



These answers will vary. Examples given.

Page 39

Name _____

Literature Tells About History

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. What inference can you make about Mark Twain as an author?
 - A He is against slavery.
 - B He wishes he were a boy again.
 - C He felt it was important to write about criminals.
 - D He felt it was important to write about life in the South during slavery.
2. *The Adventures of Tom Sawyer* reflects reality by focusing on _____.
 - A an American family's ideal life
 - B hardship and moral struggles
 - C the life of emancipated people
 - D the Reconstruction period
3. In your own words, explain what realism is in literature.

* It is when authors want to write a story that reflects the real world as it is, including bad things.

4. How does the text support the idea that the Civil War caused new issues in the country?

* The text mentions examples such as freed people needing jobs and the South's devastated economy.

5. Would you recommend a fictional book from the 1870s to someone who wants to learn more about American history? Explain why or why not.

* Yes, because even a fictional story may tell about how life was back then because realism was popular.

Write About the Topic

Use the Writing Form to write about what you read.



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Art Reflects History ■■■ 39

Page 47

Name _____

Technology and Jobs

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. The term "labor force" in the text probably means _____.
 - A people who can work
 - B people who are strong
 - C people who can learn
 - D people who like technology
2. The fact that the number of brick-and-mortar stores is decreasing shows that _____.
 - A people are more interested in going to the store than shopping online
 - B technology products have been in low demand recently
 - C society's demands are changing, so supplies need to change, too
 - D society's demands are staying the same, but supplies need to change
3. Explain how you could support the view that supply and demand is an endless cycle.

* People do jobs, make money, and spend. Their money boosts others' jobs. People continuously work and spend.

4. How does the text support the idea that there is a high demand for tech products?

* It states that stores have shut down because of tech use, and society is always on the lookout for more technology.

5. Why have some jobs and services been less affected by technology?

* Some jobs need a person to perform a task that does not depend on technology.

Write About the Topic

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Ways to Earn a Living ■■■ 47

Page 45

Name _____

The Basics of Earning a Living

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Why would a job be "geographically limited" to a specific area?
 - A The job requires a specific geographical landscape or region.
 - B The person doing the job needs to have specific skills.
 - C The good or service provided requires only U.S. dollars.
 - D The job is in demand everywhere.
2. The word "robust" probably means "_____."
 - A weak
 - B strong
 - C special
 - D complicated
3. Explain two aspects of a healthy economy.

* A healthy economy has a demand for goods and services and an ability to supply those goods and services.

4. List some jobs you know of that are not in the chart and are limited geographically.

* A ship captain, a forest ranger, a surfing instructor

5. How do goods and services boost the economy?

* Goods and services depend on jobs. People do jobs, make money, and spend on goods and services.

Write About the Topic

Use the Writing Form to write about what you read.



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Ways to Earn a Living ■■■ 45

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Name _____

Creating New Jobs

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. From the chart, you can make the inference that _____.
 - A switchboard operators are now doing their jobs for mobile calls
 - B long-distance calls are no longer being made on landline phones
 - C switchboards aren't necessary to make long-distance calls now
 - D the U.S. no longer has a need for phones of any kind

2. How can we estimate what the world population will be in 2050?
 - A We know what the current world population is.
 - B There is data from 2050 that informs us of the population.
 - C We can assume that the population will not grow very much.
 - D We can estimate based on the growth rate from recent decades.

3. Explain why jobs change when demand changes.

* Jobs are based on what people need or want. When demand changes, a job is created to meet the demand.

4. How does population growth affect the kinds of jobs that are needed?

* Population growth affects jobs because a greater number of people using something creates a greater demand for it.

5. Based on the chart, what's so different about the types of jobs in 1950 and 2017?

* Jobs in 1950 involved more manual work, like delivering milk or setting up pins. Jobs in 2017 use technology.

Write About the Topic

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Ways to Earn a Living ■■■ 49



These answers will vary. Examples given.

Page 55

Name _____

The Water Cycle

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. One of the main ideas in the text is that _____.
 - A precipitation can be rain, snow, hail, or sleet
 - B we drink the same water today that dinosaurs drank
 - C condensation follows the evaporation stage
 - D all stages of the water cycle are equally important
2. How is evaporation similar to condensation?
 - A In both stages water changes its form.
 - B Both stages involve rain and clouds.
 - C They are more important than precipitation.
 - D In both stages, the ocean plays an important role.

3. Why is the precipitation stage needed for the water cycle to work?

* The other stages could not happen without precipitation.
There would be no water to evaporate.

4. Explain how the diagram helped you understand the water cycle.

* The diagram gives an idea of what the water cycle
looks like in action in nature.

5. What do you think would happen if the water cycle stopped working?

* Earth would slowly run out of water; plants would
start drying up; we wouldn't have water to drink.

Write About the Topic

Use the Writing Form to write about what you read.



