

Digital SAT Practice Test 3

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How to take this test

1. Reading and Writing, Module 1: 27 questions, 32 minutes.
2. Check Module 1 with the answer key at the back. If you got **15 or more** right, take Module 2 (Harder). Otherwise take Module 2 (Easier). 32 minutes.
3. Take a 10-minute break.
4. Math, Module 1: 22 questions, 35 minutes. Use Desmos or any graphing calculator.
5. Check Math Module 1. If you got **12 or more** right, take Math Module 2 (Harder). Otherwise take Module 2 (Easier). 35 minutes.
6. Go to satowl.com/score, choose Practice Test 3, and enter your answers.

Want the computer version? The real SAT is taken in the Bluebook app, so practice on a screen too. SAT Owl's online test at satowl.com/test is timed and adapts automatically, like test day.

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Answer sheet

Circle or write your answers here, then enter them at satowl.com/score. Fill in only the Module 2 you took in each section.

Reading and Writing, Module 1

1 A B C D	2 A B C D	3 A B C D	4 A B C D
5 A B C D	6 A B C D	7 A B C D	8 A B C D
9 A B C D	10 A B C D	11 A B C D	12 A B C D
13 A B C D	14 A B C D	15 A B C D	16 A B C D
17 A B C D	18 A B C D	19 A B C D	20 A B C D
21 A B C D	22 A B C D	23 A B C D	24 A B C D
25 A B C D	26 A B C D	27 A B C D	

Reading and Writing, Module 2 (Easier)

1 A B C D	2 A B C D	3 A B C D	4 A B C D
5 A B C D	6 A B C D	7 A B C D	8 A B C D
9 A B C D	10 A B C D	11 A B C D	12 A B C D
13 A B C D	14 A B C D	15 A B C D	16 A B C D
17 A B C D	18 A B C D	19 A B C D	20 A B C D
21 A B C D	22 A B C D	23 A B C D	24 A B C D
25 A B C D	26 A B C D	27 A B C D	

Reading and Writing, Module 2 (Harder)

1 A B C D	2 A B C D	3 A B C D	4 A B C D
5 A B C D	6 A B C D	7 A B C D	8 A B C D
9 A B C D	10 A B C D	11 A B C D	12 A B C D
13 A B C D	14 A B C D	15 A B C D	16 A B C D
17 A B C D	18 A B C D	19 A B C D	20 A B C D
21 A B C D	22 A B C D	23 A B C D	24 A B C D
25 A B C D	26 A B C D	27 A B C D	

Math, Module 1

1 A B C D	2 A B C D	3 A B C D	4 A B C D
5 A B C D	6 A B C D	7 A B C D	8 A B C D
9 _____	10 A B C D	11 A B C D	12 A B C D
13 A B C D	14 _____	15 _____	16 _____
17 A B C D	18 A B C D	19 A B C D	20 _____
21 _____	22 _____		

Math, Module 2 (Easier)

1 A B C D

2 A B C D

3 A B C D

4 A B C D

5 A B C D

6 A B C D

7 A B C D

8 A B C D

9 A B C D

10 A B C D

11 A B C D

12 _____

13 _____

14 _____

15 _____

16 A B C D

17 A B C D

18 A B C D

19 A B C D

20 A B C D

21 _____

22 _____

Math, Module 2 (Harder)

1 A B C D

2 A B C D

3 A B C D

4 A B C D

5 A B C D

6 _____

7 _____

8 A B C D

9 A B C D

10 A B C D

11 A B C D

12 A B C D

13 A B C D

14 A B C D

15 A B C D

16 _____

17 _____

18 _____

19 _____

20 _____

21 _____

22 _____

Reading and Writing, Module 1

27 questions
32 minutes

Each question has one or more passages. Read each passage and question carefully, then choose the best answer. Every question has a single best answer.

- 1** Text 1: Some nutritionists recommend that people avoid all dietary fat, arguing that fat is the main cause of weight gain and heart disease.

Text 2: Not all fats affect health in the same way. Research has shown that unsaturated fats, found in foods such as olive oil, nuts, and fish, can lower levels of harmful cholesterol and reduce the risk of heart disease. Trans fats, by contrast, raise that risk.

Based on the texts, how would the author of Text 2 most likely respond to the recommendation in Text 1?

- A) By agreeing that people should avoid all fats
- B) By claiming that fish is generally unhealthy
- C) By suggesting that trans fats lower the risk of heart disease
- D) By arguing that the recommendation overlooks important differences among types of fat

- 2** Text 1: Some city planners argue that adding more lanes to crowded highways is the best way to reduce traffic congestion. More lanes, they say, let more cars travel at once, so trips become faster for everyone.

Text 2: Transportation researchers have documented a pattern called induced demand. When a highway is widened, driving becomes more convenient, so more people choose to drive. Within a few years, traffic on many widened highways returns to its earlier level of congestion.

Based on the texts, how would the transportation researchers in Text 2 most likely respond to the planners' argument in Text 1?

- A) They would agree that adding lanes permanently reduces congestion.
- B) They would argue that highways should have fewer lanes than they currently do.
- C) They would point out that added lanes may attract more drivers, limiting any lasting reduction in congestion.
- D) They would claim that most people prefer public transportation to driving.

3 Text 1: Many people believe that goldfish have memories that last only a few seconds. This belief has made the goldfish a common symbol of forgetfulness.

Text 2: Researchers have trained goldfish to push a lever for food at a particular time of day and to respond to specific sounds. In some experiments, goldfish remembered what they had learned for months.

Based on the texts, how would the researchers in Text 2 most likely respond to the belief described in Text 1?

- A) By pointing out that goldfish can remember learned behaviors for long periods
 - B) By agreeing that goldfish forget everything within a few seconds
 - C) By claiming that goldfish remember sounds but not times of day
 - D) By arguing that goldfish are more intelligent than other fish
-

4 Although the novelist is known for intricate plots, her latest book is _____ in structure. It follows a single character through a single day, with no flashbacks or shifts in point of view.

Which choice completes the text with the most logical and precise word or phrase?

- A) convoluted
 - B) straightforward
 - C) fragmented
 - D) ambitious
-

5 Composer Florence Price's Symphony in E Minor, performed by the Chicago Symphony Orchestra in 1933, was the first symphony by a Black woman to be played by a major American orchestra. Price drew on spirituals and on dance rhythms such as the juba, _____ these traditions into the formal structure of the European symphony to create a work that was distinctly her own.

Which choice completes the text with the most logical and precise word or phrase?

- A) isolating
 - B) weaving
 - C) abandoning
 - D) withholding
-

6 The following text is from a 1909 novel by Bernard Ashcombe.

Colonel Wythe had a way of _____ any disagreement before it began. If a guest at his table seemed about to dispute some point, the colonel would at once turn the conversation to the weather, or the harvest, or the merits of the soup, and the dispute would never come.

Which choice completes the text with the most logical and precise word or phrase?

- A) inciting
 - B) prolonging
 - C) mediating
 - D) forestalling
-

7 Text 1: Historians have long debated whether the Industrial Revolution improved living standards for British workers between 1780 and 1850. So-called optimists point to rising average real wages, especially after 1820, as evidence that ordinary people's lives grew better.

Text 2: Economic historian Owen Pryce argues that wage data alone cannot settle the question. Workers moving to industrial cities often earned more, but they also faced crowded housing, polluted water, and higher death rates. Average height among army recruits, a rough measure of childhood nutrition and health, actually fell for some groups born during the period. Rising wages, Pryce contends, may have been partly compensation for worse living conditions.

Based on the texts, how would Pryce most likely respond to the optimists' argument in Text 1?

- A) He would deny that average real wages rose after 1820.
 - B) He would argue that workers in industrial cities earned less than rural workers did.
 - C) He would contend that height measures income more accurately than wages do.
 - D) He would argue that rising wages, though real, may not reflect improved overall well-being, because other measures of living conditions worsened.
-

8 Some historians portray the treaty as a triumph of diplomacy. Yet the negotiators' own letters reveal that neither side believed the agreement would last, and each signed it chiefly to buy time to rearm. Far from settling the conflict, the treaty was, in one historian's words, merely a _____ arrangement.

Which choice completes the text with the most logical and precise word or phrase?

- A) magnanimous
 - B) clandestine
 - C) definitive
 - D) provisional
-

- 9** Before the invention of mechanical refrigeration, people in cold climates often cut blocks of ice from frozen lakes in winter and stored them in icehouses packed with sawdust. The sawdust slowed the flow of heat into the ice. In some icehouses, ice cut in January lasted until the following September. This suggests that _____

Which choice most logically completes the text?

- A) well-insulated icehouses could preserve ice through most of the warm months of the year.
- B) sawdust was more expensive than ice in the years before refrigeration.
- C) lakes in cold climates froze only during the month of January.
- D) mechanical refrigeration was invented mainly to replace sawdust.

10

Year	Plug-in electric vehicles (% of new cars sold)
2015	22
2017	39
2019	56
2021	86

A transportation analyst studying car sales in one European country claims that by 2021, plug-in electric vehicles made up a large majority of the new cars sold there.

Which choice most effectively uses data from the table to support the analyst's claim?

- A) In 2015, plug-in electric vehicles accounted for 22% of new cars sold.
- B) The share of new cars sold that were plug-in electric vehicles rose from 39% in 2017 to 56% in 2019.
- C) The share of plug-in electric vehicles in 2017 was less than half the share in 2021.
- D) In 2021, plug-in electric vehicles accounted for 86% of new cars sold.

