</tr>
<tr>
<td><strong>Volume</strong></td>
<td>prism or cylinder</td>
<td>( V = Bh^* )</td>
</tr>
<tr>
<td></td>
<td>pyramid or cone</td>
<td>( V = \frac{1}{3} Bh^* )</td>
</tr>
<tr>
<td></td>
<td>sphere</td>
<td>( V = \frac{4}{3} \pi r^3 )</td>
</tr>
</tbody>
</table>

*B represents the area of the Base of a solid figure.*

**Pi**

\[ \pi \approx 3.14 \quad \text{or} \quad \pi = \frac{22}{7} \]

**Pythagorean Theorem**

\[ a^2 + b^2 = c^2 \]

**Distance Formula**

\[ d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} \]

**Slope of a Line**

\[ m = \frac{y_2 - y_1}{x_2 - x_1} \]

**Midpoint Formula**

\[ M = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right) \]

**Quadratic Formula**

\[ x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \]

**Slope-Intercept Form of an Equation**

\[ y = mx + b \]

**Point-Slope Form of an Equation**

\[ y - y_1 = m(x - x_1) \]

**Standard Form of an Equation**

\[ Ax + By = C \]

**Simple Interest Formula**

\[ I = ptr \]
DIRECTIONS

Read each question. Then fill in the correct answer on your answer document. If a correct answer is not here, mark the letter for “Not here.”

SAMPLE A

Find the slope of the line $2y = 8x - 3$.

A $\frac{-3}{2}$

B 4

C 8

D Not here

SAMPLE B

Janice uses a rectangular box to store her art supplies. The dimensions of the rectangular box are 22.5 inches by 14 inches by 11.5 inches. What is the volume of this box in cubic inches?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.
1 If a line contains the points \((1, -1)\) and \((3, 3)\), which of the following points also lies on this line?

![Graph with a grid and labeled axes](image)

- **A** \((4, 2)\)
- **B** \((2, 4)\)
- **C** \((2, 1)\)
- **D** \((1, 2)\)

2 Identify the situation that best represents the amount \(f(n)\) in the function \(f(n) = 75 + 80n\).

- **F** Alton paid $75 each for \(n\) gifts and spent $80 on himself.
- **G** Bonita spent $75 on registration fees and $80 each for \(n\) credit hours last semester.
- **H** Carlton deposited $75 per month for \(n\) months and an extra $80 in the summer.
- **J** Dylan worked for 75 hours at \(n\) dollars per hour and earned $80 in tips.

3 \(\triangle WXY\) is isosceles.

![Diagram of \(\triangle WXY\) with labeled sides](image)

\(WY\) is 10 centimeters long. Find the length of \(XZ\).

- **A** 5 cm
- **B** 10 cm
- **C** 12 cm
- **D** 13 cm

GO ON
4 Which expression best represents \((3a^2b^7c)(-3ab)(-2a^3bc^3)\)?
   
   F  \(18a^6b^9c^4\)
   G  \(-18a^6b^9c^3\)
   H  \(18a^6b^9c^4\)
   J  \(-8a^6b^9c^4\)

5 Which graph best represents the line that has intercepts at \((5, 0)\) and \((0, -4)\)?

![Graph Options A, B, C, D]
6. The net below can be folded to form a cube.

Which cube could be formed from this net?

7. Which quadratic function has a vertex below the origin and opens upward?
   A. \( y = -x^2 + 3 \)
   B. \( y = -x^2 - 1 \)
   C. \( y = x^2 + 5 \)
   D. \( y = x^2 - 2 \)

8. Mr. Ortega photographed the students in the math club. He arranged the students into 4 parallel rows. Each row had 3 more people than the previous row. If the first 2 rows had a total of 9 people, how many people total were in the group?
   F. 30
   G. 27
   H. 24
   J. 21

Page 42
Mrs. Travis wants to have a clown deliver balloons to her secretary’s office. Clowns R Fun charges $1.25 per balloon and $6 for delivery. Singing Balloons charges $1.95 per balloon and $2 for delivery. What is the minimum number of balloons Mrs. Travis needs to purchase in order for Clowns R Fun to have a lower price than Singing Balloons?

A 5  
B 6  
C 11  
D 12  

The table below shows \( h \), the approximate height of an Ameri-Willow tree after \( t \) years.

<table>
<thead>
<tr>
<th>Age of Ameri-Willow (years)</th>
<th>Height of Ameri-Willow (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>6</td>
<td>49</td>
</tr>
<tr>
<td>7</td>
<td>57</td>
</tr>
<tr>
<td>9</td>
<td>70</td>
</tr>
</tbody>
</table>

Which equation best fits these data?

F \( h = 8.2 + 3.75t \)  
G \( h = 1.12 + 7.82t \)  
H \( h = 7.5 + 0.65t^2 \)  
J \( h = -1.24 + 9.75t \)
11 Look at the triangle graphed on the coordinate grid below.

Which coordinates are the vertices of a triangle congruent to this figure?

A (3, -1), (2, -3), (6, -3)
B (-3, 3), (1, 1), (-2, 1)
C (-4, -1), (0, -1), (-4, -3)
D (3, 1), (2, 3), (-3, 6)

12 Look at the figures below.

If ΔKLM ~ ΔRST, which is closest to the length of ST?

F 15.52 inches
G 9.81 inches
H 7.79 inches
J 12.04 inches
A pharmaceutical company claimed that its product relieves acid indigestion more quickly than any other antacid. The company used the graph below to support its claim.

According to the graph, which statement best describes the company’s product?

A  Its product works faster than some brands but much slower than others.

B  Its product works many times faster than the other brands.

C  Its product works in about the same time as the other brands.

D  Its product works somewhat slower than the other brands shown.
14 The payroll clerk at an appliance store calculates each salesclerk’s weekly salary using the function \( f(x) = 75 + 0.10x \), where \( x \) is each salesclerk’s total weekly sales. The best interpretation of this situation is that each salesclerk is paid —

F $75 plus a 10% commission on the total weekly sales of all the salesclerks
G $75 plus a 10% commission on his or her weekly sales
H $75 plus a 10% commission on the total weekly profit for the store
J the same amount regardless of his or her total weekly sales

15 Look at the diagram below.

When the door handle is pushed down to open the door, it makes a 45° angle with its former position. What is the approximate arc length of the path traveled by the outside end of the door handle when the handle is pushed down?

A 34.56 in.
B 11.88 in.
C 4.32 in.
D 2.16 in.
16 An isosceles triangle has legs that are each \( x \) inches long and a base that is \( y \) inches long. The perimeter of this triangle is 38 inches. The base is 8 inches shorter than the length of a leg. Which system of linear equations can be used to find the length of each of the 3 sides?

\[ F \quad 2x + y = 38 \\
    y = x - 8 \]

\[ G \quad 2x + 2y = 38 \\
    y = x - 8 \]

\[ H \quad 2x + y = 38 \\
    x = y - 8 \]

\[ J \quad 2x + 2y = 38 \\
    x = y - 8 \]

17 Some students want to order shirts with their school logo. One company charges $9.65 per shirt plus a setup fee of $43. Another company charges $8.40 per shirt plus a $58 fee. For what number of shirts would the cost be the same?

\[ A \quad 6 \]

\[ B \quad 12 \]

\[ C \quad 81 \]

\[ D \quad 159 \]

18 How does the graph of \( y = 3x + 2 \) compare to the graph of \( y = 4x + 2 \)?

\[ F \quad \text{The slope of } y = 3x + 2 \text{ is less steep.} \]

\[ G \quad \text{The slope of } y = 3x + 2 \text{ is steeper.} \]

\[ H \quad \text{The graph of } y = 3x + 2 \text{ has a greater } y\text{-intercept.} \]

\[ J \quad \text{The graph of } y = 3x + 2 \text{ has a smaller } y\text{-intercept.} \]
19  The runners on a cross-country team need to buy bottles of water for their next meet. Each runner will buy at least four bottles, and the coach will buy six extra bottles. Which inequality best describes the total number of bottles, \( b \), the runners and coach will buy in terms of \( n \), the number of runners on the team?