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Earth's Water ■ ■ ■ 55

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Name _____

Conserving Fresh Water

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. According to the pie chart, _____.
 - A leaks cause the heaviest use of water in typical homes
 - B very few American homes use water for flushing the toilet
 - C we know how more than 90% of water is used every day
 - D we get most of our household water from precipitation
2. How can the information in the pie chart help us to conserve water?
 - A The chart can make people aware of how much water they use or overuse.
 - B We can see that clothes washers should be banned.
 - C The chart shows specific houses that overuse water.
 - D We can use the information to increase the supply of fresh water.

3. What steps would you recommend to people who want to conserve water?

* Turn off the faucet as much as possible, be mindful
of water use, and fix leaks.

4. Explain how the author uses each paragraph to support each bold-text main idea.

* The author uses facts and gives reasons for why the
bold main idea is true. The author includes a percentage.

5. Why can't we rely on the water cycle alone to have enough fresh water?

* The human population is increasing, limiting our water
supply even more. There are other threats to water, too.

Write About the Topic

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Earth's Water ■ ■ ■ 59

Page 57

Name _____

Earth's Limited Fresh Water

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Why is it important that more than 96% of Earth's water is salt water?
 - A This fact shows how many marine animals depend on salt water.
 - B It shows that humans, animals, and plants are able to use most of Earth's water for survival.
 - C We do not have to be concerned at all about water pollution in salt water.
 - D It means that we can't use most of Earth's water for survival.
2. What inference can be made about polluted water?
 - A It smells bad but is probably safe to drink.
 - B Drinking it could harm people and animals.
 - C The water cycle is a solution for polluted water.
 - D It is found only in wells and springs.

3. Would it be better if fresh water did not evaporate? Explain why or why not.

* It wouldn't be better, because the stages of the water
cycle refresh water and keep it usable and clean.

4. Write a main idea from the text and a detail that supports it.

* Main idea: Earth's fresh water is limited. Detail: Most of
it is in glaciers and polar ice caps, where we can't get it.

5. Explain what water overuse is and why it's a problem.

* It is when people waste water or use it for purposes that
aren't necessary. It limits our freshwater supply.

Write About the Topic

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Earth's Water ■ ■ ■ 57

Page 59

Name _____

The Basics of Matter

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Earth has the same amount of water as it did billions of years ago because _____.
 - A water only moves within the ocean
 - B water does not have a mass, so it's not as heavy
 - C even invisible things such as air are made of matter
 - D of the law of conservation of mass

2. _____ is an example of a chemical reaction.

- A Water changing into ice
- B An egg becoming hard-boiled
- C A frying pan heating up
- D Folding a dollar bill

3. If the person had eaten the orange peel, too, would the mass in the room have changed? Explain why or why not.

No. The orange's atoms still would have been in the room,
just rearranged.

4. Does the state of matter in an object affect the mass? Explain why or why not.

No. The state of matter does not affect the amount of
matter. Even if the state changes, the amount is the same.

5. When substances combine or break apart, what is happening to the matter?

* The matter is being rearranged, which means it is
moving and changing.

Write About the Topic

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Matter and Mass ■ ■ ■ 65



These answers will vary. Examples given.

Page 67

Name _____

Law of Conservation of Mass

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. When a living thing digests food, the _____.
 - A chemical reaction does not occur
 - B food's matter is rearranged
 - C living thing's matter is rearranged
 - D law of conservation of mass doesn't apply

2. When a landform or a living thing gets smaller, it's because _____.
 - A new matter formed in another place
 - B Earth's mass decreased
 - C matter was used up and disappeared
 - D matter was transferred from it to another place

3. What do microorganisms have in common with erosion?

- * They are both important in Earth's natural cycles.
They break down matter so that it can be rearranged.
4. Explain how the law of conservation of mass allows Earth's cycles to continue.
- * The law ensures that Earth will never run out of matter, so water, organic matter, and rock will always rearrange.
5. How are humans and their belongings subject to the law of conservation of mass?
- * Humans grow, gain and lose weight, and use energy.
The properties of our matter, like the color of our house, can change.

Write About the Topic

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Matter and Mass ■ ■ ■ 67

Page 75

Name _____

Ecosystem Relationships

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. In the second photo within the text, the _____.
 - A tree is benefited by the fungus's living cells
 - B fungus is surviving off of the tree's living cells
 - C fungus is growing on the tree, but the tree is unharmed
 - D tree and the fungus are sharing a mutualistic relationship

2. When birds follow cattle to find bugs to eat, the disturbed bugs are _____.
 - A benefited
 - B parasitic
 - C predators
 - D prey

3. What would happen if the tree in a tree-fungi parasitic relationship suddenly died? Explain why this would happen.

- * The fungi would die because they depend on the tree's living cells to survive.

4. In your opinion, which is the worst kind of relationship for an organism? Explain why.
- * If you are the prey, a predation relationship is the worst.

5. Would it be possible for an organism not to be part of an ecosystem relationship? Why or why not?

- * No, all organisms must eat (whether plants or animals). All organisms must compete for resources.

Write About the Topic

Use the Writing Form to write about what you read.



