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Part Five

# PRACTICE TEST

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## Chapter 25

# Practice Test

Before taking this practice test, find a quiet place where you can work without interruption for 3 hours and 45 minutes. Make sure you have a comfortable desk, several pencils, and scratch paper. Time yourself according to the time limits shown at the beginning of each section. For the most accurate results, you should go through all five sections in one sitting. When you're finished, consult the answer key and explanations found in the next chapter to see how you performed. We've also provided a scoring scale that will give you an approximation of your scoring ability. Good luck!

While the practice test you are about to take will provide you with a rough idea of the kind of questions you'll face on your official GRE, keep in mind that nearly all GRE examinations are administered on a computer. As you learned in Chapter 2, that means that based on your performance in the first section of both Quantitative and Verbal Reasoning, the computer-based GRE will produce a low, medium, or high difficulty second section. Since the printed practice test you are about to take does not adapt based on your performance, it is different in kind and degree than the actual computer-based GRE you will likely see on Test Day. For a more accurate representation of the GRE, and to see a more accurate reflection of your scoring abilities, we recommend that you take your Kaplan online practice tests.

In general, the way you approach this printed practice test will be very similar to the way you approach the official computer-based GRE. On the actual test, you will be given scrap paper that you can use to jot down important words or phrases or to calculate mathematical problems. We recommend you do that here. Also, on the official GRE you will have the ability to mark questions within a section to return to them later if time allows. It would be a good idea to use that same approach in this practice test. Finally, we suggest that you write your essays if you're going to take the paper-based GRE, and type your essays if you plan to take the computer-based GRE, to better simulate the Test Day experience. If you use a computer, you should type your essays with spell-check and grammar-check off.

# Analytical Writing 1: Analyze an Issue

30 Minutes — 1 Question

## Directions

You will be given a brief quotation that states or implies a topic of general interest, along with explicit instructions on how to respond to that topic. Your response will be evaluated according to how well you do the following:

- Respond to the specific directions the task gives you
- Reflect on the complexities of the issue
- Organize and develop your thoughts
- Support your reasoning with relevant examples
- Express yourself in standard written English

Scientific theories, which most people consider as ‘fact,’ almost invariably prove to be inaccurate. Thus, one should look upon any information described as ‘factual’ with skepticism since it may well be proven false in the future.

Write an essay in which you take a position on the statement above. In developing and supporting your viewpoint, consider ways in which the statement might or might not hold true.

# Analytical Writing 2: Analyze an Argument

30 Minutes — 1 Question

## Directions

You will be presented with a short passage that asserts an argument or position, along with explicit instructions on how to respond to the passage. Your response will be evaluated according to how well you do the following:

- Respond to the specific directions the task gives you
- Analyze and interpret important elements of the passage
- Organize and develop your analysis
- Support your reasoning with relevant examples
- Express yourself in standard written English

The following appeared in a memorandum from the owner of the Juniper Café, a small, local coffee shop in the downtown area of a small American city:

“We must reduce overhead here at the café. Instead of opening at 6 a.m. weekdays, we will now open at 8 a.m. On

weekends, we will only be open from 9 a.m. until 4 p.m. The decrease in hours of operations will help save money because we won't be paying for utilities, employee wages, or other operating costs during the hours we are closed. This is the best strategy for us to save money and remain in business without having to eliminate jobs."

Write a response in which you discuss what questions would need to be answered in order to assess the reasonableness of both the prediction and the argument upon which it is based. Be sure to explain how the answers to these questions would help to evaluate the prediction.

YOU HAVE FINISHED THIS SECTION AND NOW WILL BEGIN THE NEXT SECTION.

# Verbal Reasoning 1

30 Minutes — 20 Questions

## Directions

For each item, select the best answer choice using the directions given.

If a question has answer choices with ovals, then the correct answer will be a single choice. If a question's answer choices have squares, the correct answer may have more than one choice. Be sure to read all directions carefully.

For each blank, select an answer choice from the corresponding column of choices. Fill in the blank in such a way that it best completes the text.

1. The oppressive regime, having taken control of the country's military and mass media, sought to \_\_\_\_\_ the fledgling rebellion that aimed to restore individual freedoms.

- (A) produce
- (B) facilitate
- (C) stymie
- (D) elucidate
- (E) redress

2. According to Norse mythology, the mischievous god Loki, a shape-shifting deity known for his \_\_\_\_\_, would often transform into animals in order to interfere with the other gods' plans and alliances.

- (A) avarice
- (B) chicanery
- (C) pragmatism
- (D) diffidence
- (E) apathy

3. The Dewey Decimal System, a numerical method devised by Melvil Dewey in 1876 for categorizing nonfiction books according to topic, may seem (i)\_\_\_\_\_ when compared to the advanced technologies found today in most modern libraries, but it continues to be a valuable organizational tool. The system has developed dramatically since its inception, and it is likely to continue to evolve in perpetuity as the accumulation of the knowledge it catalogs is (ii)\_\_\_\_\_ pursuit.



<u>Blank (i).</u>	<u>Blank (ii).</u>
A abstruse	D a vacuous
B archaic	E an illuminating
C misguided	F an inexhaustible

4. The intrepid group of veteran hikers chose to advance along a mountain path that was notoriously (i)\_\_\_\_\_, while the (ii)\_\_\_\_\_ team of inexperienced hikers took a decidedly more circuitous, though less challenging, trail.

<u>Blank (i).</u>	<u>Blank (ii).</u>
A facile	D circumspect
B scenic	E bewildered
C treacherous	F reckless

5. The 1918 influenza pandemic initially drew (i)\_\_\_\_\_ attention, principally due to the fact that most regions experienced (ii)\_\_\_\_\_ fatalities among the enormous numbers of people infected. Yet, there were warnings: those who did expire from influenza were often young adults who, prior to their infection, had been of (iii)\_\_\_\_\_ health.

<u>Blank (i).</u>	<u>Blank (ii).</u>	<u>Blank (iii).</u>
A widespread	D myriad	G unpredictable

B adverse	E infrequent	H vulnerable
C scant	F innumerable	I sound

6. The replacement of human steelworkers with robots has not only made the steel production process involving molten metal less (i)\_\_\_\_\_ but has also (ii)\_\_\_\_\_ production quality due to the robots' ability to make very precise measurements, each at the same exact place and under the same conditions as the others.

