

## 9th Grade Worksheet Bundle

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# Study Island 9th Grade Language Arts - Parallel Structure

## Question 1 .

### Photography

The invention of the camera in the 19th century was a major attraction for many people. They were thrilled to know that they could now capture special moments, save them in a tangible form, and making memories. A camera is a device that allows light to fall on a screen, which is recorded on film or as a digital file the moment you click the Capture button.

Before the invention of modern cameras, people were not able to capture exact images but creating images using chemicals. Modern day cameras use digital technology and perform far better than their earlier counterparts. However, the ability to capture moving objects and record small details was impossible with the earliest cameras.

**Directions: Select all the correct answers.**

Based on the passage, which two of the following sentences have incorrect parallel structure?

- Before the invention of modern cameras, people were not able to capture exact images but creating images using chemicals.
- However, modern day cameras use digital technology and perform far better than their earlier counterparts.
- They were thrilled to know that they could now capture special moments, save them in a tangible form, and making memories.
- The ability to capture moving objects and record small details was impossible with the earliest cameras.
- A camera is a device that allows light to fall on a screen, which is recorded on film or as a digital file the moment you click the capture button.

## Question 2 .

### Cat Scratch Disease

(1) The black cat arched its back, flattened its ears, and, with a low hiss, slicing Lucas' arm with sharp claws. (2) A red line appeared on Lucas' skin, and he gritted his teeth against the sting. (3) Little did he know that bacteria called *Bartonella henselae* had just entered his body.

(4) Cat scratch disease (CSD), sometimes called cat scratch fever, is a bacterial infection that can affect humans who have been scratched or bitten by a cat. (5) The symptoms of CSD include fever, headache, fatigue, poor appetite, and swollen lymph nodes. (6) Major complications are rare. (7) For healthy individuals, either the body's immune system can clear the infection or the patient can take an antibiotic.

(8) About 40 percent of cats will carry the bacteria during their lifetime. (9) Cats don't have any symptoms once infected, so pet owners cannot tell if their cats are carriers. (10) The best ways to prevent CSD are washing cat bites and scratches with soap and water, do not allow cats to lick your wounds, and going to the doctor at the first sign of wound infection.

Which sentence from the passage demonstrates an **error** in parallel structure?

- A. sentence 2
- B. sentence 10
- C. sentence 7
- D. sentence 5

Question 3 .

Directions: Select the correct answer from each drop-down menu.

Choose the correct phrase to make each sentence parallel.

Obtaining Raw Materials

Humans use many raw materials—such as wood, coal, oil, and stone—to  However, obtaining these materials can often damage the environment and disturb natural ecosystems. Logging, for example, can destroy plant and animal habits, while mining can permanently alter landscapes and pollute nearby bodies of water. While raw materials are essential to everyday human life, the consequences of extracting those materials could be dire. To maintain healthy ecosystems, people must be aware that obtaining raw materials has an impact not only on the Earth

Question 4 .

(1) Annie Oakley was a sharpshooter and entertainer who lived from 1860 to 1926. (2) She not only is known for her amazing shooting abilities but also her work to educate and inspire women of her time.

(3) When Annie joined *Buffalo Bill's Wild West* in 1885, the show not only had never hired a female cast member but also had never featured narratives that involved women. (4) Through her performances, Annie showed that women could be tough, self-reliant, and equal to men.

(5) Off the stage, Annie used her skills and knowledge to help other women. (6) She claimed to have taught 15,000 women about how to shoot guns and defending themselves.

(7) In one article that appeared in a Cincinnati newspaper, Annie described how to conceal a gun under an umbrella if a woman was walking on the street alone.

(8) Annie avoided politics, so she never aligned with the women's suffrage movement in the early 1900s. (9) However, she did speak out for women's rights, saying that women should be able to work outside the home, women should get equal pay for equal work, and women should be able to defend themselves.

Which sentence from the passage demonstrates an **error** in parallel structure?