11

A team of agricultural scientists hypothesized that planting clover between rows of corn would reduce soil erosion on sloped fields, because clover roots help hold soil in place during heavy rains. The team set up test plots on several hillside farms to find out.

Which finding, if true, would most directly support the team's hypothesis?

- A) Corn in plots with clover grew to the same height as corn in plots without clover.
- B) Clover planted on flat fields produced more flowers than clover planted on slopes.
- C) Farmers in the study reported that clover seed was inexpensive.
- D) After heavy rains, plots with clover between the corn rows lost less soil than plots without clover.

- 12** The following text is from an 1887 novel by Clara Bellweather. Daniel, a young clerk, has just been promoted.

Daniel had imagined this moment for three years, and in his imagination it had always come with a rush of joy. Now that Mr. Graves had shaken his hand and named the new salary, Daniel felt only a mild surprise, as though he had been told the hour. He walked home by his usual route, past the usual shops, and found that the promotion had changed nothing he could see.

Which choice best states the main idea of the text?

- A) Daniel is angry that his promotion came three years later than he had hoped.
 - B) Daniel decides to celebrate his promotion by visiting new shops.
 - C) Daniel finds that reaching a long-awaited goal feels less significant than he had expected.
 - D) Daniel is unsure whether he has actually been promoted.
-

- 13** In the Middle Ages, books were copied by hand, and copyists sometimes made errors that were then repeated in every later copy made from their work. Scholars today compare surviving manuscripts of a text to trace these shared errors. When two manuscripts contain the same unusual mistake, scholars conclude that _____

Which choice most logically completes the text?

- A) one was probably copied from the other, or both were copied from a common source.
 - B) both were copied by the same person on the same day.
 - C) neither manuscript contains any other errors.
 - D) the original author made the mistake on purpose.
-

- 14** Urban heat islands, areas of cities that are much hotter than the surrounding countryside, are usually attributed to dark pavement and rooftops that absorb sunlight. A study of three cities by environmental engineer Yuna Seo complicates that explanation. Seo found that neighborhoods with similar amounts of pavement differed in temperature by as much as 4 degrees Celsius, and that the strongest predictor of these differences was tree cover. Pavement matters, Seo concludes, but the absence of shade may matter more.

Which choice best states the main idea of the text?

- A) Seo's study suggests that tree cover may be more important than pavement in explaining temperature differences within cities.
 - B) Seo's study shows that dark pavement has no effect on urban temperatures.
 - C) Seo's study found that cities are no hotter than the surrounding countryside.
 - D) Seo's study demonstrates that rooftops absorb more sunlight than pavement does.
-

- 15** Translators of poetry face a familiar dilemma: a translation that keeps a poem's literal meaning often loses its rhythm and rhyme, while one that keeps its music must alter its meaning. Translator Ilse Varga argues that this dilemma, though real, is often overstated. In her view, every reading of a poem, even in its original language, involves choosing which of its qualities to attend to; a translator merely makes those choices visible. Translation, she suggests, differs from ordinary reading in degree rather than in kind.

Which choice best states the main idea of the text?

- A)** Varga argues that translating poetry is impossible because meaning and music cannot both be preserved.
 - B)** Varga claims that translators should always preserve a poem's rhythm rather than its literal meaning.
 - C)** Varga contends that the choices a translator makes resemble those every reader makes, so translation is less unusual a problem than it seems.
 - D)** Varga asserts that readers of a poem in its original language notice all of its qualities at once.
-

- 16** The world's largest coral reef system, the Great Barrier _____ stretches more than 2,300 kilometers along the northeastern coast of Australia. It is made up of nearly 3,000 individual reefs.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A)** Reef;
 - B)** Reef
 - C)** Reef—
 - D)** Reef,
-

- 17** The Venus flytrap catches insects with specialized leaves lined with tiny trigger hairs. When an insect touches two of these hairs in quick succession, the leaf responds immediately: _____ snaps shut in less than a second.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A)** they
 - B)** them
 - C)** it
 - D)** those
-

- 18** Mount Kilimanjaro, in Tanzania, is the highest mountain in Africa. Despite its location near the _____ its summit has been capped with glaciers for thousands of years.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) equator,
- B) equator;
- C) equator.
- D) equator:

-
- 19** The Great Pyramid of Giza, _____ for the pharaoh Khufu around 2560 BCE, remained the tallest human-made structure in the world for more than 3,800 years.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) builds
- B) was built
- C) built
- D) is built

-
- 20** Organisms _____ thrive in extreme conditions, such as boiling hot springs or highly acidic lakes, are known as extremophiles. Studying them helps scientists imagine where life might exist on other worlds.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) , that
- B) that
- C) that,
- D) , that,

-
- 21** A recent museum exhibition featured the work of three American photographers: Gordon Parks, who documented American life for Life magazine _____ Dorothea Lange, known for her images of the Great Depression; and Ansel Adams, famous for his photographs of the American West.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) ,
- B) ;
- C) :
- D) (no punctuation)

22 In the 1970s, astronomer Vera Rubin found that stars at the outer edges of spiral galaxies orbit just as fast as stars near their centers. Astronomers then had to explain why this _____ the leading explanation is that galaxies contain large amounts of unseen "dark matter."

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) happens?
- B) happens;
- C) happens,
- D) happens

23 Some parts of the Atacama Desert in Chile receive less than one millimeter of rain per year. _____ very few plants or animals can survive in those areas.

Which choice completes the text with the most logical transition?

- A) For instance,
- B) As a result,
- C) In contrast,
- D) Similarly,

24 To make traditional washi paper, Japanese papermakers first harvest the inner bark of the kozo shrub and soak it in water. They then boil the bark and beat it by hand to separate its fibers. _____ the fibers are mixed with water and a plant-based thickener and scooped onto a bamboo screen to form sheets of paper.

Which choice completes the text with the most logical transition?

- A) Previously,
 - B) Finally,
 - C) Regardless,
 - D) Instead,
-

25

While researching a topic, a student has taken the following notes:

- Edmonia Lewis (c. 1844–1907) was an American sculptor of African American and Ojibwe descent.
- She spent most of her career working in Rome.
- Her marble sculpture *The Death of Cleopatra* was exhibited at the 1876 Centennial Exhibition in Philadelphia.
- The sculpture was later lost for decades.
- It was rediscovered in the 1980s and is now in the collection of the Smithsonian American Art Museum.

The student wants to emphasize that the sculpture was missing for a long time before reaching its current home. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) Edmonia Lewis's *The Death of Cleopatra* was exhibited at the 1876 Centennial Exhibition in Philadelphia.
- B) Edmonia Lewis, who spent most of her career in Rome, created the marble sculpture *The Death of Cleopatra*.
- C) After being lost for decades, Edmonia Lewis's *The Death of Cleopatra* was rediscovered in the 1980s and is now held by the Smithsonian American Art Museum.
- D) *The Death of Cleopatra*, now held by the Smithsonian American Art Museum, was created by an American sculptor of African American and Ojibwe descent.

26

While researching a topic, a student has taken the following notes:

- Ötzi is a naturally mummified man found in the Ötztal Alps in 1991.
- He lived around 3300 BCE.
- An arrowhead was found lodged in his left shoulder.
- Analysis of his stomach showed that he ate a meal of ibex meat shortly before he died.
- Researchers concluded that he was most likely killed by the arrow wound.

The student wants to present the researchers' conclusion about Ötzi's death along with the evidence for it. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) Ötzi, who lived around 3300 BCE, was found in the Ötztal Alps in 1991.
- B) Shortly before he died, Ötzi ate a meal of ibex meat.
- C) Because an arrowhead was found lodged in Ötzi's left shoulder, researchers concluded that the arrow wound most likely killed him.
- D) Researchers concluded that Ötzi, a mummified man found in 1991, had most likely been killed.

27 Beginning in the 1860s, workers for the Central Pacific Railroad laid track eastward from Sacramento, California, through the steep Sierra Nevada. _____ crews for the Union Pacific Railroad laid track westward from Omaha, Nebraska. The two lines met at Promontory Summit, Utah, in May 1869, completing the first transcontinental railroad.

Which choice completes the text with the most logical transition?

- A) Afterward,
- B) As a result,
- C) In other words,
- D) Meanwhile,

STOP. If you finish before time is up, check your work on this module only.

Reading and Writing, Module 2 (Easier)

27 questions
32 minutes

Each question has one or more passages. Read each passage and question carefully, then choose the best answer. Every question has a single best answer.

- 1** Before vaccines were developed, measles infected nearly every child in the United States. Once a vaccine became widely available in the 1960s, the number of cases _____ dramatically, falling by more than 99 percent within a few decades.

Which choice completes the text with the most logical and precise word or phrase?

- A) declined
- B) multiplied
- C) fluctuated
- D) persisted

- 2** The bristlecone pines of the White Mountains in California grow extremely slowly, adding only a thin layer of wood each year. Their _____ is remarkable: some living bristlecones are more than 4,000 years old.

Which choice completes the text with the most logical and precise word or phrase?

- A) height
- B) color
- C) longevity
- D) fragility

- 3** Rachel Carson's 1962 book *Silent Spring* described how pesticides such as DDT harmed birds and other wildlife. The book reached a huge audience and helped _____ public concern about pollution, contributing to new environmental laws in the following decade.

Which choice completes the text with the most logical and precise word or phrase?

- A) conceal
- B) awaken
- C) measure
- D) postpone

4 Text 1: Many parents worry that video games harm children's attention spans. They argue that the fast pace of games makes ordinary activities, such as reading, seem boring by comparison.