Blank (i).

Blank (ii).

A humane	D hampered
B perilous	E sterilized
C compassionate	F enhanced

For the following questions, select the two answer choices that, when inserted into the sentence, fit the meaning of the sentence as a whole and yield complete sentences that are similar in meaning.

7. Johnson's colleagues were \_\_\_\_\_ when he was awarded tenure by the university; his ideas were seldom acknowledged

or discussed by other scholars, and when they were discussed, they were usually dismissed outright.

- ☐ A irate
- ☐ B unsurprised
- ☐ C perplexed
- ☐ D envious
- ☐ E bewildered
- ☐ F gratified

8. For many professionals, the promise that mobile communication will improve peace of mind has collided with the reality that the ability to be reached by superiors during times intended to be devoted to family can lead to \_\_\_\_\_.

- ☐ A flexibility
- ☐ B serenity
- ☐ C perturbation
- ☐ D productivity
- ☐ E vexation
- ☐ F tranquility

9. During the 16th century, many food plants native to the Americas, including specimens as \_\_\_\_\_ as potatoes and chocolate, were transported to Europe, where they reshaped people's diets and revolutionized traditional cuisines.

- ☐ A distributed
- ☐ B varied
- ☐ C regarded
- ☐ D diverse
- ☐ E unexpected
- ☐ F reviled

10. Historically, soap has been \_\_\_\_\_ by treating animal or vegetable oils with a strong base, such as sodium hydroxide, to create a form of lipid with hydrophobic “tails,” which surround oil and other particles, and hydrophilic “heads,” which attract water molecules.

- ☐ A manufactured
- ☐ B enhanced
- ☐ C improved
- ☐ D produced
- ☐ E ameliorated
- ☐ F undermined

**Questions 11 and 12 are based on the passage below.**

Most literature is written such that the order of reading is unambiguous. Indeed, most Western prose is intended to be read from left to right and top to bottom. This is not the only system,

however; texts written in Arabic or Hebrew are read from right to left, and hieroglyphics, which can seem **involved** to modern eyes, were understood by ancient readers to be read vertically, down columns arranged from left to right. There exist, on the other hand, works of literature that require effort on the part of the reader to determine an appropriate order for reading the text on the page or even an appropriate order of the pages themselves. These works of ergodic literature (from the Greek *ergon*, meaning “work,” and *hodos*, meaning “path”) challenge the reader to be an active participant in experiencing the prose. The *I Ching*, for example, instructs the reader to pick random numbers and use them to look up passages to read. Mark Z. Danielewski’s *House of Leaves* is a modern illustration of ergodic literature. One chapter in which a group of characters traverses a maze is presented in a similarly labyrinthine manner: the reader must navigate text that winds back and forth, upside-down and right-side-up, and across and between pages to follow the episode.

Consider each of the choices separately and select all that apply.

11. Which of the following would the author of the passage most likely consider an example of ergodic literature?

- ☐ A Guillaume Apollinaire's *Calligrammes*, a book of poetry in which the text is arranged into complicated shapes and images that carry as much meaning as the text itself
- ☐ B James Joyce's *Finnegans Wake*, a novel written in a stream of consciousness style, which lacks a clear plot and includes a large number of made-up words
- ☐ C Marc Saporta's *Composition No. 1*, a work of literature presented as a box of 150 loose pages intended to be shuffled and read in a random order

12. In the context in which it appears, “involved” most nearly means

- ☐ A participatory
- ☐ B troubling
- ☐ C intelligible
- ☐ D archaic
- ☐ E complex

**Question 13 is based on the passage below.**

13. When people today recall Hannibal Barca, the Carthaginian general who lived from 247 to circa 181 BCE, they typically focus on the one fact that is commonly taught in history classes: during the Second Punic War against Rome, Hannibal

marched across the Alps with a team of war elephants, nearly all of which were lost due to the harsh conditions of the region. **Historians and students of history alike regard this decision as a blunder.** Of course, were this the only notable event in Hannibal's military career, it would be correct to look upon him with disfavor.

No one would disagree that Hannibal underestimated the number of souls that would be lost on the perilous march through France and incorrectly believed that the elephants would be hardier than they turned out to be for the trek. Nonetheless, it is abundantly clear from historical accounts that he was aware of the danger and planned well ahead of time to reinforce his numbers by using both his charisma and his military might to convince the Gauls and other tribes native to the Alpine foothills to join him in fighting the Romans, and was largely successful in doing so. **He was also a master tactician, able to take advantage of the diversity of his fighting forces, the local terrain, and the single-minded regimentation of the Roman forces to win skirmishes in which his own troops were vastly outnumbered.**

The two highlighted sentences play which of the following roles in the passage?

- Ⓐ The first states the main thesis of the passage; the second is a fact that seems at odds with this thesis.
- Ⓑ The first is a position that the author intends to refute; the second is a justification for this refutation.
- Ⓒ The first is a position the author regards as legitimate but incomplete; the second is support for the author's thesis.
- Ⓓ The first provides a reason for doubting the position maintained by the author; the second is the author's main conclusion.
- Ⓔ The first states an outside position that the author reluctantly concedes; the second is part of an explanation for this reluctance.

**Questions 14–16 are based on the passage below.**

The first recorded example of what we would recognize as organized religion was that of the Mesopotamians, a civilization located in what would become modern-day Iraq. The two rivers that defined the region, the Tigris and Euphrates, flooded violently and unpredictably. As a result, the Mesopotamians viewed their pantheon of gods as capricious and vengeful, and the citizens were thus burdened with carrying out what they believed to be the will of the gods and providing lavish offerings in order to keep the gods appeased and prevent disaster. Different circumstances existed in Egypt: The Egyptians lived along the Nile, a river that, prior to the completion of the Aswan High Dam in 1970, would flood gently every



four months, depositing silt that provided nutrients vital to agriculture in the region. The Egyptian people thus saw themselves as beloved by their gods and considered themselves the favored civilization, a bastion of order in an otherwise chaotic world.