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Relationships In Nature ■ ■ ■ 75

Page 69

Name _____

Matter in Natural Cycles

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. An organism growing bigger is evidence that _____.
 - A energy that didn't exist on Earth before has transferred to the organism
 - B the organism has created matter that didn't exist before
 - C matter has transferred to the organism from another place
 - D the organism has not gained or lost any mass

2. According to the text, _____.
 - A the matter in sedimentary rock eventually transfers to another place
 - B igneous rock cannot break down as other rocks can
 - C weathering and erosion is the only way rock matter changes
 - D sedimentary rock is not composed of matter

3. Explain how the law of conservation of mass makes it possible for the grasshopper to help the frog survive.

- * The matter in the grasshopper's body will break down inside the frog, and its energy will transfer to the frog.

4. What would happen if food matter simply disappeared after organisms ate? Explain how Earth would be different.

- * Life on Earth would not have existed this long, because matter would not get passed along. It could run out.

5. Why is the law of conservation of mass essential for all of the natural cycles to work?

- * The reason these processes are cycles is because they are ongoing due to the law. All of the cycles need matter.

Write About the Topic

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Matter and Mass ■ ■ ■ 69

Page 77

Name _____

Making Ecosystem Connections

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Which sentence describes a mutualistic relationship?
 - A Bees use flowers for pollen to make nectar, and flowers use bees to reproduce.
 - B Vultures and hyenas compete for carrion as a food source in the savanna.
 - C Mosquitos land on animals and feed on their blood for nutrients.
 - D Rattle, an herb, attaches to grass roots and takes nutrients away from the grass.

2. Which of the following animals can be prey, according to the text?

- A jackal
- B eagle
- C meerkat
- D vulture

3. What would happen if two species were in competition, and one was more successful?
* The successful species would thrive, and its population would grow. The other species would decrease or die off.

4. Is ecosystem balance important? How could eagles affect the mouse population?

- * Balance is important. If eagles ate too many meerkats, the mouse population would increase.

5. Explain what it means for a species to be "benefitted" or "harmed" in an ecosystem.

- * A benefit helps a species' population grow and survive. A species is harmed when it is hurt, killed, or made weak.

Write About the Topic

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Relationships In Nature ■ ■ ■ 77



These answers will vary. Examples given.

Page 79

Name _____

Ecosystem Balance

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. According to the diagram, _____.
 - A giraffes have no predators
 - B lions feed on their own species
 - C cheetahs and rhinoceroses compete with each other
 - D giraffes and elephants compete with each other
 2. The last paragraph of the text provides questions that _____.
 - A the author and readers should know the exact answers to
 - B encourage thinking about an organism's role in its ecosystem
 - C are related to a situation that is absolutely impossible
 - D are meant to make the reader think mainly about parasitism
 3. Explain why predation and competition are not considered symbiosis.
- * Predation requires one species to die, not survive. And species that compete probably don't need each other.
4. What would happen if only one species at the top of the food chain were to disappear?
- * Either the population of the species that the predator fed on would grow, or its competitors would grow.
5. According to the diagram, which animals are in competition with each other?
- * The cheetah, panther, and lion compete for prey. The elephant and giraffe compete for plant food.

Write About the Topic

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Relationships in Nature ■ ■ ■

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Page 87

Name _____

Look at the Stars

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. The brightness of a star can indicate _____.
 - A an entire galaxy
 - B a star's age
 - C which telescope is required
 - D a star's name
 2. The sun appears bigger and brighter than other stars partly because it's _____.
 - A farthest from Earth
 - B near our solar system
 - C yellow
 - D closest to Earth
 3. Why do you think it's important for astronomers to study stars?
- * It is important for us to know what our surroundings are. The sun is a star, and it affects life on Earth.
4. What inferences could you make about a small red star in the sky? Explain why.
- * It is far from Earth. It's a cool star, because red stars are cooler. Interstellar matter could be there.
5. Did the photo help you understand the text better? Explain why or why not.
- * Yes, I know what a telescope is, but I couldn't imagine one in orbit. I can see why it gets images others can't.

Write About the Topic

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The Sun and Stars ■ ■ ■

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Page 85

Name _____

What Are Stars?

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. According to the text, stars _____.
 - A range in size and in distance from Earth
 - B are all the same distance from Earth
 - C are all the same size and temperature
 - D can be seen only with a telescope
 2. The diagram shows that electromagnetic radiation _____.
 - A is everywhere we go
 - B is always visible
 - C moves in a straight line
 - D moves in waves
 3. Explain what the sun is composed of.
- * The sun is made of hot gases, mostly hydrogen and helium.
4. What effect does the distance from Earth have on how stars appear to us?
- * Stars that are farther away seem smaller and not as bright. Closer stars seem brighter.
5. Explain which forms of electromagnetic radiation you are familiar with and how.
- * I use sunglasses to protect my eyes from ultraviolet radiation. I know about radio waves.