Text 2: Several studies have found that people who regularly play action video games do better on certain tests of visual attention, such as tracking several moving objects at once, than people who do not play. These players also respond faster without becoming less accurate.

Based on the texts, how would the author of Text 2 most likely respond to the parents' concern in Text 1?

- A) By agreeing that video games make reading seem boring
 - B) By noting that video games may improve some kinds of attention
 - C) By claiming that children should play video games instead of reading
 - D) By arguing that video games have no effect at all on players
-

5 Most people picture volcanoes as tall cones that erupt in explosive blasts. Shield volcanoes, such as Mauna Loa in Hawaii, look very different. Built up from thousands of fluid lava flows, they have broad, gently sloping sides that resemble a warrior's shield lying on the ground. Their eruptions are usually calm, with lava pouring steadily out of vents rather than bursting into the air.

Which choice best states the main purpose of the text?

- A) To explain why explosive volcanoes are more dangerous than shield volcanoes
 - B) To argue that Mauna Loa is likely to erupt again in the near future
 - C) To compare the lava of Hawaiian volcanoes with lava from other regions
 - D) To describe a type of volcano that differs from a common image of volcanoes
-

6 Text 1: Some historians attribute the success of the Wright brothers' 1903 flight mainly to their engine. They note that the brothers designed and built a lightweight engine of their own when no manufacturer could supply one that suited their needs.

Text 2: The Wrights' engine was in fact modest, producing only about 12 horsepower. Their decisive advance was a method for controlling an aircraft in the air, which they called wing warping. Earlier experimenters had built machines that could briefly leave the ground; what none had solved was how to keep them balanced and steer them once aloft.

Based on the texts, how would the author of Text 2 most likely respond to the historians' view in Text 1?

- A) By agreeing that the Wrights' engine was the most powerful of its time
 - B) By claiming that the Wrights did not actually build their own engine
 - C) By arguing that the Wrights' method of controlling the aircraft, rather than its engine, was their most important achievement
 - D) By suggesting that earlier experimenters had already invented wing warping
-

- 7** The following text is from a 1921 poem by Lydia Fenn.

I kept your letters in a cedar box
And read them till the folded edges tore;
I know them as one knows the creaking stair,
The sound of every latch on every door.
And yet I've never answered one. I find
The words I need are nowhere in my store.

Which choice best describes the function of the last two lines in the text as a whole?

- A)** They reveal that the speaker, despite treasuring the letters, has been unable to reply to them.
 - B)** They explain where and how the speaker stored the letters.
 - C)** They describe the speaker's house in greater detail.
 - D)** They express the speaker's anger at the person who wrote the letters.
-

- 8** Text 1: Many educators favor homework for elementary school students, arguing that it builds study habits and reinforces lessons taught in class. Students who practice skills at home, they say, will be better prepared for the demands of later grades.

Text 2: Reviews of research on homework show a clear link between homework and achievement for high school students but little measurable benefit for students in the early grades. For young children, short periods of reading for pleasure may be more valuable than worksheets.

Based on the texts, how would the author of Text 2 most likely respond to the educators' argument in Text 1?

- A)** By agreeing that worksheets are the most effective form of homework for young students
 - B)** By pointing out that evidence of homework's academic benefits is weak for young students
 - C)** By arguing that high school students should not be assigned homework
 - D)** By claiming that reading for pleasure harms young students' study habits
-

- 9** Honeybees share the location of food through a "waggle dance." A bee that has found food performs the dance inside the hive, and the length of time it spends wagging shows how far away the food is: the longer the waggle, the greater the distance. If one bee waggles for much longer than another bee does, it is likely that _____

Which choice most logically completes the text?

- A)** the first bee is older than the second bee.
 - B)** the second bee did not find any food.
 - C)** both bees found food in the same place.
 - D)** the first bee found food farther from the hive than the second bee did.
-

- 10** The town of Millbrook opened a new public library in 2015. In the year after it opened, the number of library cards issued in the town doubled, and attendance at the library's children's story hours tripled. These results suggest that _____

Which choice most logically completes the text?

- A) the old library had offered no programs for children.
- B) most residents of Millbrook stopped buying books.
- C) the new library drew more residents to use library services.
- D) Millbrook's population doubled in 2015.

- 11** Many ancient Greek statues that look pure white in museums today were originally painted in bright colors. Over the centuries, most of the paint wore away or was removed during cleaning. Using ultraviolet light, researchers have detected faint traces of pigment on many of these statues. These findings suggest that the modern image of ancient Greek sculpture as plain white marble _____

Which choice most logically completes the text?

- A) was shared by the ancient Greeks themselves.
- B) is based only on statues that were never painted.
- C) does not reflect how the statues looked when they were first made.
- D) was created by researchers using ultraviolet light.

12

Month	Material recycled (kilograms)
January	210
February	245
March	330
April	410

In January, students at Westfield High School launched a campaign encouraging classmates to recycle. A student reporting on the campaign for the school newspaper claims that the amount of material recycled at the school increased every month from January through April.

Which choice most effectively uses data from the table to support the student's claim?

- A) The school recycled more material in April, 410 kilograms, than in any other month shown.
- B) The amount of material recycled rose from 210 kilograms in January to 245 in February, 330 in March, and 410 in April.
- C) The school recycled less material in February, 245 kilograms, than in March, 330 kilograms.
- D) The school recycled 210 kilograms of material in January.

- 13** Glass frogs of Central and South America have translucent skin on their bellies, so their hearts and other organs are visible from below. When a glass frog rests on a leaf, light passes through its body, and its outline becomes hard to see against the green leaf behind it. Biologists therefore think that this translucency -----

Which choice most logically completes the text?

- A) allows the frogs to digest food more quickly.
 - B) makes the frogs easier for potential mates to find.
 - C) causes the frogs to lose body heat rapidly.
 - D) helps the frogs avoid being spotted by predators.
-

- 14** The following text is from a 1903 novel by Mary Ellen Dacre. Jonah, a carpenter, has been asked to examine the town's old meeting hall.

The other carpenters had looked at the hall and recommended tearing it down. Jonah walked through it slowly, pressing his palm against the beams, tapping the floorboards with his heel, kneeling to sniff the wood near the foundation. When he stood, he told the town council that the hall was sound at its heart. The rot, he said, was all at the edges, and edges could be mended.

Which choice best states the main idea of the text?

- A) After a careful inspection, Jonah concludes that the hall is worth saving, despite the other carpenters' advice.
 - B) Jonah agrees with the other carpenters that the hall should be torn down.
 - C) Jonah is unable to determine what condition the hall is in.
 - D) Jonah wants to use the hall's old wood to build a new hall.
-

- 15** Octopuses can change the color and texture of their skin in a fraction of a second, a skill that helps them hide from predators. Biologists were long puzzled by this ability, because octopus eyes contain only one type of light-detecting cell and so cannot distinguish colors the way human eyes do. Research by marine biologist Hana Lindqvist offers a partial answer: proteins that detect light are also present in octopus skin. Lindqvist proposes that the skin itself may sense light and help guide color changes.

Based on the text, what puzzle does Lindqvist's research help address?

- A) How octopuses match their surroundings even though their eyes cannot distinguish colors
 - B) Why octopuses change color more slowly than other animals do
 - C) Why predators are unable to see octopuses at night
 - D) How octopuses first developed the ability to change skin texture
-

- 16** Sloths move so slowly that algae grow in their _____ the greenish tint helps camouflage the animals among the leaves of the rainforest canopy, where they spend nearly their entire lives.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) fur,
- B) fur
- C) fur;
- D) fur, and,

-
- 17** The Arctic tern has the longest known migration of any animal. Every year, it _____ from its breeding grounds in the Arctic to the waters around Antarctica and back again, a round trip that can exceed 70,000 kilometers.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) migrated
- B) had migrated
- C) will have migrated
- D) migrates

-
- 18** Ancient Egyptians wrote many of their records on papyrus, a paper-like material that they _____ from the stems of a reed that grew along the Nile River.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) make
- B) will make
- C) are making
- D) made

-
- 19** Saturn's rings are made mostly of water ice, with small amounts of rocky dust mixed in. Particles in Saturn's _____ range in size from tiny grains to chunks as large as houses.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) rings:
- B) rings,
- C) rings
- D) rings;

- 20** Made up of more than 2,000 islands scattered across the western _____ Micronesia is home to dozens of distinct languages and cultures. Many of its islands are low-lying coral atolls.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) Pacific;
- B) Pacific,
- C) Pacific
- D) Pacific—

-
- 21** The Nazca Lines—enormous designs etched into the desert floor of southern _____ were created between about 500 BCE and 500 CE. Many of the designs can be fully appreciated only from the air.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) Peru,
- B) Peru;
- C) Peru
- D) Peru—

-
- 22** In 1981, a national competition invited designs for a memorial honoring Americans who served in the Vietnam War. Still an undergraduate at Yale University when she submitted her entry, _____

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) Maya Lin won the competition with her design for a V-shaped wall of polished black granite.
 - B) the competition was won by Maya Lin, who designed a V-shaped wall of polished black granite.
 - C) the design that won the competition, a V-shaped wall of polished black granite, was Maya Lin's.
 - D) Maya Lin's design, a V-shaped wall of polished black granite, won the competition.
-

23

While researching a topic, a student has taken the following notes:

- Hedy Lamarr (1914–2000) was a film actress who starred in Hollywood movies in the 1930s and 1940s.
- During World War II, she worked with composer George Antheil on a radio guidance system for torpedoes.
- Their system used frequency hopping to keep signals from being jammed.
- Principles of frequency hopping were later used in technologies such as Wi-Fi and Bluetooth.