A  \( b < 4n + 6 \)  
B  \( b \geq 6n + 4 \)  
C  \( b \geq 4n + 6 \)  
D  \( b < 6n + 4 \)

20  What is the \( y \)-intercept of the linear function described by the data below?

<table>
<thead>
<tr>
<th>( x )</th>
<th>( y )</th>
</tr>
</thead>
<tbody>
<tr>
<td>-6</td>
<td>5.8</td>
</tr>
<tr>
<td>-3</td>
<td>3.4</td>
</tr>
<tr>
<td>2</td>
<td>-0.6</td>
</tr>
<tr>
<td>4</td>
<td>-2.2</td>
</tr>
<tr>
<td>7</td>
<td>-4.6</td>
</tr>
</tbody>
</table>

F  \((0, 1)\)  
G  \((1.25, 0)\)  
H  \((0, -1)\)  
J  \((0, -1.25)\)

21  The years 707, 1001, and 2332 are examples of palindrome numbers. The year 2002 also represents a palindrome number. What is the nearest year before 2002 that also represents a palindrome number?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.
22 In the figure below, circle $M$ and circle $R$ intersect at point $P$.

Which is closest to the length of $LT$?

- F 14 units
- G 11 units
- H 18 units
- J 16 units

23 Which of the following does not describe the graph of the parent function of a quadratic equation?

- A The graph has its vertex at the origin.
- B The graph is a parabola that opens upward.
- C The graph has the $x$-axis as its line of symmetry.
- D The graph has a minimum value at $(0, 0)$.

24 What is the solution set for the equation $4x^2 + 11x - 10 = -7$?

- F $\{-3, 0.25\}$
- G $\{-3.47, 0.72\}$
- H $\{3, -0.25\}$
- J $\{-3.85, 1.1\}$
25 The regular octagon below shows selected positions on a combination lock.

The dial of the lock is turned 90° clockwise and then 45° counterclockwise. Which pair of points can describe the starting and ending points of a marker on the dial of this lock?

A  T to U  
B  S to V  
C  W to V  
D  Z to W  

26 A cylindrical piece of pipe insulation is shown below.

If the insulation is 0.5 inch thick, what is the approximate volume of insulation used?

F  231 in.³  
G  74 in.³  
H  41 in.³  
J  33 in.³
27  Kirk repairs computers. He charges an hourly rate plus a base fee for his services. The table below shows the relationship between \( h \), the number of hours of labor, and \( c \), the total cost for Kirk’s services.

<table>
<thead>
<tr>
<th>Hours, ( h )</th>
<th>Total Cost, ( c )</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$57</td>
</tr>
<tr>
<td>2</td>
<td>$69</td>
</tr>
<tr>
<td>4</td>
<td>$93</td>
</tr>
<tr>
<td>6</td>
<td>$117</td>
</tr>
</tbody>
</table>

If Kirk decides to keep his base fee the same but increase his hourly rate by $2, what will be the total cost for 8 hours of work?

- A  $112
- B  $141
- C  $143
- D  $157

28  Look at the diagram below.

Which of the following relationships must be true?

- F  \( m\angle JNP + m\angle JNL + 57^\circ = 180^\circ \)
- G  \( m\angle NJL + 57^\circ = m\angle JNP \)
- H  \( m\angle JNP = 57^\circ \)
- J  \( m\angle JNL + 57^\circ = m\angle JNP \)

29  Parallelogram \( MPQR \) is shown below.

What are the lengths of diagonals \( MQ \) and \( RP \)?

- A  \( MQ = 10 \) and \( RP = 14 \)
- B  \( MQ = 7 \) and \( RP = 5 \)
- C  \( MQ = 14 \) and \( RP = 10 \)
- D  \( MQ = 2 \) and \( RP = 3 \)

30  Which of the following describes a solid with 1 base and no vertices?

- F  Cone
- G  Sphere
- H  Cylinder
- J  Hemisphere
31. The graph shows the relationship between a 1-ton car’s kinetic energy, $K$, and its velocity, $v$.

If the kinetic energy of the car is proportional to the square of its velocity, then its kinetic energy when traveling at 60 miles per hour is about —

- A 320 kilojoules
- B 480 kilojoules
- C 720 kilojoules
- D 1280 kilojoules

32. A student begins drawing a fractal by dividing each side of an equilateral triangle into 3 segments.

The student then replaces the middle segments with 2 equal segments to form the sides of smaller equilateral triangles.

If the student repeats this process on the 12 sides of the second figure, how many sides will the next figure have?

- F 24
- G 36
- H 48
- J 60
33 An appliance store put one kind of refrigerator and one kind of freezer on sale. The total sales of these two appliances were $8000. The refrigerator was on sale for $750, and the freezer was on sale for $325. If \( f \) represents the number of freezers sold, which expression can be used to determine the number of refrigerators sold during this sale?

\[
\begin{align*}
A & \quad \frac{8000 - 325f}{750} \\
B & \quad \frac{8000 - 750f}{325} \\
C & \quad 8000 - 750f \\
D & \quad 8000 - 325f
\end{align*}
\]

34 Only 4 members of the student council attended a meeting, and they greeted one another with handshakes. Each member shook the hand of each of the other members only once, for a total of 6 handshakes. If all 8 student council members had been present and each member had shaken the hand of each of the other members only once, what would have been the total number of handshakes?

\[
\begin{align*}
F & \quad 10 \\
G & \quad 21 \\
H & \quad 12 \\
J & \quad 28
\end{align*}
\]

35 The volume of a sphere can be found by using the function \( V = \frac{4}{3} \pi r^3 \), where \( V \) represents the volume and \( r \) represents the radius. What is the dependent quantity in this function?

\[
\begin{align*}
A & \quad \pi \\
B & \quad V \\
C & \quad r \\
D & \quad \frac{4}{3}
\end{align*}
\]
The two bar graphs shown below represent the populations and land areas of four states.

Based on the information given in the bar graphs, which of these four states is the least densely populated?

F  Indiana
G  Louisiana
H  Minnesota
J  Wisconsin
37  An insurance company reimbursed members of the Alonzo family 80% of their medical expenses after the family paid the first $1000 of those expenses. If the family members received $160 from the insurance company, what were their total medical expenses?

A  $960  
B  $1200  
C  $1128  
D  $1410

38  Brandon wants to reduce a figure that is 9 inches tall and 16 inches wide so that it will fit on a 9-inch-by-12-inch piece of paper. If he reduces the figure proportionally, what is the maximum size the reduced figure could measure?

F  12 inches by 21 \( \frac{1}{3} \) inches  
G  9 inches by 12 inches  
H  5 \( \frac{1}{16} \) inches by 9 inches  
J  6 \( \frac{3}{4} \) inches by 12 inches

39  The area of this regular polygon is 72 square inches. Find the approximate length of one side of this polygon.

A  12.9 in.  
B  15.8 in.  
C  22.3 in.  
D  24.0 in.
The table shows Cain’s 7 quiz scores for the first 9-week period. Each score is based on a 50-point scale.

### Cain’s Quiz Scores

<table>
<thead>
<tr>
<th>Quiz Number</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>38</td>
</tr>
<tr>
<td>2</td>
<td>45</td>
</tr>
<tr>
<td>3</td>
<td>42</td>
</tr>
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<td>4</td>
<td>48</td>
</tr>
<tr>
<td>5</td>
<td>35</td>
</tr>
<tr>
<td>6</td>
<td>41</td>
</tr>
<tr>
<td>7</td>
<td>45</td>
</tr>
</tbody>
</table>

Which of the following gives the highest value for Cain’s quiz scores for the first 9-week period?

- **F** Mode
- **G** Mean
- **H** Range
- **J** Median
Victor purchased motor oil for $2 a bottle and car wax for $4 a bottle. The inequality $2x + 4y < 16$ can be used to determine the number of bottles of motor oil, $x$, and the number of bottles of car wax, $y$, Victor purchased for less than $16, not including tax. Which of the following ordered pairs best represents a reasonable combination of bottles of motor oil and car wax that Victor could have purchased?

A $(4, 2)$  
B $(2, 3)$  
C $(5, 2)$  
D $(3, 2)$
42 The figure below shows a partial view of Pascal's triangle.

\[
\begin{array}{cccccc}
& & & & & 1 \\
& & & 1 & & \\
& 1 & & 2 & & 1 \\
1 & & 3 & & 3 & & 1 \\
1 & & 4 & & 6 & & 4 & & 1 \\
1 & & 5 & & & & 5 & & 1 \\
1 & & & & 20 & & & & 1 \\
1 & & & & 21 & & & & 1 \\
\end{array}
\]

If each square represents a missing number in Pascal's triangle, which of the following could not be a missing number used to complete the partial view of Pascal's triangle shown above?