Write About the Topic

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The Sun and Stars ■ ■ ■

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Page 89

Name _____

Stars and Us

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. A star's appearance can _____.
 - A indicate its age
 - B indicate who discovered it
 - C reveal its name
 - D give clues about the telescope
 2. Hubble depends on _____ to obtain clear deep-space images.
 - A light in Earth's atmosphere
 - B light released from interstellar objects
 - C Proxima Centauri and Barnard's Star
 - D darkness emanating from Earth's surface
 3. Would you rather study a Hubble image than one from another telescope? Why or why not?
- * Hubble's images are clearer. They see deeper in space and show more detail because less light interferes.
4. Explain why stars differ in appearance.
- * Stars change over time. Young stars glow red. Older stars look yellow, white, or blue.
5. If you could invent one tool to study stars, what would it be, and what would it do?
- * I'd invent a super-fast ship that could withstand a star's heat so we could travel light-years to see it up close.

Write About the Topic

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The Sun and Stars ■ ■ ■

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These answers will vary. Examples given.

Page 95

Name _____

Giant Snack, Giant Equation

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Math is used in the area of giant foods to _____.
 - A measure and compare foods
 - B study a chef's skills
 - C use as much food as possible
 - D share food with the world

2. Details about the specific portions in a recipe _____.
 - A reveal when the giant food will expire
 - B aren't helpful for other chefs who want to make giant foods
 - C help us understand why the chef chose to make this food
 - D would be useful for a chef trying to make a giant portion

3. How could the steps of making a giant pizza be applied to making other giant foods?
*** The chefs could still use ratios and math operations to determine how much of each ingredient they need.**

4. Which math operations do you think are most useful when making a giant food?
*** I think multiplication is most useful because it can help you accurately increase your ingredients.**

5. Are weight and measurement an important part of this text? Explain why or why not.
*** Yes, the text uses food weight and measurements to explain how giant something is and why it set a record.**

Write About the Topic

Use the Writing Form to write about what you read.

Describe some of the possible outcomes if there wasn't an equal ratio of ingredients between the giant and normal pizzas.



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Extraordinary Food, Ordinary Math ■ ■ ■ 95

Page 99

Name _____

Math Is a Chef's Friend

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Math is important in the area of giant foods because _____.
 - A people enjoy using a lot of ingredients
 - B the flavors of giant foods can be measured
 - C it is used to measure and compare ratios of ingredients
 - D it helps determine which ingredients are needed

2. Math is helpful in adjusting recipes because _____.
 - A there are so many ingredients in all recipes
 - B most people don't use recipes or measurements
 - C it's not necessary to use accurate ingredients in most recipes
 - D recipes have measurements that can be multiplied

3. Explain why ratios are important when chefs adjust recipes or make giant foods.
*** The ratio of ingredients affects the result. Ratios must be the same for the giant size to taste like the regular size.**

4. Could you apply the information in the text if you were trying to make a smaller version of a food? Explain why or why not.
*** Yes. When you make a food bigger, you multiply the ingredients. When you make it smaller, you divide.**

5. Do you agree with the title "Math Is a Chef's Friend"? Explain your answer.
*** Yes, I agree that chefs rely on math to help them make good food, especially if they work in a busy restaurant.**

Write About the Topic

Use the Writing Form to write about what you read.

Think of a food you can make. Explain the steps and the math operations you would use to make it for one hundred people.



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Extraordinary Food, Ordinary Math ■ ■ ■ 99

Page 97

Name _____

Calculating a Food Win

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. The chefs of giant foods and food challenges probably use math to _____.
 - A taste their food as they are cooking it
 - B adjust recipes to make foods larger or hotter
 - C receive attention for setting a new world record
 - D adjust their uniforms for the difficult task

2. Mark the food-eating competitor's time that is the fastest.
 - A 2.04
 - B 2.07
 - C 2.47
 - D 2.49

3. List anything related to math that a chef would do when making the largest pizza ever.
*** consider the cost and amount of all ingredients, add to figure out the weight, measure the diameter**

4. How could math skills help a competitive eater in a timed competition?
*** Knowing how much you eat in a minute could help. You could multiply and determine if you need to eat faster.**

5. Explain the steps a chef could take to figure out how much it costs to make a giant food.
*** A chef can find out the cost of making the regular recipe and multiply that cost by the portion needed for the giant food.**

Write About the Topic

Use the Writing Form to write about what you read.

Would food competitions and food records be possible without using math? Write an argument explaining why or why not.



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Extraordinary Food, Ordinary Math ■ ■ ■ 97

Page 105

Name _____

Running a Business

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Business owners can use receipts to _____.
 - A calculate total purchases
 - B improve how the cash register functions
 - C provide a service to a customer
 - D create a product to sell

2. Math is useful to business owners because it _____.
 - A is the most important school subject
 - B teaches them how to be patient with customers
 - C helps them make decisions that lead to a bigger profit
 - D helps them attract more customers

3. Explain how a business owner can determine whether or not a profit is being made.
*** An owner can calculate the income to see if it exceeds the expenses. An owner can use receipts and records.**

4. Name a business in your town. Then write a question the owner may have considered.
*** The arcade. Should the games be coin-operated or token-operated?**

5. List two ways in which an ice cream shop is similar to a sock shop.
*** They both have a store location that costs money, and they both sell a product that costs money to produce.**

Write About the Topic

Use the Writing Form to write about what you read.