The student wants to emphasize Lamarr's contribution to technology. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) Hedy Lamarr was a film actress who starred in Hollywood movies in the 1930s and 1940s.
 - B) During World War II, Hedy Lamarr worked with composer George Antheil.
 - C) Hedy Lamarr lived from 1914 to 2000.
 - D) Hedy Lamarr co-developed a frequency-hopping system whose principles were later used in Wi-Fi and Bluetooth.
-

24

Most spiders spin elaborate webs to trap their prey. The bolas spider, _____, catches moths by swinging a single sticky line that gives off chemicals resembling the scent of a female moth.

Which choice completes the text with the most logical transition?

- A) for example
 - B) similarly
 - C) however
 - D) therefore
-

25

Honeybees are important pollinators of many crops, including almonds, apples, and blueberries. _____ they produce honey and beeswax, which people have collected for thousands of years.

Which choice completes the text with the most logical transition?

- A) Instead,
 - B) Thus,
 - C) In addition,
 - D) For instance,
-

- 26** Many people assume that chameleons change color mainly to blend in with their surroundings. Research has shown, however, that camouflage is rarely the main reason. _____ chameleons change color mostly to regulate their body temperature and to communicate with other chameleons, such as when signaling aggression toward a rival.

Which choice completes the text with the most logical transition?

- A) Similarly,
- B) Instead,
- C) For example,
- D) Additionally,

-
- 27** While researching a topic, a student has taken the following notes:

- The Svalbard Global Seed Vault opened in 2008 on a Norwegian island in the Arctic.
- It is built deep inside a mountain, where permafrost helps keep the seeds cold.
- It stores duplicate seed samples from gene banks around the world.
- It is meant to protect crop diversity in case of natural disasters, war, or other losses.
- It can hold up to 4.5 million seed samples.

The student wants to emphasize the purpose of the Svalbard Global Seed Vault. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) The Svalbard Global Seed Vault, which opened in 2008, can hold up to 4.5 million seed samples.
- B) Located deep inside an Arctic mountain, the Svalbard Global Seed Vault is kept cold by permafrost.
- C) The Svalbard Global Seed Vault stores backup seed samples to protect the world's crop diversity against disasters, war, and other losses.
- D) The Svalbard Global Seed Vault is located on a Norwegian island in the Arctic.

STOP. If you finish before time is up, check your work on this module only.

Reading and Writing, Module 2 (Harder)

27 questions
32 minutes

Each question has one or more passages. Read each passage and question carefully, then choose the best answer. Every question has a single best answer.

- 1** Many large cities have tried to reduce traffic by building subway systems. In Bogota, Colombia, planners took a different approach in the late 1990s. Rather than building an expensive subway, they created TransMilenio, a network of buses running in dedicated lanes, with stations where passengers pay before boarding. The system cost far less to build than a subway would have, and within a few years it was carrying more than a million passengers a day.

Which choice best describes the function of the second sentence in the overall structure of the text?

- A)** It provides evidence that subways are more efficient than buses.
- B)** It summarizes the results of Bogota's transit system.
- C)** It introduces a city whose approach differs from a common strategy, an approach the rest of the text describes.
- D)** It describes a problem that the text later says remains unsolved.

- 2** Text 1: For much of the twentieth century, scientists believed that the adult human brain could not produce new neurons. Once childhood development ended, the brain was thought to have a fixed supply of neurons that would only decline with age.

Text 2: In the late 1990s, researchers using a chemical marker that labels dividing cells detected newly formed neurons in the hippocampus, a brain region involved in memory, in adult humans. Scientists still debate how much new neuron growth continues into old age, but the finding showed that the adult brain is not entirely fixed.

Based on the texts, how would the researchers in Text 2 most likely respond to the belief described in Text 1?

- A)** They would agree that the adult brain cannot produce new neurons.
- B)** They would claim that new neurons form only during childhood.
- C)** They would suggest that the hippocampus is not involved in memory.
- D)** They would argue that the belief is contradicted by evidence of new neurons forming in adults.

3 Text 1: Many nutrition researchers have recommended that adults eat breakfast every morning, citing studies in which breakfast eaters weighed less on average than people who skipped the meal. These researchers argue that breakfast helps regulate appetite throughout the day.

Text 2: Studies linking breakfast to lower body weight have mostly been observational. They compared people who already chose to eat breakfast with people who did not. In controlled trials, where participants were randomly assigned to eat or skip breakfast, researchers have found little difference in weight change between the groups. Breakfast eaters may simply differ from skippers in other habits, such as exercise.

Based on the texts, how would the author of Text 2 most likely respond to the recommendation discussed in Text 1?

- A) By arguing that the recommendation relies on evidence that may not show that breakfast itself causes lower weight
 - B) By agreeing that the recommendation is strongly supported by controlled trials
 - C) By claiming that skipping breakfast causes people to gain weight
 - D) By suggesting that the researchers in Text 1 measured body weight inaccurately
-

4 Some literary critics have argued that the novel is in decline because fewer people read long fiction than in the past. Scholar Tomas Reyes finds this argument historically shortsighted. He notes that in the 1850s, critics lamented that cheap serialized novels were corrupting readers who had once preferred poetry and sermons, and that in the 1950s, critics warned that television would make the novel obsolete. Each generation, Reyes observes, has declared the novel to be dying, often in the very decades when new readers were discovering it.

Which choice best states the main purpose of the text?

- A) To argue that television has had little effect on people's reading habits
 - B) To present a scholar's view that current claims about the novel's decline repeat a long pattern of similar predictions that proved unreliable
 - C) To show that serialized novels of the 1850s were of higher quality than critics believed
 - D) To explain why fewer people read long fiction today than in the past
-

- 5** Physicists have long described light as behaving both like a wave and like a particle, and this "wave-particle duality" is often presented to students as a strange paradox. Physicist Anneliese Kroll argues that the paradox arises largely from language. The words "wave" and "particle," she points out, come from everyday objects, ripples on a pond and grains of sand, and light is neither. The puzzle, in Kroll's view, says more about the limits of our metaphors than about light itself.

Which choice best states the main purpose of the text?

- A)** To present a physicist's argument that a well-known puzzle about light stems partly from the terms used to describe it
- B)** To argue that physicists have misread the experimental evidence about how light behaves
- C)** To explain the experiments that first revealed that light behaves like both a wave and a particle
- D)** To suggest that students should no longer be taught about the behavior of light

-
- 6** Text 1: Conservation biologist Arjun Mehta argues that efforts to save endangered species should prioritize keystone species, those whose effects on their ecosystems are far larger than their numbers would suggest. Protecting a keystone species such as the sea otter, he notes, indirectly protects many other species that depend on the habitat it maintains.

Text 2: Identifying keystone species is harder than it sounds. A species' influence often depends on local conditions; the same predator may reshape one ecosystem and have little effect on another a few hundred kilometers away. Ecologist Ingrid Nygaard argues that conservation plans built around keystone species should rest on studies of each particular ecosystem rather than on a species' reputation elsewhere.

Based on the texts, how would Nygaard most likely respond to Mehta's argument?

- A)** She would reject the idea that any species can have effects out of proportion to its numbers.
- B)** She would caution that a species' keystone role in one ecosystem does not guarantee the same role in another, so prioritizing it requires local evidence.
- C)** She would argue that sea otters should not be protected because their influence varies from place to place.
- D)** She would agree that a species' keystone status can be determined reliably from its effects in any single ecosystem.

- 7** In her review of the documentary, critic Lauren Mosby gave the film qualified praise. She admired its striking photography and its interviews with former factory workers, but she faulted the director for leaving out the perspectives of the company's managers, an omission that she felt made the film's argument less convincing.

As used in the text, what does the word "qualified" most nearly mean?

- A) limited
- B) certified
- C) competent
- D) eligible

- 8** The following text is from a 1920 novel by Celia Brandt.

Linwood was a town that took pride in its order. Its lawns were trimmed every Saturday, its church bells rang precisely on the hour, and its newspaper had never printed a story that might embarrass a respectable family. It was, everyone agreed, a very good place to live, provided one had no wish to be anything other than what Linwood expected.

Which choice best describes the function of the final sentence in the text as a whole?

- A) It offers further evidence that the residents of Linwood are content with their town.
- B) It explains how the town's newspaper decided which stories to print.
- C) It qualifies the praise of the town by suggesting that Linwood's order limits individual freedom.
- D) It shifts the focus from the town to the narrator's own childhood.

9

Site	Species before restoration	Species after restoration
North Marsh	22	41
Cedar Pond	30	35
Elm Flats	18	39
Reed Bay	27	29

Ornithologists counted the bird species observed at four wetland sites before and after a project that replanted native vegetation. They noted that restoration was associated with more species at every site, though the size of the increase varied widely. For instance, _____

Which choice most effectively uses data from the table to complete the example?

- A) Cedar Pond had more species than North Marsh before restoration.
- B) North Marsh had 41 species after restoration.
- C) Elm Flats gained 21 species after restoration, while Reed Bay gained only 2.
- D) Reed Bay gained more species after restoration than Elm Flats did.

10

Age group	Read a print book in the past year (%)	Listened to an audiobook in the past year (%)
18-29	72	31
30-49	68	24
50-64	61	18
65 and older	58	11

A researcher analyzing a national survey of adults' reading habits claims that although print books were more popular than audiobooks in every age group, the difference between the two formats was smallest among adults aged 18-29.

Which choice most effectively uses data from the table to support the researcher's claim?