- F 24
- G 15
- H 35
- J 10

43 The figure below shows a triangle on top of a rectangle.

If the area of the triangle is 83 square feet, which of the following best represents the area of the rectangle?

- A 405 ft\(^2\)
- B 239 ft\(^2\)
- C 322 ft\(^2\)
- D 166 ft\(^2\)
The formula for the volume of a cylinder with a height of 5 units can be represented as $y = 5\pi x^2$, where $x$ represents the radius. If the cylinder’s height is tripled, what is the effect on the graph of $y$ as a function of $x$?

F  The graph is translated up.
G  The graph remains the same.
H  The graph becomes narrower.
J  The graph becomes wider.

An orange-drink label reads “20% real fruit juice.” The other ingredients are water, sugar, and flavoring.

Orange-Drink Ingredients

![Circle Graph]

Which section of the circle graph best represents the amount of real fruit juice in the orange drink?

A  W
B  X
C  Y
D  Z

A cube-shaped piece of playground equipment has a cylindrical portion removed, as shown in the diagram. The diameter of the opening is 5 feet.

![Cube Diagram]

What is the approximate volume of the remaining portion of the cube?

F  255 ft$^3$
G  122 ft$^3$
H  98 ft$^3$
J  28 ft$^3$
47 Which set of figures can be used to construct a representation of the surface area of the solid shown below?

A

B

C

D
48. In a recent survey conducted at a mall, 18 people between the ages of 10 and 35 were asked how many sit-ups they do for exercise on a weekly basis. The data are shown in the scatterplot below.

According to the data, what is the relationship between a person’s age and the number of sit-ups done on a weekly basis?

F. The younger a person is, the more sit-ups the person does weekly.
G. The older a person is, the more sit-ups the person does weekly.
H. There is a constant correlation between the age of a person and the number of sit-ups done weekly.
J. There is no correlation between a person’s age and the number of sit-ups done weekly.

49. The 3-dimensional figure shown below represents a structure that Corina built with 9 cubes.

Which of the following best represents the top view of Corina’s 9-cube structure?

A
B
C
D
50 Mitch drew lines \(l\), \(k\), and \(t\). Lines \(l\) and \(k\) were parallel to each other. Mitch measured 2 alternate interior angles. He labeled the angles 1 and 2. Which of the following shows angles 1 and 2 correctly labeled?

![Diagram showing angles 1 and 2 labeled on lines \(l\) and \(k\)]

- **F**
- **H**
- **G**
- **J**

51 On a certain math problem, Cynthia mistakenly divided a number by 4 and then subtracted 24 and got 12 for her answer. After reading the problem again, she realized that she should have subtracted 24 before dividing by 4. What was the correct answer?

A  -48
B  -28
C  30
D  144

52 Which two lines are parallel?

- **F** \(6x - 2y = -8\) and \(3x + y = -4\)
- **G** \(3x - y = -1\) and \(9x - 3y = -6\)
- **H** \(12x - 4y = -4\) and \(x - 3y = -9\)
- **J** \(9x - 3y = -6\) and \(5x + 15y = 15\)
The table below shows the relationship between $I$, the current in milliamperes (mA) through a filament, and $t$, the filament’s temperature in degrees Celsius.

<table>
<thead>
<tr>
<th>Temperature, $t$ (°C)</th>
<th>Current, $I$ (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>80</td>
<td>320</td>
</tr>
<tr>
<td>90</td>
<td>360</td>
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<tr>
<td>100</td>
<td>400</td>
</tr>
<tr>
<td>110</td>
<td>440</td>
</tr>
</tbody>
</table>

Which equation best represents the relationship between the quantities in the table?

A $I = \frac{1}{4}t$

B $I = \frac{1}{40}t$

C $I = 40t$

D $I = 4t$

Mrs. Jones has a piece of carpet that is 12 feet long and 2 feet wide. She wants to cut off a section that is 3 feet long and 1 foot wide. She wants to cut up the remaining piece of carpet into 22 pieces that are 1 foot square. Why is this scenario impossible?

F A piece 3 feet long by 1 foot wide cannot be cut from the carpet.

G Some pieces of carpet would be left over.

H There is not enough carpet to cut all the pieces.

J The carpet cannot be cut into 1-square-foot pieces.

The radius of a spherical beach ball is 24 centimeters. If another spherical beach ball has a radius 3 centimeters longer, about how much greater is its surface area, to the nearest square centimeter?

A $37 \text{ cm}^2$

B $113 \text{ cm}^2$

C $1,923 \text{ cm}^2$

D $24,542 \text{ cm}^2$
Below are congruent isosceles triangles arranged in a sequence to obtain a geometric pattern.

Which expression can be used to find the perimeter of a composite figure made up of \( t \) triangles arranged in this pattern?

\[ \text{F} \quad 12t \]
\[ \text{G} \quad 2t + 10 \]
\[ \text{H} \quad 5t + 2 \]
\[ \text{J} \quad 12t - 5 \]
Which graph best represents the equation $y = 2x^2 + 1$?

A

B

C

D
Look at the two polynomials modeled below using algebra tiles.

Which expression describes the sum of the two polynomials in terms of $x$?

- **F** $3x^2 + 12x - 10$
- **G** $3x^4 + 12x^2 - 2$
- **H** $3x^2 + 12x + 2$
- **J** $2x^4 + 35x^2 - 24$

Find the midpoint of the line segment with endpoints $(4, -6.25)$ and $(-15, 12.25)$.

- **A** $(-5.5, 3)$
- **B** $(-9.5, 9.25)$
- **C** $(-11, 6)$
- **D** $(-19, 18.5)$

The math club at Hawthorne High School surveyed 180 students and found that 36 of them have a March birthday. Based on this information, which is the best prediction of the number of students at Hawthorne High School who have a March birthday if there are 867 students enrolled?

- **F** 289
- **G** 173
- **H** 72
- **J** 24

BE SURE YOU HAVE RECORDED ALL OF YOUR ANSWERS ON THE ANSWER DOCUMENT.
## FORMULA CHART

<table>
<thead>
<tr>
<th>Formula</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$D = \frac{m}{v}$</td>
<td>Density = mass/volume</td>
</tr>
<tr>
<td>$Q = (m)(\Delta T)(C_p)$</td>
<td>(heat gained or lost) = (mass in grams)(change in temperature)(specific heat)</td>
</tr>
<tr>
<td>$v = \frac{d}{t}$</td>
<td>Speed = distance traveled/time</td>
</tr>
<tr>
<td>$a = \frac{v_f - v_i}{\Delta t}$</td>
<td>Acceleration = final velocity − initial velocity/change in time</td>
</tr>
<tr>
<td>$p = mv$</td>
<td>Momentum = mass × velocity</td>
</tr>
<tr>
<td>$F = ma$</td>
<td>Force = mass × acceleration</td>
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<tr>
<td>$W = Fd$</td>
<td>Work = force × distance</td>
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<tr>
<td>$P = \frac{W}{t}$</td>
<td>Power = work/time</td>
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<tr>
<td>$% \text{ efficiency} = \frac{W_2}{W_1} \times 100$</td>
<td>$% = \frac{W_D}{W_I} \times 100$</td>
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<tr>
<td>$KE = \frac{1}{2}(mv^2)$</td>
<td>Kinetic energy = $\frac{1}{2}$ (mass × velocity$^2$)</td>
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<tr>
<td>$PE = mgh$</td>
<td>Gravitational potential energy = mass × acceleration due to gravity × height</td>
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<tr>
<td>$E = mc^2$</td>
<td>Energy = mass × (speed of light)$^2$</td>
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<tr>
<td>$v = f\lambda$</td>
<td>Velocity of a wave = frequency × wavelength</td>
</tr>
<tr>
<td>$I = \frac{V}{R}$</td>
<td>Current = voltage/resistance</td>
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<tr>
<td>$P = VI$</td>
<td>Electrical power = voltage × current</td>
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<tr>
<td>$E = Pt$</td>
<td>Electrical energy = power × time</td>
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</tbody>
</table>

### Constants/Conversions

- $g = \text{acceleration due to gravity} = 9.8 \text{ m/s}^2$
- $c = \text{speed of light} = 3 \times 10^8 \text{ m/s}$
- speed of sound = 343 m/s at sea level and 20°C
- 1 cm$^3 = 1 \text{ mL}$
- 1 wave cycle/second = 1 hertz (Hz)
- 1 calorie (cal) = 4.18 joules
- 1000 calories (cal) = 1 Calorie (Cal) = 1 kilocalorie (kcal)
- newton (N) = kg m/s$^2$
- joule (J) = Nm
- watt (W) = J/s = Nm/s
- volt (V) = ampere (A) = ohm (Ω)
### Periodic Table of the Elements

**Atomic number**
- Si

**Symbol**
- Si

**Atomic mass**
- 28.096

**Name**
- Silicon

**Group**
- 14

<table>
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**Mass numbers in parentheses are those of the most stable or most common isotope.**

**Lanthanide Series**
- Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu

**Actinide Series**
- Th, Pa, U, Np, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, Lr

Revised October 15, 2001
DIRECTIONS
Read each question and choose the best answer. Then fill in the correct answer on your answer document.