Explain what would happen if a business owner didn't consider income and expenses. Use text details and your own examples.



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A Business Uses Math ■ ■ ■ 105



These answers will vary. Examples given.

Page 107

Name _____

All Businesses Use Math

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Which is a similarity between a restaurant and a bookstore?
 - A Its main expense has an expiration date.
 - B The business uses equipment to make its products.
 - C Customers purchase a product they can use for years.
 - D Customers pay to receive a product.

2. Business owners could _____ if they notice that their expenses exceed their income.
 - A change their purpose
 - B cut expenses by using cheaper materials
 - C hire more staff and give them a raise in pay
 - D change the store's hours to a time that's less busy

3. Describe some math operations a business owner could use to calculate a day's income.
An owner can add receipt totals, then multiply the staff's hourly pay for the day, subtracting it from the income.

4. Why would owners choose to keep a business open for fewer hours?
They have to pay employees' salaries for all the hours. The cost of being open could be high.

5. Why are profits significant for a business?
A business needs to make money to pay its expenses. An owner makes money when income exceeds costs.

Write About the Topic

Use the Writing Form to write about what you read.



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A Business Uses Math ■■■ 107

Page 115

Name _____

Math and Video Games

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Video game developers use variables _____.
 - A to receive data
 - B to operate a game controller
 - C to hold values on a coordinate plane
 - D to apply geometry

2. The main idea of this text is that math _____.
 - A has nothing to do with art in video games
 - B doesn't affect video game players
 - C is helpful but not necessary in creating a video game
 - D is essential in creating a video game

3. Describe a video game you are familiar with and how geometry is used.
I play Mario Kart, and it uses geometry to create the track and the obstacles on the track.

4. How does physics affect your game play?
Physics makes the game characters and actions move and behave like the real world.

5. Based on the text, what inference can you make about video game developers?
Video game developers have to be excellent at math and understand how it affects game play.

Write About the Topic

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Video Game Development ■■■ 115

Page 109

Name _____

Making a Profit

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Business owners who calculate their business's average weekly income _____.
 - A must have a successful business
 - B probably make business decisions without considering records
 - C cannot estimate how much their expenses will be per week
 - D can estimate how much money the business makes in a year

2. A business is not profitable if _____.
 - A the expenses are covered by the income
 - B the owner has too few staff members
 - C its expenses exceed its income
 - D its income exceeds its expenses

3. Explain how math plays a role in a business owner's decision making.
Math is used to determine if an expense is worth it or if a profit is being made; it helps to balance income and cost.

4. Why is time an important consideration for business owners?
Time affects an owner's ability to make money and influences decisions about what hours to stay open.

5. Could a business owner be successful without financial records? Explain your answer.
You need a record of income and expenses. These show how much money goes in and out of the business.

Write About the Topic

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A Business Uses Math ■■■ 109

Page 117

Name _____

Math at Play

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Video game developers use variables _____.
 - A to make a coordinate plane
 - B to follow the laws of physics
 - C instead of trying to anticipate every possibility
 - D to interact with objects in a game

2. We see physics as applied math in the real world when we _____.
 - A see obstacles in a game
 - B run into something
 - C see how colorful a game environment is
 - D choose a character to play the game as or with

3. Describe a video game you are familiar with and how geometry is used.
I play Legend of Zelda, and geometry is used to create obstacles that Link has to overcome.

4. What is the main idea of this text?
Math is used to create almost everything in video games, and players don't even realize how much math is used.

5. Could a video game be created without using math? Explain why or why not.
No, because nothing in the game would make sense. The scores, sizes, and times would be wrong.

Write About the Topic

Use the Writing Form to write about what you read.



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Video Game Development ■■■ 117



These answers will vary. Examples given.

Page 119

Name _____

The Game Developer's Toolkit

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Developers use variables _____.

- A to establish directives
- B to execute a function
- C to hard-code every possibility
- D to hold values

2. A game developer can use geometry to _____.

- A plot a character's location on a coordinate plane
- B create a vector
- C create obstacles in the game
- D define a variable

3. What would happen if a video game did not use vectors?

* The game would not know where or at what speed to move because it would not have the values it needs.

4. In your own words, explain pathfinding.

* Pathfinding is when the computer finds the shortest route between two points.

5. Explain why physics is important in a video game.

* Without physics, my character would walk through walls or never stop falling after a jump. Physics makes games more realistic.

Write About the Topic

Use the Writing Form to write about what you read.



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Video Game Development ■ ■ ■ 119

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Name _____

Prosthetics Innovation

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. What is the main idea of this text?

- A Artistic creativity has improved the quality of artificial limbs.
- B Technology has improved the quality of artificial limbs over time.
- C The earliest uses of prosthetics were better than today's.
- D The oldest prosthetic device is 3,000 years old.