14. The author is primarily concerned with

- (A) describing the origins of organized religion in two ancient civilizations
- (B) arguing that living along the Nile was far less stressful than living between the Tigris and the Euphrates
- (C) distinguishing between two civilizations by noting the ways in which individual gods in their pantheons represented different natural phenomena
- (D) persuading readers that modern religions reflect the geopolitical characteristics of their places of origin
- (E) contrasting the environmental features of two regions as an explanation of differences between their endemic religions

Consider each of the choices separately and select all that apply.

15. Based on the information in the passage, which of the following cultures could be reasonably expected to have religious beliefs similar to those of the Mesopotamians?

- ☐ A A coastal civilization that is hit by a typhoon during the first week of summer each year
- ☐ B A plains culture that endures tornadoes that can level structures without warning throughout the spring
- ☐ C A society that lives along a fault line and experiences random mild tremors

16. Select the sentence that best describes a reason for a civilization to view itself as favored by its gods.

**Questions 17–19 are based on the passage below.**

It is a scientific fact that water is among the few substances that expand when they freeze. This explains why ice floats in liquid water; because it is less dense than the water around it, the buoyant force pushes it to the surface. Larger differences in density create stronger buoyant forces. This fact also accounts for the observation that melting ice does not cause the level of the surface of the water in which it is floating to change. While some of the ice protrudes above the surface, melting causes the volume of what was the ice cube to decrease so that the newly melted water exactly fills the space that the frozen ice cube occupied under the surface.

There are those who would use these facts to declare that the melting of the polar ice caps would not contribute to sea level rise, but this is

an example of the saying that “a little knowledge is a dangerous thing.” First, the southern polar cap is not floating on the surface of the ocean, but rather is supported by the Antarctic land mass. As a result, the portions of this ice cap that are submerged displace far less ocean water than would be displaced by a floating cap. Additionally, the ocean water is salty while the ice caps are fresh. Consequently, ocean water is more dense than fresh water, which means that it generates larger buoyant forces and so can support a larger ice cap than fresh water would. For both of these reasons, melting of the polar ice caps would in fact cause nontrivial sea level rise.

17. Which of the following statements presents a situation most analogous to that described in the highlighted sentence?

- Ⓐ Receiving advance payment to write an original score for a musical, but failing to listen to the music from other contemporary productions in an effort to avoid being influenced by current trends in musical theater
- Ⓑ Obtaining an undergraduate degree in economics, but failing to use any of the principles taught by professors and instead relying upon instinct and intuition about human behavior to build a successful company
- Ⓒ Spending the time to learn a large number of programming languages in great detail, but failing to recognize that employers in a certain job market require use of only a single programming language
- Ⓓ Studying the Italian language well enough to pass a final exam in a college course, but failing to be fluent enough to converse with native speakers on a trip to Italy
- Ⓔ Being aware that hydrogen peroxide and vinegar are perfectly safe to handle on their own, but failing to understand that mixing them together creates peracetic acid, a highly caustic substance

Consider each of the choices separately and select all that apply.

18. Which of the following statements is supported by this passage?

- [A]        The solid state of most substances can be expected to sink when placed into the liquid state of the same substance.
- [B]        Hydrazine, a colorless liquid with a density less than that of water, can be expected to float when placed into liquid water.
- [C]        If the southern polar ice caps were not supported by a land mass, their melting would not cause rising sea levels.

19. The passage cites each of the following as contributing to a complete explanation for melting ice caps causing a rise in sea levels EXCEPT:

- (A)        a physical property of water that sets it apart from most other substances
- (B)        a geological feature that calls into question the applicability of a known scientific phenomenon in a specific instance
- (C)        a description of an event that provides context for the use of scientific principles in a specific case
- (D)        a difference between the phenomenon in question and another phenomenon that exaggerates the described effect
- (E)        a general property of liquids that is applicable to at least some of the specific instances of the phenomenon in question

**Question 20 is based on the passage below.**

20. The Arnolfini Portrait, painted by Dutch artist Jan van Eyck in 1434, depicts two richly dressed figures, a man and a woman, standing hand-in-hand in an upstairs room which most likely functioned as a place to receive visitors. A common interpretation of the painting is that it is meant to serve as a marriage contract of sorts. The artist's signature is both elaborate and central to the painting, appearing to be drawn on the wall behind the couple. The reflection in a mirror beneath the signature shows two additional figures just inside the door, one of whom is presumably van Eyck himself. It is argued that these two individuals constitute the two witnesses required to make a wedding legal, and that van Eyck's signature acts as a testament to this role. Additionally, the female subject appears pregnant, which many interpret as a sign that this is a marriage of necessity.

More recent and informed scholarship, on the other hand, questions the legitimacy of this analysis. An unmarried woman would have worn her hair down, while the female figure is wearing her hair up in a headdress. Furthermore, the female may not be pregnant after all, as female virgin saints were often depicted similarly, and her size may be a symbol of fertility rather than of pregnancy.

In this passage, the author is primarily concerned with

- Ⓐ describing the creation and details of a portrait
- Ⓑ condemning a critic's faulty reasoning in evaluating a painting
- Ⓒ presenting an alternative interpretation of a work of art
- Ⓓ demonstrating that an interpretation of an artwork may be incorrect
- Ⓔ discussing a depiction of historical marriage customs

YOU HAVE FINISHED THIS SECTION AND NOW WILL BEGIN THE  
NEXT SECTION.

# Quantitative Reasoning 1

35 Minutes — 20 Questions

## Directions

For each question, indicate the best answer, using the directions given.

You may use a calculator for all the questions in this section.

If a question has answer choices with ovals, then the correct answer is a single choice. If a question has answer choices with squares, then the correct answer consists of one or more answer choices. Read each question carefully.

## Important Facts:

All numbers used are real numbers.

All figures lie in a plane unless otherwise noted.

Geometric figures, such as lines, circles, triangles, and quadrilaterals, may or may not be drawn to scale. That is, you should not assume that quantities such as lengths and angle measures are as they appear in a drawing. But you can assume that lines shown as straight are indeed straight, points on a line



are in the order shown, and all geometric objects are in the relative positions shown. For questions involving drawn figures, base your answers on geometric reasoning rather than on estimation, measurement, or comparison by sight.