SAMPLE A

When a 10% hydrochloric acid solution is heated in an open test tube, the test tube should always be pointed —

A so bubbles are visible  
B at a 180° angle from the flame  
C toward a ventilated area  
D away from nearby people
The picture shows a cube that contains 20 mL of a solution. The solution has a mass of 40 grams. What is the density in g/mL of this solution? Record and bubble in your answer on the answer document.
**Organism X**

<table>
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<tr>
<th>Animalia</th>
<th>Vertebrata</th>
<th>Aves</th>
<th><em>Poecile carolinensis</em></th>
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<table>
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<td><em>Bufo americanus</em></td>
<td><em>Poecile gambeli</em></td>
<td><em>Grus americana</em></td>
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1. The chart shows the classification of four organisms found in Texas. Which organism is most closely related to Organism X?

   A. *Anolis carolinensis*
   B. *Bufo americanus*
   C. *Poecile gambeli*
   D. *Grus americana*
The diagram shows a classroom setup for an experiment. This experiment was probably designed to determine wood lice —

**F** social behaviors  
**G** activity patterns  
**H** speed  
**J** habitat preferences
3 Which piece of equipment would be used to precisely measure the volume of an acid?

A

B

C

D
4 In a typical forest community, plants are producers, rabbits are primary consumers, and wolves are secondary consumers. Which diagram correctly represents these relationships?

- F
- H
- G
- J

5 Which of these is the most appropriate unit of measure for reporting the density of a solid?
   - A \( g/cm^3 \)
   - B \( g/cm \)
   - C \( g/L^2 \)
   - D \( g/mm^2 \)

6 The benefits of spines on a cactus are similar to the benefits of the —
   - F scales on a butterfly wing
   - G talons on a hawk
   - H whiskers on a cat
   - J shell on a tortoise
Examining Owl Pellets

1. Obtain owl pellet and place in a dissecting tray
2. Carefully break open the owl pellet with forceps and dissecting needle
3. Remove fur and feathers from the bones
4. Group the recovered bones into mammal and bird skeletons

7. When performing this activity, students must remember to —
   A. label the equipment used
   B. keep hands away from face and mouth
   C. sterilize the dissecting needle before use
   D. disinfect the fur and feathers removed from the pellet
The temperature of the water increases by 8°C when the metal block is added. Which could cause the temperature of the water to increase by 10°C after the metal block is added?

- F Using 500 g of water
- G Using a larger beaker
- H Adding more 20°C water
- J Adding heat to the metal block

The small intestine is to nutrient absorption as the blood is to nutrient —

- A assimilation
- B distribution
- C regulation
- D elimination

Heavy metals such as mercury, cadmium, and nickel are often found in landfills and occasionally leach into rivers, lakes, and other bodies of water. Such heavy metals are toxic to wildlife and to humans. Which of the following sources of environmental contamination is most often associated with these heavy metals?

- F Batteries
- G Plastics
- H Automobile exhaust
- J Tobacco smoke
11 The picture shows the results of a demonstration using the simple water plant *Elodea*. When the setup was placed in strong light, a space gradually appeared above the water in the graduated cylinder containing the plant. The gas in the space above the water was mostly —

A  oxygen  
B  carbon dioxide  
C  hydrogen  
D  nitrogen
The picture above shows the directions in which water leaves this scallop's shell. Which picture below shows the direction the scallop will move?

F  H  G  J
13 A guitar player is seated next to a piano. The piano player strikes an E key on the piano. The guitarist reports that this causes the E string on his guitar to vibrate. What is the name of this phenomenon?

A  Polarization
B  Resonance
C  Reflection
D  Diffraction
A glass is held upside down so that its open end is closed by the water’s surface. Soon air bubbles begin to escape from the glass. The best explanation for this observation is that —

- **F** water condenses on the glass and escapes as a gas
- **G** air in the glass increases the water temperature and causes bubbling
- **H** pressurized water vapor rises rapidly and evaporates
- **J** air trapped in the glass is warmed and expands in volume
Use the information below and your knowledge of science to answer questions 15–19.

**Ancient Greeks and Science**

The ancient Greeks developed a set of assumptions, based on observations, to explain how the universe works. These observations led the Greeks to believe that the universe was composed of four elements: earth, water, fire, and air. The “theory of natural place” was based on their observations of these four elements. The theory stated that anything not in its natural place would move toward its natural place as soon as an opportunity arose. The theory of natural place was the foundation for the modern understanding of the elements. The following chart describes some observations and assumptions made by the ancient Greeks.

<table>
<thead>
<tr>
<th>Object</th>
<th>Observation</th>
<th>Assumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rock</td>
<td>Found in or on the ground; if not on the ground, rocks move toward it at first opportunity</td>
<td>Rocks are made of earth and seek the ground, their natural place.</td>
</tr>
<tr>
<td>Water</td>
<td>Flows over land</td>
<td>Water has its natural place on the ground.</td>
</tr>
<tr>
<td>Fire</td>
<td>Flames flicker upward; the greater the fire, the higher the flames</td>
<td>Fire’s natural place is in the heavens, above the atmosphere.</td>
</tr>
<tr>
<td>Air</td>
<td>Blows across the land; if trapped in water, escapes at first opportunity</td>
<td>Air’s natural place is in the space above the ground.</td>
</tr>
<tr>
<td>Burning wood</td>
<td>Gives off smoke, heat, and ash</td>
<td>Tree limbs are made of fire, earth, and air.</td>
</tr>
<tr>
<td>Smoke</td>
<td>Found in fires; if not confined, rises or moves across the land</td>
<td>Smoke is made of fire and air.</td>
</tr>
<tr>
<td>Feather</td>
<td>Floats to the ground</td>
<td>Feathers are made of air and earth.</td>
</tr>
</tbody>
</table>
15 Which of these fails to support the idea that water's natural place is on the ground?

A  Hailstones  
B  Rain  
C  Waterfalls  
D  Clouds

16 The Greek scholar Aristotle studied plants. He believed that plants obtain everything they need from the soil. Current understanding does not support this belief. Which of the following would least likely be absorbed from the soil?

F  Minerals  
G  H₂O  
H  Nitrates  
J  CO₂

17 A leaf from an apple tree falls to the ground more slowly than an apple falls. As an explanation of this observation, the ancient Greeks' theory of natural place has been replaced by a more recent theory involving gravitational force and —

A  atomic weight  
B  inertial mass  
C  air resistance  
D  kinetic energy

18 Because ancient Greeks lived close to water, they may have enjoyed a more constant climate than if they had lived inland. Water warms up and cools down more slowly than land. This is because of water's —

F  boiling point  
G  specific heat  
H  melting point  
J  specific gravity

19 Today, the observation that an air bubble in water rises to the surface is explained by the principle of —

A  viscosity  
B  buoyancy  
C  interference  
D  polarity
20 When 50 mL of isopropyl alcohol (39.5 g) is added to 50 mL of water (50 g), the mixture will have a volume of 98 mL. What is the mass in grams of this mixture? Record and bubble in your answer to the nearest tenth on the answer document.