2. Why were the earliest artificial limbs more simple?

- A Technology wasn't as advanced back then.
- B Technology was more advanced back then.
- C They didn't have any of the same materials we have now.
- D People didn't need artificial limbs back then.

3. What is one possible challenge knights using an iron artificial limb had? Why?

* Movement and flexibility would have been a challenge.
Iron does not bend.

4. Which areas of prosthetics technology have seen improvement over the years?

* Prosthetics attach to the body better now, and prosthetics with hinges allow them to bend.

5. Are today's prosthetic limbs necessarily better than those of the past? Why or why not?

* They are probably better, because the materials look more natural and the limbs have better movement.

Write About the Topic

Use the Writing Form to write about what you read.



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The Field of Prosthetics ■ ■ ■ 127

Page 125

Name _____

What Is Prosthetics?

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. An individual may consider _____ when choosing an artificial limb.

- A material, size, and function
- B appearance
- C fit
- D all of the above

2. The terms "prostheses," "artificial limbs," and "prosthetic limbs" _____.

- A are used in different areas of medicine
- B relate to leg replacements only
- C have completely different meanings
- D refer to the same thing

3. Explain the differences between the artificial limbs shown in the text.

* Some replace more of the leg than others. Some are above the knee, some are below. One has a hip joint.

4. How does the author support the idea that there are different kinds of artificial limbs?

* The author provides several examples, including that limbs are different sizes. Pictures show examples, too.

5. In your own words, what is the main purpose of artificial limbs?

* To help users live the lifestyle they want and to have more freedom.

Write About the Topic

Use the Writing Form to write about what you read.



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The Field of Prosthetics ■ ■ ■ 125

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Name _____

Prosthetics: Past and Present

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Why did doctors in the 1500s most likely seek to change prosthetics?

- A They wanted to make prosthetics a more popular field of medicine.
- B They thought adding joints could improve the user's movement.
- C Prosthetics technology at that time was extremely advanced.
- D Artificial limbs didn't exist during the Middle Ages.

2. The archaeological discovery in Egypt was significant because it showed that _____.

- A ancient civilizations had knights
- B ancient civilizations had computer technology
- C prosthetics existed in ancient civilizations
- D prosthetics didn't exist thousands of years ago

3. How does the photo support the main idea of the text?

* The athlete uses a prosthetic limb, which supports the idea that people need durable prosthetic options now.

4. How have people's expectations of prosthetics changed over time?

* People expect more durable, flexible prosthetics now.
People expect high-functioning prosthetics.

5. What does the author mean by stating that early prosthetic designs still apply today?

* It means that even though a lot has changed and we have more technology now, we still use the early ideas.

Write About the Topic

Use the Writing Form to write about what you read.



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The Field of Prosthetics ■ ■ ■ 129



These answers will vary. Examples given.

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Name _____

What Engineers Do

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Air travel would _____ without engineers.
 A continue
 B be safer
 C be impossible
 D be possible
2. A civil engineer probably considers _____ when designing a highway.
 A the amount of sunlight
 B the weight of vehicles
 C how much water is used daily
 D the number of families per U.S. state
3. List two things you've done that were probably possible because of engineering.
*** I have ridden on a roller coaster, and I have been in a vehicle on a highway many times.**
4. Why do you think engineers are needed in so many different fields and specialties?
*** There are many areas in which we need safe, reliable structures and technology.**
5. How does the author support the idea that engineering is competitive?
*** The author gives an example of how engineers try to improve past designs, such as cars.**

Write About the Topic

Use the Writing Form to write about what you read.



Explain how the world would be different without engineers. Use details from the text and your own examples.

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Engineers Do Important Work ■ ■ ■ 135

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Name _____

Engineers Start with a Concept

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. What does the author mean by stating "an engineer made it real"?
 A Engineers are hired by people who need ideas.
 B Engineers are the people who usually have good ideas.
 C Ideas are real, and objects are not real.
 D A concept is just an idea until someone figures out how to build it.
2. Having scientific knowledge helps an engineer to _____.
 A determine whether or not to follow the engineering process
 B learn more about theme parks
 C create a design that could work in its environment
 D learn more about rules at hospitals
3. List some things that you use that were probably designed by an engineer.
*** my cellphone, my computer, my remote control car, my PE shoes, the bridge near my house**
4. Why is it important for engineers to use a process?
*** The process helps the engineers create a safer thing that will actually work.**
5. If the final product failed the testing stage, what do you think an engineer would do?
*** The engineer would probably make changes to the design to see if all the hard work could be saved.**

Write About the Topic

Use the Writing Form to write about what you read.



Think of something created by an engineer. Explain how an engineer used the process to create it and what considerations the engineer probably made. Use text details.