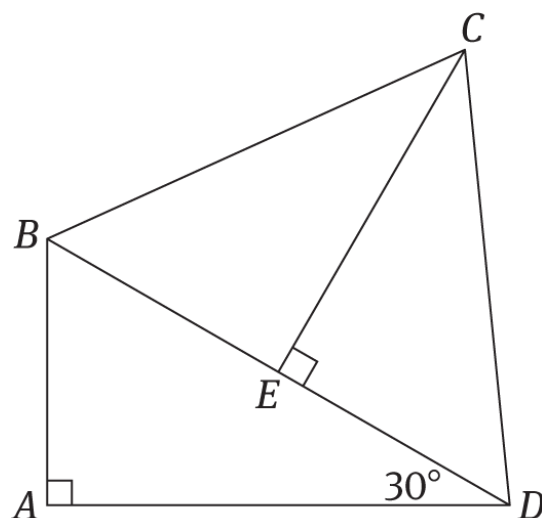
Coordinate systems, such as xy-planes and number lines, are drawn to scale. Therefore, you may read, estimate, and compare quantities in these figures by sight or by measurement.

Graphical data presentations, such as bar graphs, line graphs, and pie charts, are drawn to scale. Therefore, you may read, estimate, and compare data values by sight or by measurement.

## Directions

In questions 1–8, compare the value in Quantity A to the value in Quantity B. Information concerning one or both of the quantities to be compared is centered above the two quantities. Compare the two quantities and select A if Quantity A is greater, B if Quantity B is greater, C if the two quantities are equal, and D if the relationship cannot be determined from the information given.

1.



$\triangle BCD$  is an equilateral triangle and  $AB = 1$ .

Quantity A

The length of  $CE$

Quantity B

$\sqrt{2}$

(A)

Quantity A is greater.

(B)

Quantity B is greater.

(C)

The two quantities are equal.

(D)

The relationship cannot be determined from the information given.

2.

$$3a - 2b = 9$$

$$5a = 34 - 3b$$

Quantity A

$a$

Quantity B

$b$

- (A) Quantity A is greater.
- (B) Quantity B is greater.
- (C) The two quantities are equal.
- (D) The relationship cannot be determined from the information given.

3. A box contains only red, white, and blue marbles. Twenty percent of the marbles are blue. Of the remaining marbles, one-quarter are red.

Quantity A

Quantity B

The number of red marbles

One-third the number of white marbles

- (A) Quantity A is greater.
- (B) Quantity B is greater.
- (C) The two quantities are equal.
- (D) The relationship cannot be determined from the information given.

4.

Quantity A

Quantity B

$$(r + 3)(s + 2)$$

$$rs + 12$$

- (A) Quantity A is greater.
- (B) Quantity B is greater.
- (C) The two quantities are equal.
- (D) The relationship cannot be determined from the information given.

5.  $X = (86)(47)(94)(123)(64)(56)(72)$

Quantity A

Quantity B

The units digit of  $X$

5

- (A) Quantity A is greater.
- (B) Quantity B is greater.
- (C) The two quantities are equal.
- (D) The relationship cannot be determined from the information given.

6. Diego drinks 50% more coffee per year than Pablo does. Lilly drinks the same amount of coffee in the first half of each year as she does in the second, and she drinks twice as much coffee in one of these periods as Pablo does in a whole year.

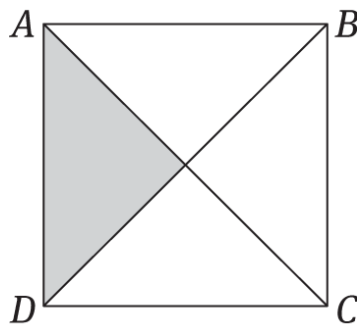
Quantity A

Quantity B

The amount of coffee Diego  
drinks in 5 years

The amount of coffee Lilly and Pablo  
combined drink in 2 years

- (A) Quantity A is greater.
- (B) Quantity B is greater.
- (C) The two quantities are equal.
- (D) The relationship cannot be determined from the information given.



7.

$ABCD$  is a square with a perimeter of 20 units.  $AC$  and  $BD$  are diagonals.

Quantity A

The length of side  $BC$  in  
units

Quantity B

The number of square units shaded in the  
figure

- (A) Quantity A is greater.
- (B) Quantity B is greater.
- (C) The two quantities are equal.
- (D) The relationship cannot be determined from the information given.

## Directions

The remaining questions have several different formats. Select one answer if the answer choice letters are inside ovals. If the answer choice letters are inside boxes, select all choices that apply. If there is a rectangular box, enter your response as a numerical value.

8.  $a$  and  $b$  are positive integers such that  $4 < a + b < 6$  and  $|a - b| = 1$

Quantity A

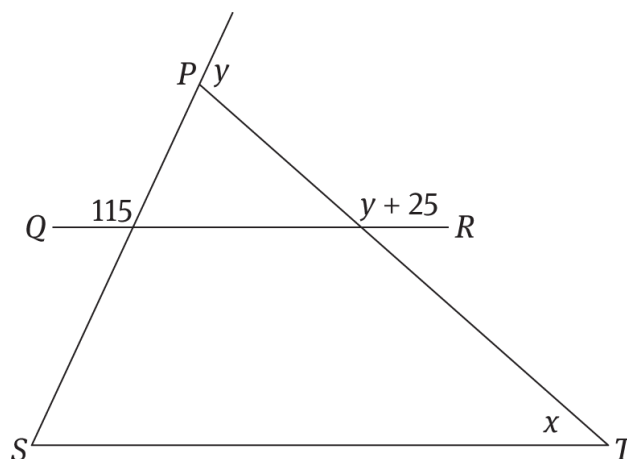
The volume of a cylinder with radius  $a$  and height  $b$

Quantity B

The volume of a cylinder with radius  $b$  and height  $a$

- (A) Quantity A is greater.
- (B) Quantity B is greater.
- (C) The two quantities are equal.
- (D) The relationship cannot be determined from the information given.

9.



In the figure above,  $QR$  is parallel to  $ST$ . What is the measure of angle  $x$ ?