21 Two students measured the length of the same stick, each using a different 30 cm ruler. One student reported a length of 22 cm, and the other reported a length of 8 cm. The most likely explanation for the difference in the reported values is that one —

A student improperly read the ruler  
B ruler was metal and the other ruler was plastic  
C student viewed the ruler from a different angle  
D ruler was constructed with nonstandard cm marks

22 Dissolving salt in water increases the conductivity of the solution because the —

F salt gives the solution a net negative charge  
G salt ions bond with the available water molecules  
H solution has an increase in kinetic energy  
J concentration of ions in the solution increases

23 The picture shows a cell model and the solutions associated with it. In this situation the cell model will —

A gain mass  
B shrink  
C increase in solute content  
D start to vibrate
24 Which of these conditions is caused by bacteria?

F  AIDS
G  Seasonal allergies
H  Dental cavities
J  Colds

25 Brown sugar consists of crystals of white sugar coated with molasses. If brown sugar hardens, it can be softened by heating. The most likely reason brown sugar softens when heated is that heat —

A  increases the moisture of sugar
B  decreases the volume of molasses
C  increases the density of sugar
D  decreases the viscosity of molasses
26 Elements found in which shaded area of this periodic table undergo the fewest chemical reactions?

- F Q
- G R
- H S
- J T

27 An increase in greenhouse gases is considered harmful because it —

- A allows more heat to be trapped in the lower atmosphere
- B depletes carbon dioxide in the atmosphere
- C releases energy trapped inside Earth
- D destroys light energy that plants need for photosynthesis

28 “Thymine—guanine—thymine—cytosine” describes —

- F nucleotides within an RNA strand
- G a sequence of bases within a DNA section
- H points of DNA separation during protein synthesis
- J tRNA codons for specific amino acids
The following hypothesis refers to iron in the topsoil found on an island formed from limestone.

Hypothesis: Much of the iron found in the topsoil of the island was carried from Africa by huge dust clouds.

Which study would most likely be used to investigate this hypothesis?

A  Tracking dust clouds with satellite photos
B  Determining the effects of iron on limestone
C  Calculating erosion rates in African limestone mines
D  Analyzing the content of comet dust clouds
30 Liquid 1 and Liquid 2 react to produce a solid and a gas. Which of the following expressions correctly shows how to determine the mass of the gas?

F \((\text{mass of Liquid 1} + \text{mass of Liquid 2}) - \text{mass of solid}\)

G \((\text{mass of Liquid 1} + \text{mass of Liquid 2}) + \text{mass of solid}\)

H \((\text{mass of Liquid 1} \times \text{mass of Liquid 2}) ÷ \text{mass of solid}\)

J \((\text{mass of Liquid 1} - \text{mass of Liquid 2}) ÷ \text{mass of solid}\)

31 This is a short section of mRNA. Which DNA code probably produced this section of mRNA?

A \(3'\text{GCCTUT} 5'\)

B \(5'\text{GCCAUT} 3'\)

C \(3'\text{ATTGCC} 5'\)

D \(5'\text{GCCATA} 3'\)

32 Two competing species can thrive in the same community if they have —

F the same habitat

G different niches

H similar diets

J different life spans

33 Which of the following is the most specific group used to classify organisms?

A Kingdom

B Class

C Genus

D Order
34. The diagram shows relationships of selected species over time. According to this information, which of these species is expected to have the greatest phenotypic difference from the ancestral species?

F. Species Q  
G. Species R  
H. Species T  
J. Species U

35. Enzymes allow viruses to insert their genetic material into the host cell's DNA. The virus benefits from this action by —

A. acquiring the traits of the host cell  
B. causing the host cell to produce viruses  
C. introducing random deadly mutations into the host cell  
D. turning the host cell into a virus

36. The structure of pure water makes it a good —

F. solvent  
G. catalyst  
H. conductor  
J. nutrient

37. The bonding characteristics of oxygen are most similar to the bonding characteristics of —

A. hydrogen  
B. silicon  
C. helium  
D. sulfur
38 Aluminum metal and oxygen gas combine to produce aluminum oxide (\(\text{Al}_2\text{O}_3\)). Which of these is the balanced equation for this reaction?

- **F** \(\text{Al} + \text{O}_2 \rightarrow \text{Al}_2\text{O}_3\)
- **G** \(2\text{Al} + 2\text{O}_2 \rightarrow 2\text{Al}_2\text{O}_3\)
- **H** \(2\text{Al} + 3\text{O}_2 \rightarrow 5\text{Al}_2\text{O}_3\)
- **J** \(4\text{Al} + 3\text{O}_2 \rightarrow 2\text{Al}_2\text{O}_3\)

39 A researcher determined the percentage of electrical energy transformed into different forms of energy by a toaster. The best way to communicate these results is to display the data using a —

- **A** histogram
- **B** circle graph
- **C** line graph
- **D** box-whisker graph

### Electron Configuration

<table>
<thead>
<tr>
<th>Energy level</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrons</td>
<td>2</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

40 According to the periodic table and the information above, which element has this electron configuration?

- **F** Sodium
- **G** Neon
- **H** Magnesium
- **J** Argon

41 Working muscle cells that are deprived of oxygen produce —

- **A** alcohol
- **B** lactic acid
- **C** citric acid
- **D** acetone
A surface wave generated by an earthquake was recorded at Seismic Station 1. Forty seconds later the same wave was recorded at Seismic Station 2. What accounts for the time difference?

- F The origin of the wave is closer to Seismic Station 1.
- G The speed of the wave decreases with distance.
- H The wavelength is longer at Seismic Station 2.
- J The wave frequency increases when the wave passes through soil.

Starting from rest at the center of a skating rink, two skaters push off from each other over a time period of 1.2 s. What is the force of the push by the smaller skater?

- A 16 N
- B 32 N
- C 88 N
- D 100 N
44 A valid study would include a control group containing —

F  bean seed, tomato seed, sunflower seed, and water
G  water and 2% root hormone
H  water only
J  bean seed, tomato seed, sunflower seed, water, and 1% root hormone

45 A sugar cube in a test tube is heated over a Bunsen burner. The sugar cube turns black and has less mass than before it was heated. These changes occur because the sugar has —

A  melted
B  boiled
C  reacted chemically
D  become hydrated
46 What is the approximate difference in gravitational potential energy of the two shaded boxes?

F  19 J
G  39 J
H  59 J
J  79 J
Nine groups of students dissolved as much potassium chloride as possible in water. Each group used 100 mL of water heated to a different temperature. Which graph shows the relationship between solubility and temperature for potassium chloride?
A change within a single base pair in DNA is least likely to be observable if the change affects —

F  the production of a stop codon
G  an unexpressed recessive trait
H  actions of a codominant allele
J  the expression of a sex-linked trait
The diagram represents helium gas expanding to fill a larger container. What is the ratio of the helium gas's density at the final volume to its density at the initial volume?

A  1:1  
B  4:1  
C  1:8  
D  1:50
50 This picture indicates that the chemical represented is —

F pressurized
G corrosive
H flammable
J toxic

51 A cyclist moves at a constant speed of 5 m/s. If the cyclist does not accelerate during the next 20 seconds, he will travel —

A 0 m
B 4 m
C 50 m
D 100 m
<table>
<thead>
<tr>
<th>Organism</th>
<th>Observed Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q</td>
<td>Eukaryotic, photosynthetic, nonvascular, gametophytes larger</td>
</tr>
<tr>
<td></td>
<td>than sporophytes</td>
</tr>
<tr>
<td>R</td>
<td>Eukaryotic, heterotrophic, nonvascular, reproduces with</td>
</tr>
<tr>
<td></td>
<td>spores</td>
</tr>
<tr>
<td>S</td>
<td>Eukaryotic, photosynthetic, vascular, sporophytes larger than</td>
</tr>
<tr>
<td></td>
<td>gametophytes</td>
</tr>
<tr>
<td>T</td>
<td>Eukaryotic, photosynthetic, vascular, reproduces with seeds</td>
</tr>
</tbody>
</table>

52 According to this information, three of these organisms should be placed in the same kingdom. Which organism should be placed in a different kingdom?

- F Q
- G R
- H S
- J T

53 A tick feeding on the blood of a dog is an example of —

- A commensalism
- B parasitism
- C neutralism
- D mutualism
Migraine Headaches!

When the pain of a migraine starts . . .
When the pain of a migraine builds . . .
When the pain is full-blown . . .

Try AvexTec!