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Engineers Do Important Work ■ ■ ■ 139

Page 137

Name _____

Branches of Engineering

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. One of a chemical engineer's tasks is to _____.
 A add hazardous chemicals to products
 B build water pipes
 C create large structures
 D make products safe for the environment
2. The main idea of this text is that _____.
 A most engineers work with highways and bridges
 B all branches of engineering are important
 C some branches of engineering are less important
 D all engineers make the world less safe
3. Which type of engineering in the text do you think affects you the most? Explain why.
*** Water resource engineering probably affects me most because I use water daily for drinking and bathing.**
4. Explain why diminishing quantities of usable water is a problem that engineers can help with.
*** Engineers can develop equipment that makes water cleaner and that holds usable water.**
5. Explain how the author supports the idea that engineers solve problems.
*** The author gives examples of how engineers solve problems related to water and the environment.**

Write About the Topic

Use the Writing Form to write about what you read.



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Engineers Do Important Work ■ ■ ■ 137

Page 145

Name _____

An Invention We Depend On

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Joseph Swan was probably _____.
 A a candle maker
 B a customer
 C an architect
 D a scientist
2. Why does the author state that light bulbs were a "luxury"?
 A They weren't common.
 B They were viewed similarly to how they're viewed today.
 C They didn't change the things that people were able to do.
 D Everyone had them in their homes during the 1800s.
3. Write one of the main ideas of the text.
*** A lot of people worked for many years to create the light bulb. The light bulb has changed the way people live.**
4. Why was it significant that lights could be placed in new places such as elevators?
*** People could use elevators at night. People could extend their hours for work and play because of light bulbs.**
5. Why do you think scientists spent so much time creating a constant stream of light?
*** A long stream of dependable light allows people to work and read and do other activities.**

Write About the Topic

Use the Writing Form to write about what you read.



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Inventions Impact Our Lives ■ ■ ■ 145



These answers will vary. Examples given.

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Name _____

Creative Inventions

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. The main idea of the text is that _____.
 - A people invent things for no specific reason
 - B inventions make our lives easier and better
 - C inventions are usually silly and fun
 - D all inventions have practical uses

2. People invent things _____.
 - A for many different purposes
 - B mainly for attention
 - C mostly for comfort
 - D for work

3. Is an invention more, less, or equally valuable if created by accident? Explain why.
An invention can be valuable even if created by accident. Some silly inventions are created on purpose.

4. What does the author mean by stating that some inventions allowed further progress?
The author uses the computer as an example. The first computer was good, but its technology kept improving.

5. Which of the "wacky" inventions did you find most surprising, and why?
The finger fork is funny because I can't imagine using a fork that way. It's not like it's hard to just hold a fork!

Write About the Topic

Use the Writing Form to write about what you read.



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Inventions Impact Our Lives ■ ■ ■ 147

Page 155

Name _____

Augusta Savage's Work

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Augusta showed determination by _____.
 - A sculpting with her thirteen siblings
 - B using red clay to create sculptures
 - C finding a way to sculpt after not being able to get red clay
 - D spending money on expensive sculpting materials

2. In the photo, Augusta appears as though she is probably _____.
 - A content
 - B confused
 - C stressed out
 - D bored

3. Do you think the county fair was an important event in Augusta's life? Why or why not?
Yes, because she could sell her art, and she realized that she had talent because people bought her art.

4. Did Augusta respond appropriately to the selection committee's decision? Why or why not?
Yes, because its decision was unfair. She tried to let everyone know it was unfair. Talent does not have a color.

5. Why do you think Augusta supported other African American artists?
She was an African American artist who struggled with racism herself. She knew how hard she had to work.

Write About the Topic

Use the Writing Form to write about what you read.



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Augusta Savage ■ ■ ■ 155

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Name _____

Technology and Inventions

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. A search-and-rescue drone would likely be used to _____.
 - A protect people from natural disasters
 - B help with food preparation
 - C go to locations that are too dangerous for people
 - D make people feel comfortable in their homes

2. Why does the author include the questions in the table?
 - A These are the only important questions about society.
 - B The answers to all the questions can be found in the text.
 - C The author wants readers to memorize the answers to the questions.
 - D The questions encourage readers to think about different aspects of society.

3. How does the author support the idea that technology reveals information about society?
The author provides examples of the types of questions we can answer by looking at technology.

4. Write one of the main ideas from the text.
Technology can reveal information about the society that uses it.

5. People have invented things for centuries. What does this say about us?
It means that people have a need to improve their lives and to make progress.

Write About the Topic

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Inventions Impact Our Lives ■ ■ ■ 149

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Name _____

An Artist and Activist

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. It was difficult for Augusta to develop her sculpting skills _____.
 - A with red clay
 - B at the Harlem Community Art Center
 - C at the Savage Studio of Arts and Crafts
 - D with little support from her father

2. Augusta was the director of the art center most likely because _____.
 - A she had the least amount of experience with art
 - B she was passionate about supporting other African American artists
 - C nobody else believed in the cause of supporting other artists
 - D free art instruction wouldn't provide a large income

3. Do you think Augusta responded to struggles in her life?
She didn't let hardship stop her from doing what she wanted. She challenged things she didn't agree with.