- A) Adults aged 18-29 were more likely than any other age group to have read a print book.
- B) Adults aged 65 and older were the least likely to have listened to an audiobook, at 11%.
- C) Among adults aged 18-29, 72% read a print book and 31% listened to an audiobook, a gap of 41 percentage points, which is smaller than the gap for any other age group.
- D) Among adults aged 30-49, 68% read a print book and 24% listened to an audiobook.

11

Literary scholars have noticed that novelist Harriet Lane revised her early novel *Northward* three times over two decades. In each revision, she cut passages in which the narrator directly explains the characters' motives, while leaving the characters' dialogue and actions nearly unchanged. Lane's letters from the same period praise writers who "trust the reader." Taken together, this evidence suggests that Lane _____

Which choice most logically completes the text?

- A) lost interest in her characters' motives as she grew older.
- B) came to believe that her characters' dialogue was poorly written.
- C) revised the novel mainly to shorten it for a new publisher.
- D) increasingly preferred to let readers infer characters' motives from what the characters say and do.

12

In Josephine Arden's 1910 novel *The Long Field*, the narrator presents Will Barlow as a man who hides his kindness behind a gruff manner. The narrator conveys this when describing Will: _____

Which quotation from *The Long Field* most effectively illustrates the claim?

- A) "He never thanked a hired hand in words, but every one of them found an extra coin in his wages at the end of a hard week, and Will would scowl if anyone mentioned it."
- B) "Will Barlow was the gruffest man in the county, and he wanted everyone to know it."
- C) "Will had been kind once, the old women said, before his wife died."
- D) "The children of the village ran when they saw him coming, and he did nothing to call them back."

13 Historians have long described the eighteenth-century coffeehouses of London as engines of democratic debate, places where a shopkeeper and a lord could argue as equals. Historian Rafael Ordóñez does not dispute that such exchanges happened, but he cautions against treating them as typical. Drawing on the account books of several coffeehouses, he shows that most establishments served narrow clienteles, such as shipping merchants or lawyers, and that strangers were often met with suspicion. The open, mixed debate of popular memory, Ordóñez argues, was the exception that later writers mistook for the rule.

Which choice best states the main idea of the text?

- A)** Ordóñez argues that London coffeehouses were rarely places where debate of any kind occurred.
- B)** Ordóñez contends that the image of coffeehouses as socially mixed forums overstates how common such mixing was.
- C)** Ordóñez shows that shipping merchants and lawyers produced most of the political ideas of eighteenth-century London.
- D)** Ordóñez claims that later writers invented the debates between shopkeepers and lords that they described.

14 Cliff swallows nest in large colonies, and they appear to share information about food. Researchers observed that swallows returning to the colony after an unsuccessful foraging trip often followed neighbors who had returned with food when those neighbors left again. Swallows that had found food on their own previous trip were much less likely to follow others. Following was also most common on days when insects gathered in scattered, short-lived swarms. These observations suggest that cliff swallows _____

Which choice most logically completes the text?

- A)** always follow the most successful forager in the colony.
 - B)** avoid foraging alone because doing so exposes them to predators.
 - C)** rely on neighbors' success mainly when their own foraging has failed and food is hard to find.
 - D)** deliberately lead other swallows to food in exchange for help in the future.
-

- 15** Ecologist Mariam Haddad hypothesizes that urban populations of the white-crowned sparrow sing at a higher minimum pitch than rural populations do because low-pitched notes are drowned out by the low-frequency rumble of traffic. To test this idea, Haddad plans to record songs from sparrows in several cities and in nearby countryside sites.

Which finding, if true, would most directly support Haddad's hypothesis?

- A)** Urban sparrows sing at higher minimum pitches than rural sparrows do, even in city parks where traffic noise is almost absent.
 - B)** Urban sparrows sing more songs per hour than rural sparrows do.
 - C)** Within a single city, sparrows living near busy highways sing at higher minimum pitches than sparrows living in quiet neighborhoods do.
 - D)** Urban and rural sparrows learn their songs from adult birds at the same age.
-

- 16** Marine biologist and writer Rachel Carson, whose 1962 book *Silent Spring* warned of the dangers of widespread pesticide use, _____ widely credited with helping to launch the modern environmental movement.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A)** being
 - B)** having been
 - C)** is
 - D)** to be
-

- 17** German scientist Alfred Wegener proposed his theory of continental drift in 1912. Even before Wegener's proposal, however, other observers _____ that the coastlines of Africa and South America seemed to fit together like pieces of a puzzle.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A)** have noticed
 - B)** will have noticed
 - C)** had noticed
 - D)** notice
-

- 18** For centuries, astronomers in Europe and the Middle East relied on a model of the universe with Earth at its center. Neither the ancient Greek astronomer Ptolemy nor the many scholars who built on his work over the following thousand years _____ to accept that Earth might move around the Sun.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) was willing
 - B) has been willing
 - C) were willing
 - D) is willing
-

- 19** The idea that the Moon's gravitational pull, acting on Earth's oceans over billions of years, has gradually slowed Earth's _____ is supported by fossil corals whose growth rings record more days per year than there are today.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) rotation,
 - B) rotation;
 - C) rotation
 - D) rotation—
-

- 20** In 1959, Lorraine Hansberry's *A Raisin in the Sun* opened on _____ the first play by a Black woman to be produced on Broadway, it ran for 530 performances and won the New York Drama Critics' Circle Award.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) Broadway.
 - B) Broadway,
 - C) Broadway
 - D) Broadway, and
-

- 21** The string quartet's next season will feature an ambitious project. The first violinist, as well as the other three members of the ensemble, _____ to perform all sixteen of Beethoven's string quartets over a series of six concerts.

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) plan
 - B) plans
 - C) are planning
 - D) have planned
-

- 22** Fireflies produce light through a chemical reaction that is remarkably _____ very little of the energy it releases is lost as heat, which is why fireflies are sometimes said to give off "cold light."

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) efficient—
- B) efficient,
- C) efficient
- D) efficient, and,

-
- 23** While researching a topic, a student has taken the following notes:

- The Rosetta Stone is a stone slab inscribed in 196 BCE.
- It was found in 1799 near the town of Rashid (Rosetta), Egypt.
- It bears the same decree written in three scripts: hieroglyphic, Demotic, and ancient Greek.
- Scholars in the early 1800s could read ancient Greek but not hieroglyphs.
- In 1822, Jean-François Champollion announced that he had deciphered hieroglyphs.

The student wants to explain why the Rosetta Stone was useful for deciphering hieroglyphs. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A) The Rosetta Stone, found in 1799 near Rashid, Egypt, was inscribed in 196 BCE.
 - B) In 1822, Jean-François Champollion announced that he had deciphered Egyptian hieroglyphs.
 - C) Because the Rosetta Stone presents the same decree in hieroglyphs and in ancient Greek, which scholars could already read, it gave them a key to deciphering hieroglyphs.
 - D) The Rosetta Stone bears a decree written in three scripts: hieroglyphic, Demotic, and ancient Greek.
-

24

While researching a topic, a student has taken the following notes:

- Scientists have proposed several explanations for how Earth's Moon formed.
- The giant-impact hypothesis proposes that the Moon formed from debris thrown off when a Mars-sized body collided with the early Earth.
- The capture hypothesis proposes that the Moon formed elsewhere in the solar system and was later pulled into orbit by Earth's gravity.
- Moon rocks collected during the Apollo missions have oxygen isotope ratios nearly identical to those of Earth rocks.
- Most scientists today favor the giant-impact hypothesis.

The student wants to contrast the two hypotheses' explanations of where the Moon came from.

Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A)** According to the giant-impact hypothesis, the Moon formed from debris after a collision with the early Earth, while the capture hypothesis holds that it formed elsewhere and was later pulled into Earth's orbit.
- B)** Most scientists today favor the giant-impact hypothesis over the capture hypothesis.
- C)** Moon rocks from the Apollo missions have oxygen isotope ratios nearly identical to those of Earth rocks.
- D)** Both the giant-impact hypothesis and the capture hypothesis attempt to explain how Earth's Moon formed.

25

While researching a topic, a student has taken the following notes:

- Biomimicry is the practice of designing technologies modeled on structures and processes found in nature.
- In 1941, Swiss engineer George de Mestral noticed burrs clinging to his dog's fur.
- He studied the burrs' tiny hooks and later invented Velcro.
- Japanese engineer Eiji Nakatsu redesigned the nose of the Shinkansen bullet train to resemble a kingfisher's beak.
- The new design made the train quieter and reduced its energy use.

The student wants to make a generalization about biomimicry. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A)** In biomimicry, engineers design technologies by imitating structures and processes found in nature.
- B)** George de Mestral invented Velcro after studying the tiny hooks on burrs that clung to his dog's fur.
- C)** Eiji Nakatsu modeled the nose of the Shinkansen bullet train on a kingfisher's beak, making the train quieter and more efficient.
- D)** Velcro and the redesigned Shinkansen bullet train were both inspired by nature.

26

While researching a topic, a student has taken the following notes:

- Violins made by Antonio Stradivari in the 1600s and 1700s can sell for millions of dollars.
- Many musicians believe these old Italian violins sound better than modern instruments.
- In a 2014 study led by acoustician Claudia Fritz, professional soloists played old Italian and new violins while wearing modified goggles that hid each instrument's identity.
- The soloists could not reliably tell which violins were old.
- Most of the soloists preferred a new violin.