AvexTec is a prescription medicine that only your doctor can decide is right for you. AvexTec is not designed to prevent the onset of migraine headaches. Rather, it can relieve migraines once they start. Those diagnosed with uncontrolled high blood pressure and certain types of heart disease should not take AvexTec. Some people without recognized heart disease may have serious heart-related complications. If you believe that you have risk factors for heart disease, such as high blood pressure, high cholesterol, smoking, or a family history of heart disease, or if you are pregnant, nursing, or taking other medications, talk to your doctor.

Call for a valuable coupon toward your first purchase!

54 Which conclusion about AvexTec is supported by information in this advertisement?

F AvexTec is available over the counter at local pharmacies and grocery stores.
G People who take AvexTec every day will seldom experience pain from migraines.
H Research indicates that AvexTec prevents migraine headaches.
J AvexTec can be prescribed to reduce pain from migraines.
According to these anatomical structures, which two animals are probably most closely related?

A  Ape and bat  
B  Bat and bird  
C  Bird and cat  
D  Cat and wolf
SOCIAL STUDIES
DIRECTIONS
Read each question and choose the best answer. Then fill in the correct answer on your answer document.

SAMPLE A

Who served as president of the United States during the Civil War?

A  Thomas Jefferson
B  Andrew Jackson
C  James K. Polk
D  Abraham Lincoln
1 In a democracy, freedom of speech and freedom of the press allow citizens to —

A express opinions on important issues
B disobey controversial laws without consequences
C change government policies through the use of violence
D knowingly publish falsehoods for the purpose of ruining someone’s reputation

2 During World War I and World War II, American women —

F served in Congress in large numbers
G boycotted industries with government contracts
H replaced many men in the civilian workforce
J served in combat positions overseas
Use the photograph and your knowledge of social studies to answer the following question.

This photograph shows child workers in a textile mill. In the late 19th and early 20th centuries, many U.S. employers —

A required vocational training programs for children
B hired children as a source of cheap labor
C sought government regulation of child labor
D provided safe working conditions for child laborers
Use the excerpt and your knowledge of social studies to answer the following question.

Nothing is particularly hard if you divide it into small jobs.

4 The statement above, which describes the innovative manufacturing process of the assembly line, was made by —

F Orville Wright
G Henry Bessemer
H Henry Ford
J Charles Lindbergh
Use the chart and your knowledge of social studies to answer the following question.

<table>
<thead>
<tr>
<th>Colonial Grievance</th>
<th>Constitutional Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taxation without representation</td>
<td>A popularly elected Congress makes tax laws.</td>
</tr>
<tr>
<td>The quartering of British troops in private homes</td>
<td>The Third Amendment forbids the quartering of troops in private homes in peacetime.</td>
</tr>
<tr>
<td>Being transported to Britain to be tried for offenses committed in the colonies</td>
<td>?</td>
</tr>
</tbody>
</table>

Which of the following constitutional remedies best completes the chart above?

A  The First Amendment guarantees freedom of speech.
B  The Eighth Amendment prohibits excessive bail.
C  The Second Amendment grants the right to bear arms.
D  The Sixth Amendment provides for a fair and speedy trial.
Use the diagram and your knowledge of social studies to answer the following question.

Use of threats and intimidation

Call for revenge for the Treaty of Versailles

Promise of more jobs and food

Use of Jews as political scapegoats

6 Which of the following best completes the diagram above?

F The Nazis rise to power in Germany.
G The United States declares a policy of neutrality.
H The military seizes power in Japan.
J The Soviet Union annexes Poland.
Use the table and your knowledge of social studies to answer the following question.

Estimated Indicators of Health in
Selected Countries, 2000–2005

<table>
<thead>
<tr>
<th>Country</th>
<th>Life Expectancy</th>
<th>Infant Mortality Rate (per 1,000 live births)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
<td>Female</td>
</tr>
<tr>
<td>Australia</td>
<td>76.4</td>
<td>82.0</td>
</tr>
<tr>
<td>Bolivia</td>
<td>61.8</td>
<td>66.0</td>
</tr>
<tr>
<td>China</td>
<td>68.9</td>
<td>73.3</td>
</tr>
<tr>
<td>Egypt</td>
<td>66.7</td>
<td>71.0</td>
</tr>
<tr>
<td>Turkmenistan</td>
<td>63.9</td>
<td>70.4</td>
</tr>
</tbody>
</table>

Source: United Nations

7 According to the information in the table, which of the following countries probably has the lowest standard of living?

A Egypt
B Turkmenistan
C Bolivia
D Australia
Use the map and your knowledge of social studies to answer the following question.

**Alexander the Great’s Empire, c. 323 B.C.**

Based on the information on the map, it can be concluded that by around 323 B.C. the empire of Alexander the Great —

- extended north of the Black Sea
- encompassed the entire continent of Asia
- extended from the eastern Mediterranean to India
- included all the territory surrounding the Red Sea
Use the information in the box and your knowledge of social studies to answer the following question.

- Freedom of speech
- Due process of law
- Right to a trial by jury

9 The items listed above are all found in the —

A Articles of Confederation
B Bill of Rights
C Magna Carta
D Declaration of Independence

10 The effectiveness of nonviolent protest for the Civil Rights movement was demonstrated by which of the following?

F The Montgomery bus boycott
G The internment of Japanese Americans
H The Truman Doctrine
J The Good Neighbor policy

11 As a result of technological innovations in the late 1800s and early 1900s, industrialized nations —

A lowered protective tariffs
B eliminated periods of economic depression
C raised their standard of living
D increased immigration restrictions
Use the information in the box and your knowledge of social studies to answer the following question.

Statement 1: We have a responsibility to honor their independence. They fought side by side with us against the Spanish.
Statement 2: They cared for our wounded and did not mistreat the Spanish prisoners.
Statement 3: With their help we were able to surround Manila and capture the Spanish garrison.
Statement 4: In the interest of civilization, we must take their land. These savage heathens are ill equipped to rule their own country.

12 Bias is illustrated in which of the above statements?

F Statement 1
G Statement 2
H Statement 3
J Statement 4
Use the excerpt and your knowledge of social studies to answer the following question.

We have learned that we cannot live alone, at peace; that our own well-being is dependent on the well-being of other nations far away. We have learned that we must live as men, not as ostriches, nor as dogs in the manger.

We have learned to be citizens of the world, members of the human community.

— Franklin D. Roosevelt, Fourth Inaugural Address, January 1945

13 In the speech excerpted above, President Roosevelt argued that the United States needed to abandon its foreign policy of —

A containment  
B imperialism  
C internationalism  
D isolationism
Use the cartoon and your knowledge of social studies to answer the following question.

The point of view expressed in the cartoon is that —

F  the methods used by the Anti-Saloon League contributed to liquor consumption
G  aggressive measures were necessary to address the evils of liquor
H  poverty and crime were not the direct result of liquor consumption
J  disease and waste were caused by the actions of the Anti-Saloon League
Use the diagram and your knowledge of social studies to answer the following question.

The U.S. stock market crashed.

Approximately 25% of Americans were unemployed.

President Herbert Hoover was defeated in the election of 1932.

Which of the following best completes the sequence of events in the diagram?

A. The U.S. economy was stimulated when the United States withdrew from World War II.
B. Progressive Era reforms brought greater government regulation of the economy.
C. The United States reinforced its laissez-faire economic policy.
D. Congress responded to the economic crisis by passing New Deal legislation.
Which of the following occurred as a result of the ratification of the 14th Amendment to the U.S. Constitution?

F Women were granted the right to vote.
G Citizenship was extended to former slaves.
H The authority of the federal judiciary was expanded.
J The rights of immigrants were protected.

Use the table and your knowledge of social studies to answer the following question.

<table>
<thead>
<tr>
<th>Year</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1965</td>
<td>27.2</td>
</tr>
<tr>
<td>1970</td>
<td>33.7</td>
</tr>
<tr>
<td>1975</td>
<td>42.5</td>
</tr>
<tr>
<td>1980</td>
<td>51.2</td>
</tr>
<tr>
<td>1985</td>
<td>59.8</td>
</tr>
<tr>
<td>1990</td>
<td>66.2</td>
</tr>
<tr>
<td>1995</td>
<td>73.8</td>
</tr>
<tr>
<td>2000</td>
<td>78.9</td>
</tr>
</tbody>
</table>

Source: U.S. Census Bureau

The trend represented in the table above most likely resulted from —

F the efforts of the Civil Rights movement
G government support of private schools
H the strengthening of Jim Crow laws
J segregation in public schools

During the Progressive Era, reformers succeeded in making the political process more democratic by enacting legislation that —

A made education mandatory in every state
B provided for the direct election of senators
C allowed 18-year-olds to vote
D provided funds for settlement houses
Use the excerpt and your knowledge of social studies to answer the following question.