- (A) 35
- (B) 45
- (C) 65
- (D) 70
- (E) 110

10. A particular natural history museum has three rooms where fossilized dinosaur skeletons are displayed. Nine dinosaur skeletons have recently been donated to the museum. If each room will have exactly one of these skeletons added to its exhibits, how many ways are there to arrange the new skeletons?

11. A film production company must submit 5 of its movies released this year for consideration for an awards ceremony. This year, the company released 14 movies; 8 of these were horror movies and 6 were romantic comedies. If it submits at least 3 romantic comedies, how many groups of 5 movies can be submitted?

- (A) 276
- (B) 432
- (C) 560
- (D) 681
- (E) 686

12. Last year, a coffee roasting company purchased new roasting machines to bring their total number of machines to 10. These 10 machines can roast 210 lbs of coffee beans in 3 hours. Before purchasing the new machines, the company could roast 84 lbs of beans in 2 hours. If all of the machines work at the same constant rate, how many machines did the company buy last year?

machines

13. Given a positive integer  $p$ , how many integers are greater than  $2p$  and less than  $4p - 1$ ?



(A)

$$\frac{1}{2}$$

(B)

$$p$$

(C)

$$p + 1$$

(D)

$$2p - 2$$

(E)

$$3p - 3$$

14. If  $a = bx$ ,  $1 < x < 4$ , and  $c = \frac{b}{3}$ , then  $\frac{r}{s}$  could be which of the following?

Indicate all possible choices.

[A]

$$1$$

[B]

$$3$$

[C]

$$5$$

[D]

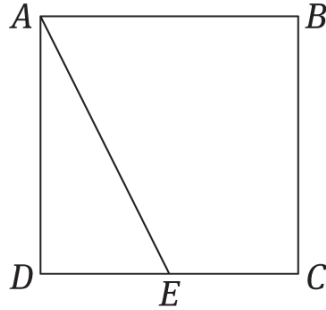
$$10$$

[E]

$$12$$

[F]

$$15$$



15.

In the figure above, the perimeter of square  $ABCD$  is 32 and the area of  $\triangle ADE$  is 12. What is the length of  $EC$ ?

16. Both  $x$  and  $y$  are positive integers. If  $x^2 + 2xy + y^2 = 49$  and  $x^2 - y^2 = -7$ , then  $y =$

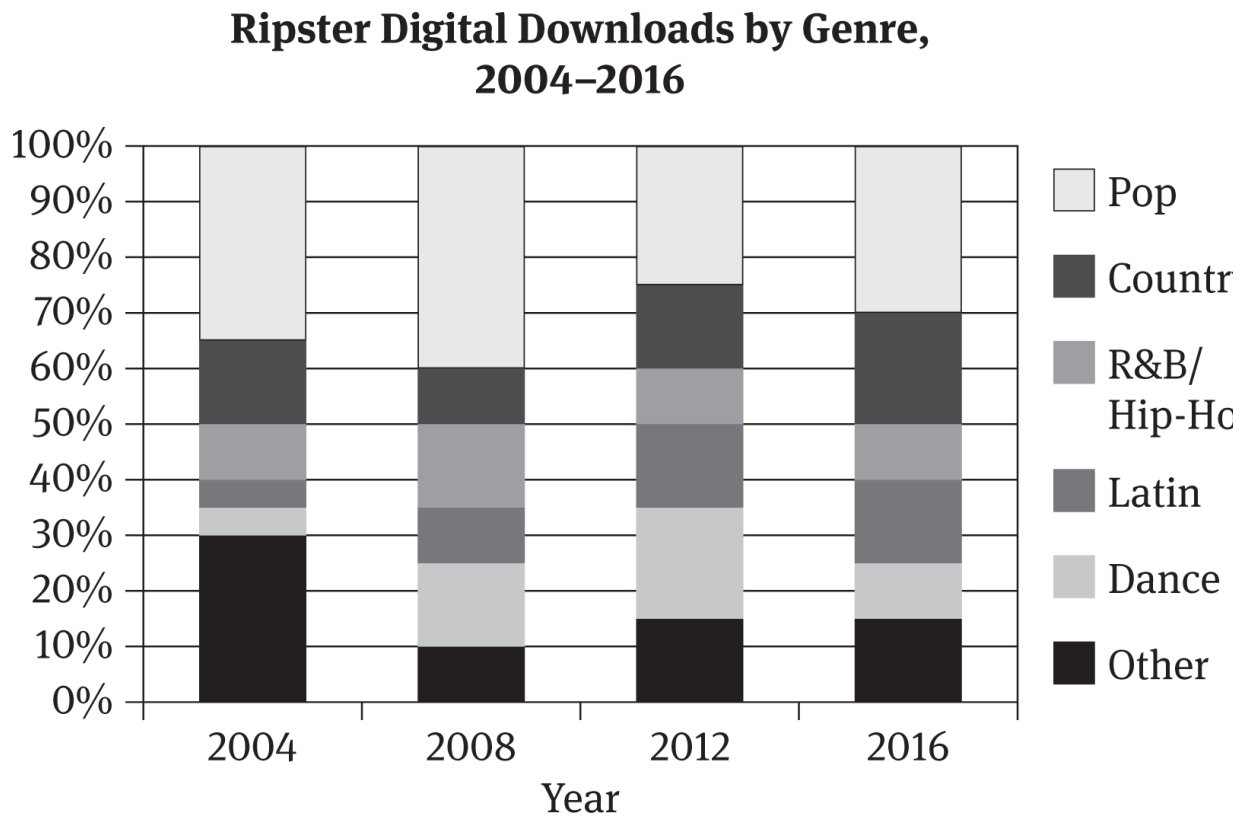
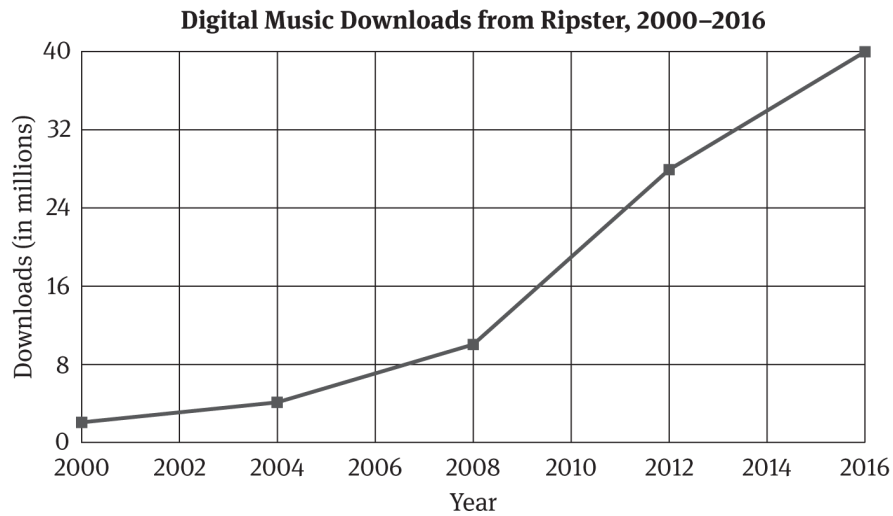
- (A) 2
- (B) 3
- (C) 4
- (D) 5
- (E) 7