The student wants to emphasize the surprising result of the 2014 study. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A)** Violins made by Antonio Stradivari can sell for millions of dollars, and many musicians believe they sound better than modern instruments.
- B)** In a 2014 study, soloists played old Italian and new violins while wearing goggles that hid each instrument's identity.
- C)** Although many musicians believe old Italian violins sound better, most soloists in a 2014 study preferred a new violin and could not reliably tell which instruments were old.
- D)** Acoustician Claudia Fritz led a 2014 study involving professional violin soloists.

27

While researching a topic, a student has taken the following notes:

- Fallingwater is a house in rural Pennsylvania designed by architect Frank Lloyd Wright.
- It was completed in 1939 and built directly over a waterfall.
- The Sydney Opera House is a performing arts center in Australia designed by architect Jørn Utzon.
- It opened in 1973 on Bennelong Point, which is surrounded on three sides by Sydney Harbour.
- Both buildings are now UNESCO World Heritage Sites.

The student wants to emphasize a similarity in the two buildings' settings. Which choice most effectively uses relevant information from the notes to accomplish this goal?

- A)** Fallingwater, designed by Frank Lloyd Wright, was completed in 1939, more than thirty years before the Sydney Opera House opened.
- B)** Both Fallingwater and the Sydney Opera House were designed by famous architects, Frank Lloyd Wright and Jørn Utzon.
- C)** Both Fallingwater and the Sydney Opera House are UNESCO World Heritage Sites.
- D)** Fallingwater and the Sydney Opera House are both closely tied to water: one sits directly over a waterfall, and the other occupies a point surrounded by a harbor on three sides.

STOP. If you finish before time is up, check your work on this module only.

Math, Module 1

22 questions
35 minutes

The Desmos graphing calculator and the reference sheet are allowed on every question. For multiple-choice questions, circle your answer. For student-produced response questions, write your answer in the blank. A positive answer can be up to 5 characters, a negative answer up to 6. Fractions and decimals are both fine.

1 Which of the following points lies on the graph of $2x + 3y = 12$ in the xy -plane?

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

2 $3x + 2y = 16$
 $x - 2y = 0$

What is the value of x in the solution to the system of equations above?

- A) 2
- B) 4
- C) 8
- D) 16

3 A line in the xy -plane passes through the points (0, 3) and (2, 11). What is the slope of the line?

- A) $\frac{1}{4}$
- B) 4
- C) 5.5
- D) 8

4 What is the positive solution to the equation $2x^2 - 18 = 0$?

- A) 3
- B) 6
- C) 9
- D) 81

5 The function f is defined by $f(x) = (x - 3)(x + 5)$. What are the x -intercepts of the graph of $y = f(x)$ in the xy -plane?

- A) $(-3, 0)$ and $(5, 0)$
 - B) $(-3, 0)$ and $(-5, 0)$
 - C) $(3, 0)$ and $(5, 0)$
 - D) $(3, 0)$ and $(-5, 0)$
-

6 A school administrator wants to estimate the average number of hours per week that the school's 2,400 students spend on homework. Which of the following sampling methods is most likely to produce a sample that represents all students at the school?

- A) Randomly selecting 100 students from a list of all students at the school
 - B) Surveying the first 100 students who arrive at the library
 - C) Surveying all 100 students in the honors program
 - D) Asking for 100 volunteers through the school newsletter
-

7 What is the range of the data set 7, 3, 9, 12, 3, 8, 14?

- A) 11
 - B) 8
 - C) 12
 - D) 14
-

8 Points A , B , and C lie on a line, with B between A and C . Point D does not lie on the line. The measure of angle ABD is $(3x)^\circ$, and the measure of angle DBC is $(2x)^\circ$. What is the measure of angle ABD ?

- A) 36°
 - B) 72°
 - C) 108°
 - D) 144°
-

9 What value of x satisfies the equation $\frac{12}{x} = \frac{3}{2}$?

Write your answer: _____

- 10** In the equation $4(x + a) = 4x + 20$, a is a constant. If the equation has infinitely many solutions, what is the value of a ?

A) 4
B) 5
C) 16
D) 20

- 11** Which expression is equivalent to $9x^2 - 30x + 25$?

A) $(3x + 5)^2$
B) $(9x - 5)(x - 5)$
C) $(3x - 5)(3x + 5)$
D) $(3x - 5)^2$

- 12** The length of a rectangle is 3 centimeters greater than its width. The area of the rectangle is 70 square centimeters. What is the width, in centimeters, of the rectangle?

A) 5
B) 7
C) 10
D) 14

13

Age (years)	Number of people
20-29	8
30-39	14
40-49	10
50-59	8

The table shows the distribution of ages of 40 people at a community meeting. Which age interval contains the median age?

A) 20-29
B) 30-39
C) 40-49
D) 50-59

- 14** The function f is defined by $f(x) = ax + 7$, where a is a constant. If $f(3) = 19$, what is the value of $f(-2)$?

Write your answer: _____

- 15** How many integer values of x satisfy the inequality $-3 < 2x + 5 \leq 11$?

Write your answer: _____

- 16** A circle has a radius of 8 centimeters. An arc of the circle has a length of 4π centimeters. What is the measure, in degrees, of the central angle that intercepts this arc?

Write your answer: _____

- 17** The function f is defined by $f(x) = x^2 + 2x - 8$. The function g is defined by $g(x) = f(x + 3)$. What is the sum of the x -coordinates of the x -intercepts of the graph of $y = g(x)$?

- A) -8
- B) -2
- C) 2
- D) 4

18

	Tested positive	Tested negative	Total
Has condition	45	5	50
Does not have condition	95	855	950
Total	140	860	1,000

The table shows the results of a screening test given to 1,000 people, some of whom had a certain condition. If a person who tested positive is selected at random, what is the probability that the person has the condition?

- A) $\frac{9}{10}$
- B) $\frac{9}{200}$
- C) $\frac{9}{28}$
- D) $\frac{7}{50}$

- 19** In triangle PQR , $PQ = PR = 10$ and $QR = 12$. What is the value of $\cos Q$?

- A) $\frac{4}{5}$
- B) $\frac{3}{4}$
- C) $\frac{4}{3}$
- D) $\frac{3}{5}$

- 20** In the xy -plane, the graph of $5x + 3y = 45$ and the two coordinate axes form a triangle. What is the area of this triangle?

Write your answer: _____

21 What value of x satisfies the equation $\frac{2}{3}(6x - 9) + \frac{1}{2}(4x + 10) = 3x + 15$?

Write your answer: _____

22 If $x - \frac{1}{x} = 5$, what is the value of $x^2 + \frac{1}{x^2}$?

Write your answer: _____

STOP. If you finish before time is up, check your work on this module only.

Math, Module 2 (Easier)

22 questions
35 minutes

The Desmos graphing calculator and the reference sheet are allowed on every question. For multiple-choice questions, circle your answer. For student-produced response questions, write your answer in the blank. A positive answer can be up to 5 characters, a negative answer up to 6. Fractions and decimals are both fine.

-
- 1** A store sells notebooks for \$3 each and pens for \$2 each. Ari spent exactly \$40 on n notebooks and p pens. Which equation represents this situation?
- A) $3n + 2p = 40$
 - B) $2n + 3p = 40$
 - C) $5(n + p) = 40$
 - D) $3n + 2p + 40 = 0$
-
- 2** Sam has \$50 to spend on movie tickets. Each ticket costs \$6.25. What is the maximum number of tickets Sam can buy?
- A) 6
 - B) 7
 - C) 8
 - D) 9
-
- 3** If $\frac{x}{5} + 3 = 11$, what is the value of x ?
- A) 8
 - B) 16
 - C) 40
 - D) 70
-
- 4** Which of the following is the solution to the inequality $-2x + 7 \geq 15$?
- A) $x \geq -4$
 - B) $x \leq -4$
 - C) $x \geq 4$
 - D) $x \leq 4$
-

5 Which expression is equivalent to $(x^2 + 3x - 4) - (2x^2 - x + 6)$?

- A) $-x^2 + 4x - 10$
 - B) $3x^2 + 2x + 2$
 - C) $-x^2 + 2x + 2$
 - D) $-x^2 + 4x + 2$
-

6 Which expression is equivalent to $4x^3 \cdot 3x^2$?

- A) $7x^5$
 - B) $12x^6$
 - C) $7x^6$
 - D) $12x^5$
-

7 A colony of bacteria has 500 bacteria at time $t = 0$, and the number of bacteria doubles every hour. Which function gives the number of bacteria, $P(t)$, after t hours?

- A) $P(t) = 500(2)^t$
 - B) $P(t) = 2(500)^t$
 - C) $P(t) = 500 + 2t$
 - D) $P(t) = 500t^2$
-

8 A scatterplot shows the elevation x , in thousands of feet, and the average July temperature y , in degrees Fahrenheit, for 25 towns. The line of best fit is $y = -3.5x + 68$. Which of the following is the best interpretation of 68 in this context?

- A) The predicted average July temperature, in degrees Fahrenheit, for a town at an elevation of 0 feet
 - B) The predicted decrease in average July temperature, in degrees Fahrenheit, for each increase of 1,000 feet in elevation
 - C) The highest average July temperature, in degrees Fahrenheit, among the 25 towns
 - D) The predicted elevation, in thousands of feet, of a town with an average July temperature of 0°F
-

9 In a study, 100 patients with high blood pressure were randomly assigned to take either a new medication or a standard medication. What is the main purpose of randomly assigning the patients to the two groups?