- A. sentence 2
- B. sentence 3
- C. sentence 9
- D. sentence 4

Question 5 .

Directions: Select the correct text in the passage.

Which two sentences show incorrect parallel structure?

The Spirit of Sportsmanship

Have you ever felt bad because you could not win a game against a rival team? People commonly feel sad or feeling withdrawn because of failure. Winning a game or any other competition is a proud moment for every sports player.

Many people are overwhelmed by their victory but getting depressed by failures is easy. Even the most successful people have had their share of failures. Winning or losing never matters, but your participation matters. If you stop trying, you will stop learning.

Question 6 .

**Directions: Select the correct answer from each drop-down menu.**

Choose the correct phrase to make each sentence parallel.

**Air Pollution**

Air pollution is one of the major concerns of industrialized nations. Air becomes polluted when the quantity of harmful gases increases. Air helps us

. Breathing polluted air is equivalent to inviting illness. Various respiratory problems like asthma and respiratory tract infections can be attributed to air pollution.

Polluted air is not only harmful for us  The responsibility to make air cleaner lies with every one of us. Using renewable energy sources will reduce air pollution significantly.

Question 7 .

**Directions: Select the correct answer from each drop-down menu.**

Choose the correct phrase to make each sentence parallel.

**Microelectronics**

Do you use your cell phone or tablet often? Well, you should be grateful to the field of microelectronics. This field of electronics has redefined technology and  our lives. Its application in the field of mobile technology has enabled companies to manufacture powerful smart devices. Indeed, this field has revolutionized the way we use technology and  us become more informed and connected.

Question 8 .

**Directions: Select the correct answer from each drop-down menu.**

Choose the correct phrase to make each sentence parallel.

**The Mexican War**

In 1836, Texas declared its independence from Mexico. Mexico, however, did not officially recognize the independence. When the United States annexed Texas in 1845, Mexico saw this as an act of aggression and  The U.S. and Mexico also had a dispute over which river separated the two countries. The U.S. claimed that the border was the Rio Grande, whereas Mexico claimed it was the Nueces River, which is farther north. President James K. Polk ordered General Zachary Taylor and his troops to the north bank of the Rio Grande. Mexico viewed this as an invasion of their country and

The U.S. declared war on Mexico on May 13, 1846. Shortly after the war began, Congressman David Wilmot of Pennsylvania submitted a proposal to Congress that would have outlawed slavery in any land acquired from Mexico. The amendment, known as the Wilmot Proviso, was not approved by Congress. However, it raised the issue of how the United States should deal with the expansion of slavery in new U.S. territory. The Mexican War continued until the U.S. and Mexico signed the Treaty of Guadalupe Hidalgo. In this treaty, Mexico not only recognized the Rio Grande as the border between Texas and Mexico

Parts of

Wyoming and Colorado also became U.S. land. The U.S. paid Mexico \$15 million dollars for the land.

Question 9 .

(1) Annie Oakley was a sharpshooter and entertainer who lived from 1860 to 1926. (2) She not only is known for her amazing shooting abilities but also her work to educate and inspire women of her time.

(3) When Annie joined *Buffalo Bill's Wild West* in 1885, the show not only had never hired a female cast member but also had never featured narratives that involved women. (4) Through her performances, Annie showed that women could be tough, self-reliant, and equal to men.

(5) Off the stage, Annie used her skills and knowledge to help other women. (6) She claimed to have taught 15,000 women about how to shoot guns and defending themselves.

(7) In one article that appeared in a Cincinnati newspaper, Annie described how to conceal a gun under an umbrella if a woman was walking on the street alone.

(8) Annie avoided politics, so she never aligned with the women's suffrage movement in the early 1900s. (9) However, she did speak out for women's rights, saying that women should be able to work outside the home, women should get equal pay for equal work, and women should be able to defend themselves.

What is the **best** way to revise sentence 6?