17. If  $3 < x < 7$  and  $4 > y > -2$ , which of the following must be true?

Indicate all possible choices.

- ☐ A  $x - y > 0$
- ☐ B  $x + y > 0$
- ☐ C  $x > y$
- ☐ D  $2y - x > 0$
- ☐ E  $2x - y > 1$

**Questions 18–20 are based on the following graphs.**



**Ripster Digital Download Data**



18. During the year when the combined percent downloads of Latin and Dance exceeded Pop, what was the approximate

combined number of Latin and Dance downloads?

- (A) 0.5 million
- (B) 2.5 million
- (C) 8.5 million
- (D) 10 million
- (E) 12 million

19. By what percent did Pop downloads increase from 2008 to 2012?

- (A) 43%
- (B) 57%
- (C) 75%
- (D) 86%
- (E) 133%

20. In 2016, which of the following genres had between 6 million and 11 million downloads, inclusive?

Choose all that apply.

- ☐ A Pop
- ☐ B Country
- ☐ C R&B/Hip-Hop
- ☐ D Latin
- ☐ E Dance
- ☐ F Other

YOU HAVE FINISHED THIS SECTION AND NOW WILL BEGIN THE  
NEXT SECTION.

# Verbal Reasoning 2

30 Minutes — 20 Questions

## Directions

For each item, select the best answer choice using the directions given.

If a question has answer choices with ovals, then the correct answer will be a single choice. If a question's answer choices have squares, the correct answer may be more than one choice. Be sure to read all directions carefully.

For each blank, select an answer choice from the corresponding column of choices. Fill all blanks in such a way that they best complete the text.

1. As technology grows increasingly sophisticated and \_\_\_\_\_, parents should consider the potentially negative consequences of its constant use: a child who can retrieve the answer to any question merely by asking her digital assistant may lose her ability to think for herself.

- (A) feckless
- (B) unreliable
- (C) irksome
- (D) pervasive
- (E) repetitious

2. All languages evolve by (i) \_\_\_\_\_ new words, abandoning old words, and changing other words significantly. For this reason, it may seem as though modern English has little connection with the language of William Shakespeare, since most current speakers (ii) \_\_\_\_\_ archaic words such as “thou” and “bethink.” Nevertheless, modern English (iii) \_\_\_\_\_ phrases to Shakespeare, including “wild goose chase” and “forever and a day.”

<u>Blank (i).</u>	<u>Blank (ii).</u>	<u>Blank (iii).</u>
A auguring	D eschew	G owes many familiar
B embracing	E appropriate	
C obscuring	F mitigate	H portends several disconcerting
		I attributes few impeccable



3. Certain species of cephalopod, such as squid, octopus, and nautilus, found exclusively in marine environments, use a form of jet propulsion to move through the water as they search for prey and (i) \_\_\_\_\_ predators. Although animals have used this mechanism, which draws on the principles of Newton’s third law of physics, for thousands of years, humans did not (ii) \_\_\_\_\_ jet propulsion for transportation until the invention of the internal combustion engine, which made a somewhat inefficient method of locomotion (iii) \_\_\_\_\_ for many modern applications, including turbines and turbojets.

<u>Blank (i).</u>	<u>Blank (ii).</u>	<u>Blank (iii).</u>
A evade	D fortuitously	G commensurate
B bifurcate	analyze	H feasible
C dissemble	E effectively harness	I sporadic
	F rampantly augment	

4. Though seemingly axiomatic, the principle of “finders keepers” causes (i) \_\_\_\_\_ debate when applied to antiquities. Looters who prize a quick payoff above archaeological scholarship frequently raid graves and other ancient sites, seeking anything they can sell on the international market; this (ii) \_\_\_\_\_ the country’s claim

to ownership of its cultural treasures and destroys the historical record.

Blank (i).

Blank (ii).

A dispassionate	D stabilizes
B perfunctory	E flouts
C contentious	F demotes

5. Many avant-garde artists struggle to gain acceptance as (i) \_\_\_\_\_ work often produces confusion or even rage when it debuts. Even so, history holds numerous examples of works that (ii) \_\_\_\_\_ riots when they premiered but (iii) \_\_\_\_\_ enormous sums when sold.

Blank (i).

Blank (ii).

Blank (iii).

A complacent	D suppressed	G expended
B decorous	E engendered	H underscored
C provocative	F belied	I garnered

6. Philosophers have long debated the true meaning of love, and perhaps the diverse uses of the word have made its definition \_\_\_\_\_, but genuine love always arises from a mutual sense of understanding and respect—needs that are truly universal.

- (A) benign
- (B) nebulous
- (C) pernicious
- (D) seditious
- (E) specious

For the following questions, select the two answer choices that, when inserted into the sentence, fit the meaning of the sentence as a whole and yield complete sentences that are similar in meaning.

7. There are many conflicting studies regarding the health effects of caffeine; while many emphasize the unpleasant results of its consumption, others focus on its \_\_\_\_\_ properties.