- A) To ensure that the results can be generalized to all people in the world
 - B) To guarantee that the new medication works
 - C) To increase the number of patients in the study
 - D) To make the groups similar, so that differences in results can be attributed to the medication
-

10 A right triangle has legs of length 8 and 15. What is the length of the hypotenuse?

- A) 13
 - B) 17
 - C) 23
 - D) $\sqrt{161}$
-

11 A triangle has a base of 14 inches and a height of 9 inches. What is the area, in square inches, of the triangle?

- A) 63
 - B) 126
 - C) 23
 - D) 31.5
-

12 The linear function h has a slope of 6, and $h(0) = -4$. What is the value of $h(3)$?

Write your answer: _____

13 The expression $(x + 4)(x + 6)$ is equivalent to $x^2 + bx + 24$, where b is a constant. What is the value of b ?

Write your answer: _____

14 The function g is defined by $g(x) = 2^x + 5$. What is the value of $g(3)$?

Write your answer: _____

15 A car travels 270 miles in 4.5 hours. What is the car's average speed, in miles per hour?

Write your answer: _____

16 Which of the following is the solution to the inequality $4 - 3x \leq 2x - 11$?

- A) $x \leq -3$
 - B) $x \geq -3$
 - C) $x \leq 3$
 - D) $x \geq 3$
-

17 Kai invested a total of \$5,000 in two accounts. One account earns 3% simple annual interest and the other earns 5% simple annual interest. After one year, the total interest earned was \$206. How much did Kai invest in the account that earns 5%?

- A) \$2,200
- B) \$2,800
- C) \$4,120
- D) \$3,000

18 Which of the following is a factor of $2x^2 + 7x - 15$?

- A) $x - 5$
- B) $2x + 3$
- C) $x + 5$
- D) $2x + 5$

19 A researcher used a random sample of trees in a forest to estimate the mean height of all trees in the forest. The researcher reported that plausible values for the mean height are from 42 feet to 50 feet. Which of the following gives the sample mean and the margin of error for this estimate?

- A) Sample mean 46 feet, margin of error 4 feet
- B) Sample mean 46 feet, margin of error 8 feet
- C) Sample mean 42 feet, margin of error 8 feet
- D) Sample mean 50 feet, margin of error 4 feet

20 For an acute angle measuring x° , $\sin(x^\circ) = 0.42$. What is the value of $\cos((90 - x)^\circ)$?

- A) 0.58
- B) 0.42
- C) 0.91
- D) 2.38

21 What is the solution to the equation $\frac{3}{4}x - 2 = \frac{1}{2}x + 5$?

Write your answer: _____

22 What is the solution to the equation $\sqrt{2x + 3} = x$?

Write your answer: _____

STOP. If you finish before time is up, check your work on this module only.

Math, Module 2 (Harder)

22 questions
35 minutes

The Desmos graphing calculator and the reference sheet are allowed on every question. For multiple-choice questions, circle your answer. For student-produced response questions, write your answer in the blank. A positive answer can be up to 5 characters, a negative answer up to 6. Fractions and decimals are both fine.

- 1** Dana earns \$15 per hour at her first job and \$20 per hour at her second job. Last month she earned a total of \$600 from the two jobs. If she worked 12 hours at her second job, how many hours did she work at her first job?
- A) 16
B) 24
C) 28
D) 40
-
- 2** Which equation has a graph in the xy -plane with a slope of $-\frac{2}{5}$ and a y -intercept of $(0, 3)$?
- A) $2x + 5y = 15$
B) $2x - 5y = -15$
C) $5x + 2y = 6$
D) $5x + 2y = 15$
-
- 3** $\frac{1}{2}x + \frac{1}{3}y = 7$
 $x - y = 4$
What is the value of x in the solution to the system of equations above?
- A) 6
B) 10
C) 14
D) $\frac{42}{5}$
-
- 4** A random sample of 120 employees at a large company was used to estimate the mean commute time for all employees. The sample mean was 34 minutes, with an associated margin of error of 3 minutes. Which of the following is NOT a plausible value for the mean commute time of all employees at the company?
- A) 31.5 minutes
B) 33 minutes
C) 36.5 minutes
D) 38 minutes

- 5** A straight wheelchair ramp rises 3 feet over a horizontal distance of 12 feet. If θ is the angle the ramp makes with the horizontal ground, which of the following is true?

A) $\sin \theta = \frac{1}{4}$
B) $\cos \theta = \frac{1}{4}$
C) $\tan \theta = 4$
D) $\tan \theta = \frac{1}{4}$

- 6** The function f is defined by $f(x) = x^2 + bx + 12$, where b is a constant. If $f(2) = 0$, what is the other value of x for which $f(x) = 0$?

Write your answer: _____

- 7** The function f is defined by $f(x) = x^2 - 6x + 13$. What is the minimum value of $f(x)$?

Write your answer: _____

- 8** $kx + 2y = 7$
 $8x + ky = 14$

In the system of equations above, k is a constant. For which of the following values of k does the system have no solution?

A) -4
B) -2
C) 2
D) 4

- 9** The expression $4x^2 - 24x + 41$ is equivalent to $a(x - h)^2 + k$, where a , h , and k are constants. What is the value of k ?

A) -36
B) 5
C) 32
D) 41

- 10** The function $m(t) = 80 \left(\frac{1}{2}\right)^{\frac{t}{6}}$ gives the mass, in grams, of a radioactive sample t days after it was measured. Which function gives the mass, in grams, of the sample w weeks after it was measured?

A) $80 \left(\frac{1}{2}\right)^{\frac{6w}{7}}$
B) $80 \left(\frac{1}{2}\right)^{\frac{w}{42}}$
C) $80 \left(\frac{1}{2}\right)^{\frac{7w}{6}}$
D) $80 \left(\frac{1}{2}\right)^{42w}$

- 11** The number of users of an app t months after launch is modeled by $N(t) = 2,400(1.2)^{\frac{t}{3}}$. According to the model, by what percent does the number of users increase every 6 months?

A) 20%
B) 40%
C) 44%
D) 120%

- 12** How many solutions does the equation $\frac{x}{x-3} + 2 = \frac{3}{x-3}$ have?

A) Zero
B) Exactly one
C) Exactly two
D) Infinitely many

- 13** Two polls each surveyed a different random sample of 500 adults from the same population about whether they plan to buy an electric vehicle. Poll 1 found that 34% plan to buy one, with a margin of error of 4.2 percentage points. Poll 2 found 39%, with a margin of error of 4.3 percentage points. Which of the following is a plausible value for the population percentage that is consistent with both polls?

A) 30%
B) 36%
C) 42%
D) 44%

14 A data set of 15 values has a mean of 40 and a standard deviation of 6. A new value of 40 is added to the data set. Which of the following describes the effect on the mean and standard deviation?

- A) The mean stays the same, and the standard deviation increases.
 - B) The mean stays the same, and the standard deviation decreases.
 - C) The mean increases, and the standard deviation stays the same.
 - D) Both the mean and the standard deviation stay the same.
-

15 A circle in the xy -plane has equation $x^2 + y^2 - 2x + 4y - 20 = 0$. Which of the following points lies in the interior of the circle?

- A) (4, 2)
 - B) (5, -6)
 - C) (-3, 1)
 - D) (-2, 1)
-

16 The linear function h satisfies $h(2x - 1) = 6x + 5$ for all values of x . What is the value of $h(7)$?

Write your answer: _____

17 If $-5 \leq 2a - 1 \leq 7$ and $1 \leq b \leq 4$, what is the least possible value of $2a - 3b$?

Write your answer: _____

18 In the xy -plane, line m passes through the point $(-2, 5)$ and is perpendicular to the graph of $3x - 4y = 8$. What is the x -coordinate of the x -intercept of line m ?

Write your answer: _____

19 For the linear function f , $f(x + 3) - f(x) = 12$ for all values of x , and $f(0) = -2$. What is the value of $f(5)$?

Write your answer: _____

20 The expression $(ax + 3)(5x + b)$, where a and b are constants, is equivalent to $10x^2 + kx + 21$, where k is a constant. What is the value of k ?

Write your answer: _____

21 The price of a stock increased by $p\%$ in one month and then decreased by 30% the following month. At the end of the two months, the price was 112% of the original price. What is the value of p ?

Write your answer: _____

22

Two rectangular prisms are similar. The total surface area of the smaller prism is 54 square units, and the total surface area of the larger prism is 150 square units. If the volume of the smaller prism is 27 cubic units, what is the volume, in cubic units, of the larger prism?

Write your answer: _____

STOP. If you finish before time is up, check your work on this module only.

Answer key

For a full explanation of any question, go to the link in the last column. To get your scaled score and weakest areas, enter your answers at satowl.com/score.