The consumer boycott is the only open door in the dark corridor of nothingness down which farm workers have had to walk for many years. It is a gate of hope through which they expect to find the sunlight of a better life for themselves and their families.

— César Chávez

19 According to the excerpt, what did César Chávez advocate to open the door to a better life?

A  Sit-ins
B  Refusal to purchase certain goods
C  Petitions
D  Voter registration drives
Use the diagram and your knowledge of social studies to answer the following question.

Which of the following best completes the diagram above?

- F  Industrialism
- G  Imperialism
- H  Prohibition
- J  Reconstruction
Use the diagram and your knowledge of social studies to answer the following question.

21 Which of the following best completes the diagram above?

A A return to isolationism
B Raids on extremist groups
C Restrictions on immigration
D The impact of demobilization
22 The 1968 Tet offensive in South Vietnam resulted in —

F the capture of Ho Chi Minh by U.S. troops
G the final defeat of North Vietnamese forces
H a loss of public confidence in the U.S. government
J Cambodian attacks on U.S. military bases

23 The best title for the box above is —

A Obstacles to Building the Transcontinental Railroad
B Challenges During the Construction of the Panama Canal
C Difficulties Faced by Pioneers Settling the Great Plains
D Problems Encountered by Immigrants Entering at Ellis Island

24 Which of the following was instrumental in halting the German advance across the Soviet Union during World War II?

F The superior organization of the Soviet forces
G Russian access to the Atlantic Ocean
H The effects of the harsh Russian winter
J The use of atomic weapons by the Soviets

Use the information in the box and your knowledge of social studies to answer the following question.

- Varying elevation
- Tropical climate
- Swampy land
- Rock slides
- Yellow fever
Use the maps and your knowledge of social studies to answer the following question.

Australia

Annual Rainfall

Key:

- Under 10
- 10 to 20
- 20 to 40
- 40 to 80

Five Major Cities

Perth
Melbourne
Sydney
Brisbane
Adelaide

Source: Geoscience Australia

25 Based on the maps above, it can be concluded that —

A the interior regions of Australia have the highest rainfall totals and the most major cities
B the annual rainfall amounts have no impact on the location of the major cities
C most of Australia’s five largest cities are located in areas with high rainfall totals
D low annual rainfall has prevented the growth of large cities along the coastline

26 Clarence Darrow and William Jennings Bryan were the lead attorneys in the famous 1925 case that dealt with —

F the prosecution of suspected anarchists
G an investigation of the U.S. stock market
H the teaching of the theory of evolution in public schools
J violations of antitrust laws by U.S. businesses

27 Which of the following is the most valid statement regarding the long-term effects of the Great Depression?

A The government placed fewer restrictions on large corporations.
B The economic role of the federal government was expanded.
C The government reduced its dependence on foreign trade.
D The American people had less confidence in the nation’s presidential leadership.
Use the table and your knowledge of social studies to answer the following question.

Population, Land Area, and Density for the 10 Largest U.S. Cities: 1990

<table>
<thead>
<tr>
<th>Rank</th>
<th>U.S. City</th>
<th>Population</th>
<th>Land Area (square miles)</th>
<th>Density (average population per square mile)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>New York, NY</td>
<td>7,323,000</td>
<td>309</td>
<td>23,700</td>
</tr>
<tr>
<td>2</td>
<td>Los Angeles, CA</td>
<td>3,485,000</td>
<td>469</td>
<td>7,400</td>
</tr>
<tr>
<td>3</td>
<td>Chicago, IL</td>
<td>2,784,000</td>
<td>227</td>
<td>12,300</td>
</tr>
<tr>
<td>4</td>
<td>Houston, TX</td>
<td>1,631,000</td>
<td>540</td>
<td>3,000</td>
</tr>
<tr>
<td>5</td>
<td>Philadelphia, PA</td>
<td>1,586,000</td>
<td>135</td>
<td>11,700</td>
</tr>
<tr>
<td>6</td>
<td>San Diego, CA</td>
<td>1,111,000</td>
<td>324</td>
<td>3,400</td>
</tr>
<tr>
<td>7</td>
<td>Detroit, MI</td>
<td>1,028,000</td>
<td>139</td>
<td>7,400</td>
</tr>
<tr>
<td>8</td>
<td>Dallas, TX</td>
<td>1,007,000</td>
<td>342</td>
<td>2,900</td>
</tr>
<tr>
<td>9</td>
<td>Phoenix, AZ</td>
<td>983,000</td>
<td>420</td>
<td>2,300</td>
</tr>
<tr>
<td>10</td>
<td>San Antonio, TX</td>
<td>936,000</td>
<td>333</td>
<td>2,800</td>
</tr>
</tbody>
</table>

Source: U.S. Census Bureau

28 Which of the following statements is most accurate, based on the table above?

F  The cities with the greatest land area have the lowest population.
G  Population density is greater in cities located in the North.
H  The cities with the greatest population have the greatest population density.
J  The cities with the greatest land area have the greatest population.

29 Which of the following is guaranteed in the Bill of Rights?

A  The right to vote
B  The right to own property
C  The right to work
D  The right to a public trial

30 Which of the following geographic features contributed most to U.S. isolationism?

F  Wide rivers
G  Large deserts
H  High mountains
J  Vast oceans
Use the cartoon and your knowledge of social studies to answer the following question.

31 The cartoon above expresses the opinion that —

A monopolistic practices by big business are a threat to the United States
B the U.S. government should pass stricter immigration laws
C high protective tariffs are preventing U.S. trade with foreign countries
D the U.S. government must relax regulations on big business
Use the diagram and your knowledge of social studies to answer the following question.

Confederate forces fire on Fort Sumter.

Union forces are victorious at the Battle of Vicksburg.

Lincoln issues the Emancipation Proclamation.

Lincoln delivers his second inaugural address.

32 Which of the following date ranges best completes the diagram?

F 1776–1781
G 1846–1848
H 1812–1814
J 1861–1865

33 The delegates to the Constitutional Convention of 1787 met to correct the defects of the —

A Bill of Rights
B Northwest Ordinance
C Articles of Confederation
D Declaration of Independence
Use the excerpt and your knowledge of social studies to answer the following question.

Excerpt from the First *Lusitania* Note to Germany

In view of recent acts of the German authorities in violation of American rights on the high seas which culminated in the torpedoing and sinking of the British steamship *Lusitania* on May 7, 1915, by which over 100 American citizens lost their lives, it is clearly wise and desirable that the government of the United States and the Imperial German government should come to a clear and full understanding as to the grave situation which has resulted.

— *President Woodrow Wilson, May 13, 1915*

34 What effect did the event described in the excerpt above have on the United States?

F It caused the United States to join Germany in the Triple Alliance.

G It resulted in the creation of the United Nations.

H It led to U.S. rejection of the Treaty of Versailles.

J It influenced U.S. public opinion against Germany.

35 All the events listed above are associated with which period in U.S. history?

A World War II

B The Great Depression

C The Cold War

D The Progressive Era
Use the table and your knowledge of social studies to answer the following question.

**Percentage Change in Population for Texas and the United States**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Texas</td>
<td>20,851,820</td>
<td>22.8%</td>
<td>21,325,018</td>
<td>2.3%</td>
</tr>
<tr>
<td>United States</td>
<td>281,421,906</td>
<td>13.1%</td>
<td>284,796,887</td>
<td>1.2%</td>
</tr>
</tbody>
</table>

Source: U.S. Census Bureau

It can be concluded from the table above that —

- **F** the population of Texas is growing at a faster rate than that of the United States as a whole
- **G** Texas and the United States each experienced the same rate of population growth
- **H** the percentage change in population for Texas was greater than that of any other state
- **J** the poor job market in Texas resulted in a decline in population
Use the excerpt and your knowledge of social studies to answer the following question.