- (A) addictive
- (B) lackadaisical
- (C) salubrious
- (D) adventitious
- (E) beneficent
- (F) innocuous

8. The critic maintained that the researcher's \_\_\_\_\_ was not in question but argued that her conclusion was not

sufficiently supported by the available evidence.

- ☐ A           discomfiture
- ☐ B           integrity
- ☐ C           egoism
- ☐ D           mortification
- ☐ E           rectitude
- ☐ F           ineptitude

9. Upon reading an incendiary article questioning the merits of his college in the local newspaper, the class president felt compelled to harangue the editor in a \_\_\_\_\_ that voiced his objections in the strongest possible terms.

- ☐ A           missive
- ☐ B           screed
- ☐ C           tome
- ☐ D           quandary
- ☐ E           diatribe
- ☐ F           hypothesis

10. Though all birds of prey share certain features, including excellent eyesight and sharp talons, which make these birds excellent hunters by equipping them to find and catch prey, some species display \_\_\_\_\_ characteristics, such as the high-speed dive of the peregrine falcon.

- ☐ A voracious
- ☐ B unique
- ☐ C fleeting
- ☐ D rapid
- ☐ E advantageous
- ☐ F distinctive

**Question 11 is based on the passage below.**

11. Some educators endorse the “look and say” method for teaching elementary school children how to read. This approach is also known as the “whole language method” because it trains students to recognize each word as a single entity. For this reason, it affords a degree of fluency with known words: when a student has memorized a word, she will be able to recognize and read it in future encounters. This method fails, however, to prepare students to decipher new words: a student who has not previously encountered and learned a word will not be able to read it and will therefore be limited to her range of known “word patterns.” Given the significant deficiency of this method, teachers should use a phonics-based approach, which trains students to decode or “sound out” words from the letters that comprise them. It offers a major advantage over the “look and say” method by allowing a student to read and understand words that she has not encountered in print before.

In the argument above, the two highlighted sentences play which of the following roles?

- (A) The first summarizes a position that the author opposes; the second supports the author's recommendation.
- (B) The first states the main point of the argument; the second provides evidence for that conclusion.
- (C) The first provides support for a position that the author ultimately rejects; the second serves as evidence for the author's recommendation.
- (D) The first supports the conclusion for the position with which the author disagrees; the second states the overall conclusion of the argument.
- (E) The first states the conclusion of the argument; the second provides support for that conclusion.

**Question 12 is based on the passage below.**

12. Realism in painting and sculpture often indicates an advanced degree of civilization. For example, the artists of ancient Greece produced their most famous and recognizable statues during the so-called "Golden Age," which marked the maturation of Greek culture after centuries of gradual advancement. The ancient Romans later adopted realistic forms in their art but failed to maintain them in the face of barbarian invasions and social disintegration. It took nearly a

millennium for Europeans to redevelop the skill of creating realistic painting and sculpture, the earliest post-Classical examples of which date to 13th-century Italy.

It can be inferred from the passage that which of the following is true about realistic painting and sculpture?

- (A) Societies with an advanced degree of civilization invariably reject unrealistic art forms in favor of realistic art forms.
- (B) The artists of ancient Egypt who embraced realism ushered in a new era of cultural advancement.
- (C) An advanced culture is more likely to produce realistic art than it is to produce any other type of art.
- (D) In some societies, realism in painting and sculpture can take decades, or even centuries, to develop.
- (E) Modern abstract art resulted from the deterioration of European and American culture after the end of the 19th century.

**Questions 13 and 14 are based on the passage below.**

The Battle of Trafalgar in 1805 was, perhaps, the most important British naval victory of the Napoleonic Wars. Before the battle, the people of England lived under constant threat of invasion by Napoleon's troops, but after the decisive victory of the British fleet

under Admiral Nelson, French naval forces were never again strong enough to invade. As the battle loomed, however, such a victory may not have seemed such a foregone conclusion to the British. Their fleet was outnumbered and outgunned by the combined French and Spanish fleet; indeed, one Spanish ship, the *Santísima Trinidad*, was the most heavily armed ship in the world at the time. Furthermore, Nelson took a risk by employing an unorthodox battle plan. By approaching the opposing line of battle head-on, the British ships would be open to enemy broadsides without being able to return fire. The risk paid off, and the British were victorious, capturing or destroying twenty-two enemy ships without losing a single ship of their own. There was one significant loss for the British, though. During the battle, a French marksman shot Admiral Nelson, who died three hours later; upon learning this, King George III is said to have exclaimed, “We have lost more than we have gained.”

Consider each of the choices separately and select all that apply.

13. Which of the following statements would the author of the passage likely agree with?

- ☐ A Acting contrary to conventional military wisdom may contribute to a victory in battle.
- ☐ B The loss of Admiral Nelson outweighed any strategic benefits gained by the British victory.
- ☐ C The British would have lost the Battle of Trafalgar had Admiral Nelson used more conventional tactics.



14. The author mentions the *Santísima Trinidad* in order to

- (A) suggest that it was the main target of Admiral Nelson's plan of attack
- (B) give an example of a common ship design of the era
- (C) show why the Spanish felt confident that they would be victorious
- (D) explain why Admiral Nelson thought that the British fleet would lose the battle
- (E) point out one difficulty the British fleet would need to overcome to win the battle

**Questions 15–20 are based on the passage below.**

Scandals involving authors of memoirs have raised questions about how much artistic license should be allowed in a purported work of nonfiction. By definition, nonfiction works are about facts and real events, but perception of real events can vary greatly depending on the point of view of the writer, especially an author recounting personal experience in the form of a memoir. Consideration of the reaction to two specific incidents involving narrative memoirs that were later proven to be largely, or wholly, untrue shows how much the repercussions can vary when the fallacies are revealed.

In 2008, writer Margaret Seltzer decided that the story of a mixed ethnicity, Native American foster child trying to survive the gang

culture of South Central Los Angeles was a story that needed to be told. Unfortunately, she chose to recount that story in the form of a memoir, adopting the pseudonym Margaret B. Jones so that she could not readily be identified, to tell the tale in her book *Love and Consequences*. When it was revealed, by her sister, that she was actually white and grew up in a wealthy suburb of Los Angeles, Seltzer claimed that her desire was to give voice to legitimate concerns that were going unheard. This claim, though, ran counter to the persona she adopted for radio interviews while promoting the memoir, during which she chose to use a vernacular and carry herself in a way that she thought would lend authenticity to her story. In doing so, she did a disservice to those whose experiences she had appropriated, and within a week she suffered the consequences: all copies of the book were recalled by the publisher, and Seltzer has not had any published works since that time.