Reading and Writing, Module 1

#	Answer	Skill	Full explanation
1	D	Cross-Text Connections	satowl.com/q/ra-0078
2	C	Cross-Text Connections	satowl.com/q/ra-0020
3	A	Cross-Text Connections	satowl.com/q/ra-0138
4	B	Words in Context	satowl.com/q/ra-0153
5	B	Words in Context	satowl.com/q/ra-0033
6	D	Words in Context	satowl.com/q/ra-0111
7	D	Cross-Text Connections	satowl.com/q/ra-0140
8	D	Words in Context	satowl.com/q/ra-0034
9	A	Inferences	satowl.com/q/ra-0008
10	D	Command of Evidence	satowl.com/q/ra-0065
11	D	Command of Evidence	satowl.com/q/ra-0025
12	C	Central Ideas and Details	satowl.com/q/ra-0081
13	A	Inferences	satowl.com/q/ra-0107
14	A	Central Ideas and Details	satowl.com/q/ra-0143
15	C	Central Ideas and Details	satowl.com/q/ra-0103
16	D	Boundaries	satowl.com/q/rb-0114
17	C	Form, Structure, and Sense	satowl.com/q/rb-0117
18	A	Boundaries	satowl.com/q/rb-0095
19	C	Form, Structure, and Sense	satowl.com/q/rb-0150
20	B	Boundaries	satowl.com/q/rb-0086
21	B	Boundaries	satowl.com/q/rb-0077
22	B	Boundaries	satowl.com/q/rb-0100
23	B	Transitions	satowl.com/q/rb-0068
24	B	Transitions	satowl.com/q/rb-0042
25	C	Rhetorical Synthesis	satowl.com/q/rb-0008
26	C	Rhetorical Synthesis	satowl.com/q/rb-0024
27	D	Transitions	satowl.com/q/rb-0063

Reading and Writing, Module 2 (Easier)

#	Answer	Skill	Full explanation
1	A	Words in Context	satowl.com/q/ra-0110
2	C	Words in Context	satowl.com/q/ra-0072
3	B	Words in Context	satowl.com/q/ra-0050
4	B	Cross-Text Connections	satowl.com/q/ra-0117
5	D	Text Structure and Purpose	satowl.com/q/ra-0015

6	C	Cross-Text Connections	satowl.com/q/ra-0118
7	A	Text Structure and Purpose	satowl.com/q/ra-0095
8	B	Cross-Text Connections	satowl.com/q/ra-0057
9	D	Inferences	satowl.com/q/ra-0130
10	C	Inferences	satowl.com/q/ra-0109
11	C	Inferences	satowl.com/q/ra-0148
12	B	Command of Evidence	satowl.com/q/ra-0125
13	D	Inferences	satowl.com/q/ra-0069
14	A	Central Ideas and Details	satowl.com/q/ra-0122
15	A	Central Ideas and Details	satowl.com/q/ra-0022
16	C	Boundaries	satowl.com/q/rb-0094
17	D	Form, Structure, and Sense	satowl.com/q/rb-0131
18	D	Form, Structure, and Sense	satowl.com/q/rb-0160
19	C	Boundaries	satowl.com/q/rb-0072
20	B	Boundaries	satowl.com/q/rb-0112
21	D	Boundaries	satowl.com/q/rb-0074
22	A	Form, Structure, and Sense	satowl.com/q/rb-0120
23	D	Rhetorical Synthesis	satowl.com/q/rb-0011
24	C	Transitions	satowl.com/q/rb-0036
25	C	Transitions	satowl.com/q/rb-0060
26	B	Transitions	satowl.com/q/rb-0045
27	C	Rhetorical Synthesis	satowl.com/q/rb-0028

Reading and Writing, Module 2 (Harder)

#	Answer	Skill	Full explanation
1	C	Text Structure and Purpose	satowl.com/q/ra-0114
2	D	Cross-Text Connections	satowl.com/q/ra-0060
3	A	Cross-Text Connections	satowl.com/q/ra-0018
4	B	Text Structure and Purpose	satowl.com/q/ra-0137
5	A	Text Structure and Purpose	satowl.com/q/ra-0116
6	B	Cross-Text Connections	satowl.com/q/ra-0099
7	A	Words in Context	satowl.com/q/ra-0074
8	C	Text Structure and Purpose	satowl.com/q/ra-0056
9	C	Command of Evidence	satowl.com/q/ra-0044
10	C	Command of Evidence	satowl.com/q/ra-0144
11	D	Inferences	satowl.com/q/ra-0129
12	A	Command of Evidence	satowl.com/q/ra-0127
13	B	Central Ideas and Details	satowl.com/q/ra-0003
14	C	Inferences	satowl.com/q/ra-0089
15	C	Command of Evidence	satowl.com/q/ra-0007
16	C	Form, Structure, and Sense	satowl.com/q/rb-0133

17	C	Form, Structure, and Sense	satowl.com/q/rb-0143
18	C	Form, Structure, and Sense	satowl.com/q/rb-0121
19	C	Boundaries	satowl.com/q/rb-0081
20	A	Boundaries	satowl.com/q/rb-0093
21	B	Form, Structure, and Sense	satowl.com/q/rb-0159
22	A	Boundaries	satowl.com/q/rb-0104
23	C	Rhetorical Synthesis	satowl.com/q/rb-0012
24	A	Rhetorical Synthesis	satowl.com/q/rb-0025
25	A	Rhetorical Synthesis	satowl.com/q/rb-0009
26	C	Rhetorical Synthesis	satowl.com/q/rb-0020
27	D	Rhetorical Synthesis	satowl.com/q/rb-0014

Math, Module 1

#	Answer	Skill	Full explanation
1	D	Linear equations in two variables	satowl.com/q/ma-0041
2	B	Systems of two linear equations in two variables	satowl.com/q/ma-0066
3	B	Linear functions	satowl.com/q/ma-0024
4	A	Nonlinear equations in one variable and systems of equations in two variables	satowl.com/q/ma-0124
5	D	Nonlinear functions	satowl.com/q/ma-0104
6	A	Inference from sample statistics and margin of error	satowl.com/q/mb-0089
7	A	One-variable data: distributions and measures of center and spread	satowl.com/q/mb-0025
8	C	Lines, angles, and triangles	satowl.com/q/mb-0095
9	B	Nonlinear equations in one variable and systems of equations in two variables	satowl.com/q/ma-0126
10	B	Linear equations in one variable	satowl.com/q/ma-0014
11	D	Equivalent expressions	satowl.com/q/ma-0152
12	B	Nonlinear equations in one variable and systems of equations in two variables	satowl.com/q/ma-0134
13	B	One-variable data: distributions and measures of center and spread	satowl.com/q/mb-0144
14	-1	Linear functions	satowl.com/q/ma-0032
15	7	Linear inequalities in one or two variables	satowl.com/q/ma-0090
16	90	Circles	satowl.com/q/mb-0099
17	A	Nonlinear functions	satowl.com/q/ma-0118
18	C	Probability and conditional probability	satowl.com/q/mb-0128
19	D	Right triangles and trigonometry	satowl.com/q/mb-0157
20	135/2 or 67.5	Linear equations in two variables	satowl.com/q/ma-0059
21	16/3 or 5.333	Linear equations in one variable	satowl.com/q/ma-0020
22	27	Equivalent expressions	satowl.com/q/ma-0159

Math, Module 2 (Easier)

#	Answer	Skill	Full explanation
1	A	Linear equations in two variables	satowl.com/q/ma-0042
2	C	Linear inequalities in one or two variables	satowl.com/q/ma-0086

3	C	Linear equations in one variable	satowl.com/q/ma-0004
4	B	Linear inequalities in one or two variables	satowl.com/q/ma-0084
5	A	Equivalent expressions	satowl.com/q/ma-0142
6	D	Equivalent expressions	satowl.com/q/ma-0144
7	A	Nonlinear functions	satowl.com/q/ma-0102
8	A	Two-variable data: models and scatterplots	satowl.com/q/mb-0085
9	D	Evaluating statistical claims: observational studies and experiments	satowl.com/q/mb-0112
10	B	Right triangles and trigonometry	satowl.com/q/mb-0037
11	A	Area and volume	satowl.com/q/mb-0059
12	14	Linear functions	satowl.com/q/ma-0026
13	10	Equivalent expressions	satowl.com/q/ma-0145
14	13	Nonlinear functions	satowl.com/q/ma-0103
15	60	Ratios, rates, proportional relationships, and units	satowl.com/q/mb-0049
16	D	Linear inequalities in one or two variables	satowl.com/q/ma-0089
17	B	Systems of two linear equations in two variables	satowl.com/q/ma-0074
18	C	Equivalent expressions	satowl.com/q/ma-0149
19	A	Inference from sample statistics and margin of error	satowl.com/q/mb-0111
20	B	Right triangles and trigonometry	satowl.com/q/mb-0156
21	28	Linear equations in one variable	satowl.com/q/ma-0013
22	3	Nonlinear equations in one variable and systems of equations in two variables	satowl.com/q/ma-0129

Math, Module 2 (Harder)

#	Answer	Skill	Full explanation
1	B	Linear equations in two variables	satowl.com/q/ma-0048
2	A	Linear equations in two variables	satowl.com/q/ma-0047
3	B	Systems of two linear equations in two variables	satowl.com/q/ma-0073
4	D	Inference from sample statistics and margin of error	satowl.com/q/mb-0090
5	D	Right triangles and trigonometry	satowl.com/q/mb-0097
6	6	Nonlinear functions	satowl.com/q/ma-0108
7	4	Nonlinear functions	satowl.com/q/ma-0112
8	A	Systems of two linear equations in two variables	satowl.com/q/ma-0079
9	B	Equivalent expressions	satowl.com/q/ma-0158
10	C	Nonlinear functions	satowl.com/q/ma-0116
11	C	Nonlinear functions	satowl.com/q/ma-0119
12	A	Nonlinear equations in one variable and systems of equations in two variables	satowl.com/q/ma-0138
13	B	Inference from sample statistics and margin of error	satowl.com/q/mb-0042
14	B	One-variable data: distributions and measures of center and spread	satowl.com/q/mb-0105
15	D	Circles	satowl.com/q/mb-0120
16	29	Linear functions	satowl.com/q/ma-0039
17	-16	Linear inequalities in one or two variables	satowl.com/q/ma-0098
18	7/4 or 1.75	Linear equations in two variables	satowl.com/q/ma-0055

19	18	Linear functions	satowl.com/q/ma-0035
20	29	Equivalent expressions	satowl.com/q/ma-0155
21	60	Percentages	satowl.com/q/mb-0013
22	125	Area and volume	satowl.com/q/mb-0034