- A. She claimed to have taught 15,000 women about how to shoot guns and how to defend themselves.
- B. She claimed to have taught 15,000 women about how to shoot guns and also she taught about defending themselves.
- C. She claimed to have taught 15,000 women about how to shooting guns and defend themselves.
- D. She claimed to have taught 15,000 women about shooting guns and to defend themselves.

Question 10 .

At the high school talent show, Keegan walked onto the stage, sat at the piano, and, with everyone in the audience watching him, belting out a well-known show tune.

Which underlined part of the sentence, if any, contains an error?

- A. with everyone in the audience watching
- B. No error
- C. walked onto the stage
- D. belting out a well-known show tune

# Study Island 9th Grade Algebra - Rate of Change

## Question 1 .

A pizza buffet has prepared 16 pizzas to place on the line at the beginning of lunch at 11:00 a.m. The equation used to describe the total number of pizzas that have been placed out on the buffet line is shown below.

$$y = 12x + 16$$

If  $x$  represents every 6 minutes after 11:00 a.m, which statement best describes the rate of change in the number of pizzas set out on the buffet?

- A. Every 12 minutes, 12 more pizzas were set out on the buffet.
- B. Every 12 minutes, 24 more pizzas were set out on the buffet.
- C. Every 12 minutes, 34 more pizzas were set out on the buffet.
- D. Every 6 minutes, 22 more pizzas were set out on the buffet.

## Question 2 .

James is making a map for Geography. In order to draw the map, he must create a scale converting the measured inches on the map to actual miles.

Length in Inches	$1 \frac{1}{4}$	$1 \frac{1}{2}$	$1 \frac{3}{4}$	$2 \frac{1}{4}$	$2 \frac{1}{2}$	$2 \frac{3}{4}$
Length in Miles	75	90	105	135	150	165

Use the table above to identify the scale he used for his map.

- A. 1 in = 20 miles
- B. 1 in = 15 miles
- C. 1 in = 60 miles
- D. 1 in = 30 miles

## Question 3 .

For a fundraiser, Marcus needs to raise \$900 in order to meet his goal. Marcus will walk a certain number of miles, and he will receive donations for each mile he walks. The table represents the amount of money he has left to raise after  $x$  miles of walking.

$x$	2	4	6	8	10	12
$g(x)$	\$838	\$776	\$714	\$652	\$590	\$528

What is the average rate of change over the interval  $[6, 10]$ ?

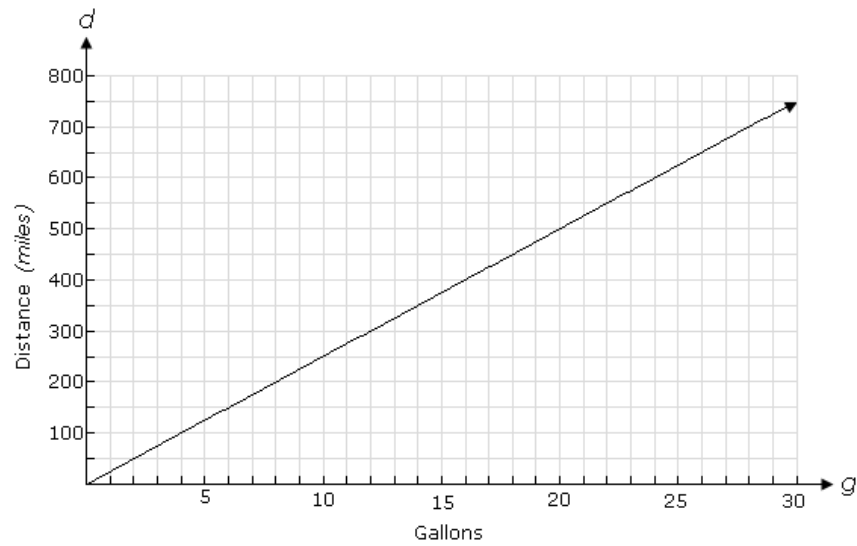
- A. -\$62 per mile
- B. \$62 per mile
- C. -\$31 per mile
- D. \$31 per mile

Question 4 .