4. How does the author support the idea that Augusta was an activist?
The author describes how Augusta handled racism and gives examples of the work Augusta did to help others.

5. What do you admire or dislike about Augusta Savage? Explain why.
I admire that Augusta kept sculpting even though she didn't have support in the beginning.

Write About the Topic

Use the Writing Form to write about what you read.



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Augusta Savage ■ ■ ■ 157



These answers will vary. Examples given.

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Name _____

Augusta Savage's Life

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. Augusta was probably hopeful that contacting newspapers would _____.
 - encourage the selection committee to change its decision
 - make newspaper readers more interested in art
 - make the committee cancel the art program in France
 - encourage the selection committee to reject other applicants, too

2. Augusta's art and activism most likely _____.
 - caused her nephew to be embarrassed
 - allowed fewer African Americans to become artists
 - encouraged more writers to ask for busts of themselves
 - helped change perceptions of African Americans for the better

3. Explain why it was probably important for Augusta to make art accessible to all races.
*** Augusta had little support for her own interest in art early on. She also experienced racism in her art studies.**

4. Write one question you would ask Augusta if you could interview her today.
*** Did you feel proud when you were asked to make the sculpture for the 1939 World's Fair?**

5. Describe the sculpture *Gamin*. What feeling do you get from it?
*** The sculpture is of a young boy who looks serious. I feel like he might be sad.**

Write About the Topic

Use the Writing Form to write about what you read.



Explain how Augusta affected future generations with her work. Use details and examples to support your answer.

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Augusta Savage ■■■ 159

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Name _____

Unique Art

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. The author probably decided on the title "Unique Art" because _____.
 - using garbage reduces waste
 - garbage is the only unique medium
 - art created from garbage is usually one-of-a-kind
 - plastic bag art has to be unique

2. One reason that Peter Singer created *World of Litter* could have been to _____.
 - create art that also serves as water transportation
 - spend time cleaning plastic bottles
 - teach other people how to become artists
 - raise awareness about environmental waste

3. Write two questions the text raised for you but didn't answer.
*** 1) Is plastic the main form of waste used in most art?**
*** 2) Do the artists who use garbage sell their artwork?**

4. Describe one image shown in the text that you liked or found interesting.
*** I like the snowy landscape art because it really looks like snow. It's believable.**

5. Explain in your own words the difference between artistic methods and art mediums.
*** Methods are actions artists can take to transform materials. Mediums are the materials artists use.**

Write About the Topic

Use the Writing Form to write about what you read.



Write a short essay persuading artists why they should use garbage in their art. Use your own examples and text details.

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Art or Garbage? ■■■ 167

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Name _____

From Trash Can to Art Gallery

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. One thing the artwork in all the photos has in common is probably that _____.
 - none of the artwork is pleasing to the eye
 - all of the artwork is made of plastic only
 - the artists felt like they had no choice of mediums
 - the artists were inspired by the mediums they used

2. The purpose of this text is to _____.
 - inform about garbage being used for art
 - persuade that garbage makes better art
 - entertain with a story about garbage
 - teach the process of making art out of garbage

3. Do any photos in the text show art you'd want in your home? Explain why or why not.
*** Yes, I wouldn't mind having the elephant in my home because it is fun and creative.**

4. Which would an artist prefer to use as a medium: garbage, clay, or paint? Explain why.
*** It would depend on the artist's purpose, or if paint or clay is expensive. Garbage is cheaper. It depends on the art.**

5. Explain how the sculpture in Taiwan would encourage awareness about plastic waste.
*** It is a huge sculpture that got international attention, so lots of people thought about how much waste it took to make.**

Write About the Topic

Use the Writing Form to write about what you read.



Would the artwork in the photos be better if it wasn't made of discarded items? Support your opinion with text details.

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Art or Garbage? ■■■ 165

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Name _____

One Person's Junk...

Fill in the circle by the correct answer. Then write the answers to numbers 3, 4, and 5.

1. The main idea of this text is that _____.
 - art that is avant-garde can't have a message
 - discarded items can be used to make art
 - only plastic bag art can be avant-garde
 - auto-destructive art always has a message

2. An example of auto-destructive art could be a _____.
 - rusty tricycle in a yard with plants growing around it
 - finger painting hanging on a clean wall
 - red jar filled with beans on a fresh white doily
 - framed drawing of a tree

3. Do you agree with the author about the popular saying quoted in the text? Why or why not?
*** Yes, I agree. Someone threw away items, but an artist found a way to use them to make something to enjoy.**

4. How did the author support the idea that garbage art is avant-garde?
*** The author defined avant-garde as being unconventional. Using garbage for art is unconventional. The wreath shown is, too.**

5. What does artwork with traditional mediums have in common with garbage artwork?
*** Art with traditional mediums can also have an important message and be avant-garde.**

Write About the Topic

Use the Writing Form to write about what you read.



Is all garbage art avant-garde or sharing an important message? Write an argument for why or why not.

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Art or Garbage? ■■■ 169