**Excerpt from the Declaration of Independence**

When, in the course of human events, it becomes necessary for one people to dissolve the political bands which have connected them with another . . .

37. **Who is credited with writing most of the document excerpted above?**
   
   A. Samuel Adams  
   B. Thomas Paine  
   C. Thomas Jefferson  
   D. George Washington

38. **What was the significance of the ratification of the 15th Amendment to the U.S. Constitution?**
   
   F. It granted the right to vote to African American men.  
   G. It granted citizenship to Native Americans.  
   H. It outlawed discrimination in public places.  
   J. It provided for the admission of new states to the Union.

Use the excerpt and your knowledge of social studies to answer the following question.

**Excerpt from a Fireside Chat**

We are now in the midst of a war, not for conquest, not for vengeance, but for a world in which this nation, and all that this nation represents, will be safe for our children. We expect to eliminate the danger from Japan, but it would serve us ill if we accomplished that and found that the rest of the world was dominated by Hitler and Mussolini.

— Franklin D. Roosevelt

39. **What event is Roosevelt referring to in the excerpt above?**
   
   A. World War I  
   B. World War II  
   C. The Cold War  
   D. The Korean War
Use the information in the box and your knowledge of social studies to answer the following question.

Great Depression Scenario

1. An investor goes to a broker to buy stock but doesn’t have enough money.
2. The broker allows the investor to buy stock on credit.
3. The broker borrows money from a bank to buy the investor’s stock.
4. The stock market crashes.
5. The broker wants his money from the investor.
6. The bank wants its money from the broker.

40 During the Great Depression, what usually happened when a majority of investors and brokers couldn’t pay back their loans?

F The banks failed.
G The investors went to jail.
H The brokers lost their licenses.
J The government paid off all the loans.

41 The federal government gave land grants to railroads in order to —

A prevent the growth of labor unions in U.S. industries
B promote government ownership of factories
C support the economic development of the West
D prevent European investors from controlling U.S. industry
Use the map and your knowledge of social studies to answer the following question.

**Ongoing United Nations Peacekeeping Operations, 2003**

Source: United Nations Department of Public Information

42 According to the map, in which of the following regions does the United Nations have peacekeeping operations?

F South America  
G Northern Europe  
H Central America  
J The Middle East

43 Which of the following historical periods is most associated with efforts by the U.S. government to promote the political equality of African Americans?

A Gilded Age  
B Civil Rights movement  
C Great Depression  
D Progressive movement
Use the information in the box and your knowledge of social studies to answer the following question.

- Life
- Liberty
- Pursuit of happiness

44 The items listed in the box above are most closely associated with —

F citizenship requirements
G inalienable rights
H limited government
J checks and balances
Use the map and your knowledge of social studies to answer the following question.


45 Which of the following statements about the change in distribution of U.S. electoral votes from 1981 to 2000 is the most accurate?

A Most states bordering the Great Lakes lost electoral votes.
B States along the Pacific Ocean lost more electoral votes than any other region.
C There was no change in the number of electoral votes in most Gulf Coast states.
D States bordering Mexico lost electoral votes.

46 Which of the following is an economic situation in which individuals produce crops for their personal needs rather than for sale?

F Corporate agriculture
G Cooperative farming
H Market-oriented agriculture
J Subsistence farming
Use the poster and your knowledge of social studies to answer the following question.

47 The purpose of World War II posters such as the one above was to encourage women to —

A sell bonds for the war effort
B support government rationing
C play an active role in the war effort
D pursue opportunities in higher education
Use the table and your knowledge of social studies to answer the following question.

<table>
<thead>
<tr>
<th>Country</th>
<th>Total Median Age</th>
<th>Male Median Age</th>
<th>Female Median Age</th>
<th>Total Life Expectancy at Birth</th>
<th>Male Life Expectancy at Birth</th>
<th>Female Life Expectancy at Birth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Afghanistan</td>
<td>18.9</td>
<td>19.1</td>
<td>18.7</td>
<td>46.97</td>
<td>47.67</td>
<td>46.23</td>
</tr>
<tr>
<td>China</td>
<td>31.5</td>
<td>31.2</td>
<td>31.7</td>
<td>72.22</td>
<td>70.33</td>
<td>74.28</td>
</tr>
<tr>
<td>Ethiopia</td>
<td>17.3</td>
<td>17.4</td>
<td>17.3</td>
<td>41.24</td>
<td>40.39</td>
<td>42.11</td>
</tr>
<tr>
<td>France</td>
<td>38.3</td>
<td>36.8</td>
<td>39.8</td>
<td>79.28</td>
<td>75.63</td>
<td>83.11</td>
</tr>
<tr>
<td>Liberia</td>
<td>18.1</td>
<td>17.7</td>
<td>18.4</td>
<td>48.15</td>
<td>47.03</td>
<td>49.3</td>
</tr>
<tr>
<td>Mexico</td>
<td>23.8</td>
<td>22.9</td>
<td>24.6</td>
<td>72.3</td>
<td>69.26</td>
<td>75.49</td>
</tr>
<tr>
<td>United States</td>
<td>35.8</td>
<td>34.5</td>
<td>37.1</td>
<td>77.14</td>
<td>74.37</td>
<td>80.05</td>
</tr>
<tr>
<td>Zimbabwe</td>
<td>18.9</td>
<td>18.9</td>
<td>18.9</td>
<td>39.01</td>
<td>40.09</td>
<td>37.89</td>
</tr>
</tbody>
</table>

Source: CIA World Factbook

Based on the table above, it can be concluded that —

F men have a longer life expectancy than women
G countries with lower median ages also have shorter life expectancies
H deaths from childbirth result in a lower median age for women than for men
J a longer life expectancy is a result of proximity to the equator
Use the cartoon and your knowledge of social studies to answer the following question.

The view expressed in the cartoon above is that —

A both political parties cooperated to establish an effective foreign policy
B the public supported foreign-policy decisions made by the two political parties
C U.S. foreign-policy decisions made the world safer
D neither political party wanted to take responsibility for U.S. foreign-policy decisions
Use the information in the box and your knowledge of social studies to answer the following question.

- Higher wages
- Safer working conditions
- Collective bargaining

50 The items in the box above are most closely associated with the —

F  expansion of U.S. railroads
G  development of labor unions
H  deregulation of big business
J  rise of organized crime
Use the map and your knowledge of social studies to answer the following question.

Europe During World War II, 1942

Key:
- Neutral nations
- Axis powers before Sept. 1939
- Extent of Axis control by Nov. 1942
- Allies

51 Which of these geographic features most likely played a significant role in preventing the Axis powers from taking control of Great Britain during World War II?

A  The Alps
B  The Rhine River
C  The English Channel
D  The Mediterranean Sea
Use the information in the box and your knowledge of social studies to answer the following question.

- To find better jobs with higher wages
- To escape prejudice and discrimination
- To search for better housing
- To gain more political rights

52 The items in the box describe the reasons for the —

F mass migration of African Americans to northern cities in the early 1900s
G limits placed on European immigration in the 1930s
H government’s abandonment of laissez-faire economic policy in the 1920s
J development of political parties in the 1790s

53 One of the main reasons that air pollution increased in the 1950s was the —

A shift from the use of natural gas to electricity to heat homes
B new government legislation to regulate defense industries
C population shift as people moved from cities to rural areas
D growing use of automobiles resulting from the development of suburbs
Use the map and your knowledge of social studies to answer the following question.

Countries at Risk for Yellow Fever, 1985–2002

Key:
- At risk for yellow fever
- Reported outbreak of yellow fever

Source: World Health Organization
† Data as of November 2002

54 It can be concluded from the map that —

F the threat of yellow fever has been eliminated in the Western Hemisphere
G South America has had more outbreaks of yellow fever than Africa has had
H outbreaks of yellow fever have been a problem in South America and Africa
J the Caribbean Islands have not been at risk for yellow fever
Use the headline and your knowledge of social studies to answer the following question.

**Daily News**
December 8, 1941

JAPANESE ATTACK
U.S. MILITARY BASE AT
PEARL HARBOR, HAWAII

The event referred to in the headline above led directly to the —

A collapse of the U.S. stock market
B formation of the North Atlantic Treaty Organization
C entry of the United States into World War II
D beginning of the Cold War

BE SURE YOU HAVE RECORDED ALL OF YOUR ANSWERS ON THE ANSWER DOCUMENT.