Cesar needs  $1\frac{1}{4}$  cups of flour to make a cake that will serve 16 people. If Cesar wants to make enough cake to serve 48 people, how many cups of flour will he need?

- A. 3
- B.  $4\frac{1}{2}$
- C.  $3\frac{3}{4}$
- D.  $2\frac{1}{2}$

Question 5 .

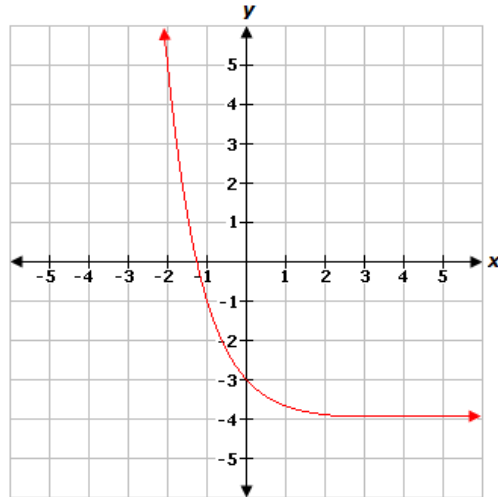


The graph shows the distance a car can travel,  $d$ , on  $g$  gallons of gasoline. How many miles per gallon does the car get?

- A. 30 miles per gallon
- B. 35 miles per gallon
- C. 25 miles per gallon
- D. 20 miles per gallon

Question 6 .

Find the average rate of change of the function below over the interval  $[-2, 0]$ .



- A.  $\frac{1}{3}$
- B. 6
- C.  $-4$
- D.  $\frac{1}{6}$

Question 7 .

Luella drives her vehicle the same number of miles each day. The number of miles remaining before her vehicle is due for its next routine service is represented by the function below, where  $x$  represents the number of days she has driven her vehicle since her last routine service.

$$M(x) = 4,000 - 38x$$

What is the average rate of change over the interval  $[60, 90]$ ?

- A. 38 miles per day
- B. -38 miles per day
- C. 15 miles per day
- D. -15 miles per day

Question 8 .

The price of a recreational vehicle that is  $x$  years old is represented by the function below.

$$P(x) = \$34,280(0.86)^x$$

What is the approximate average rate of change over the interval  $[1, 9]$ ?

- A. \$3,830.20 per year
- B. -\$2,582.45 per year
- C. -\$3,182.35 per year
- D. -\$20,659.62 per year



**Question 9 .**

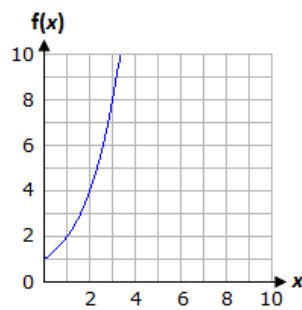
Sending text messages from Katrina's cell phone costs \$0.16 per text message. From last month, she has a credit on her bill for \$8.00. How much more money will she need to pay for text messages this month if she has sent 246 messages?

- A. \$32.86
- B. \$39.36
- C. \$29.36
- D. \$31.36

**Question 10 .**

**Directions: Drag each tile to the correct box.**

Observe the three exponential functions below, each one expressed as a graph, table, or equation.



$x$	$g(x)$
1	11
2	29
3	83
4	245
5	731

$$h(x) = 2(4)^x - 2$$

Put the functions, with their corresponding intervals, in order from least to greatest according to their average rates of change over those intervals.

$h(x)$   
interval  $[2, 3]$

$g(x)$   
interval  $[2, 4]$

$f(x)$   
interval  $[2, 3]$

$h(x)$   
interval  $[3, 4]$

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