Prior to Seltzer, author James Frey had also experienced the highs and lows of writing a successful memoir that was not completely based in fact. Before his tale of the dark depths of addiction and the winding road to recovery, *A Million Little Pieces*, landed him at the top of *The New York Times* best-seller list for fifteen weeks in 2005, Frey and his editor's notions of what should be considered a memoir were quite loose. Everything came tumbling down when Frey's book was exposed as containing a number of fabrications, and just as quickly as Frey rose to prominence, he became a media pariah. Frey claimed that he had never represented *A Million Little Pieces* as anything other than a memoir and that his embellishment of events was within the bounds of what is considered acceptable as a memoir

within the literary world. His time in the media spotlight tends to belie his claim, as it saw him embrace the fraudulent persona he had created for himself in his book. In recent years, the view of the publishing world and the media toward Frey has softened, and he later returned to the best-seller list with his fictional work, *Bright Shiny Morning*.

15. While discussing memoirs, the author specifically chooses to refer to Frey in order to

- (A) argue that the media's response to Frey was too harsh
- (B) present an example of an author who experienced literary success after a significant scandal
- (C) focus on one of the more obscure memoir hoaxes in modern history
- (D) point out the malicious intent when an author decides to lie in a memoir
- (E) highlight the permanent damage that comes from going beyond the accepted bounds of the memoir genre

16. The primary purpose of the passage is to

- Ⓐ criticize the consequences of the memoir genre being defined so loosely
- Ⓑ cast doubt on the effectiveness of the repercussions faced by Seltzer and Frey
- Ⓒ argue that both Seltzer and Frey were treated unfairly by the media
- Ⓓ discuss the consequences to authors when memoirs are proven to be false
- Ⓔ debate whether artistic license outweighs commitment to facts within the memoir genre

17. According to the passage, Seltzer's book can best be characterized as

- Ⓐ self-serving
- Ⓑ unpremeditated
- Ⓒ authentic
- Ⓓ spontaneous
- Ⓔ authoritative

18. It can reasonably be inferred from the author's recounting of what happened to Seltzer and Frey that

- Ⓐ they did not consciously seek to deceive their readers
- Ⓑ both authors were at least partially responsible for the negative consequences that they faced
- Ⓒ neither author ever experienced positive press after releasing their respective memoirs
- Ⓓ authors in the memoir genre are more prone to deception than authors in other genres
- Ⓔ they valued long-term financial success over journalistic integrity

19. According to the passage, Seltzer took all of the following steps to lend to the credibility of her memoir EXCEPT:

- Ⓐ adopting a persona for her on-air interviews
- Ⓑ setting the memoir in South Central Los Angeles
- Ⓒ eliciting her family's cooperation
- Ⓓ using the pseudonym Margaret B. Jones
- Ⓔ changing the way she spoke during interview

20. In the author's opinion, one major difference between the experiences of Seltzer and Frey is that

- Ⓐ Seltzer lied with good intentions, while Frey lied purely for financial gain
- Ⓑ Seltzer's bad press was less damaging than Frey's bad press
- Ⓒ Seltzer deserved to never have another work published and Frey deserved his later success
- Ⓓ Seltzer's family sought to damage her career, but Frey's family was very supportive
- Ⓔ Seltzer's fabrication was quickly discovered and penalized, while Frey's fabrications took longer to be addressed

YOU HAVE FINISHED THIS SECTION AND NOW WILL BEGIN THE NEXT SECTION.

# Quantitative Reasoning 2

35 Minutes — 20 Questions

## Directions

For each question, indicate the best answer, using the directions given.

You may use a calculator for all the questions in this section.

If a question has answer choices with ovals, then the correct answer is a single choice.

If a question has answer choices with squares, then the correct answer consists of one or more answer choices. Read each question carefully.

## Important Facts:

All numbers used are real numbers.

All figures lie in a plane unless otherwise noted.

Geometric figures, such as lines, circles, triangles, and quadrilaterals, may or may not be drawn to scale. That is, you should not assume that quantities such as lengths and angle measures are as they appear in a drawing. But you can assume that lines shown as straight are indeed straight, points on a line are in the order shown, and all geometric objects are in the relative positions shown. For questions involving drawn figures, base your answers on geometric reasoning, rather than on estimation, measurement, or comparison by sight.

Coordinate systems, such as  $xy$ -planes and number lines, are drawn to scale. Therefore, you may read, estimate, and compare quantities in these figures by sight or by measurement.

Graphical data presentations, such as bar graphs, line graphs, and pie charts, are drawn to scale. Therefore, you may read, estimate, and compare data values by sight or by measurement.

## Directions

In questions 1–8, compare the value in Quantity A to the value in Quantity B. Information concerning one or both of the quantities to be compared is centered above the two quantities. Compare the two quantities and select A if Quantity A is greater, B if Quantity B is greater, C if the two quantities are equal, and D if the relationship cannot be determined from the information given.

1. The perimeter of isosceles  $\triangle ABC$  is 32, and the length of one side is 10. The height, measured from the vertex where the two equal sides meet, is 8.

Quantity A

The length of the longest side of  $\triangle ABC$

Quantity B

12

- (A) Quantity A is greater.  
(B) Quantity B is greater.  
(C) The two quantities are equal.  
(D) The relationship cannot be determined from the information given.

2.

$$g(z) = \frac{1}{(z-1)^2}$$

$$z \neq 1$$

Quantity A

$$g\left(\frac{1}{3}\right)$$

Quantity B

2

- (A) Quantity A is greater.  
(B) Quantity B is greater.  
(C) The two quantities are equal.  
(D) The relationship cannot be determined from the information given.



3. Cities A and B are 400 miles apart. Eugene can travel from A to B by plane at an average speed of 300 miles per hour or by train at an average speed of 60 miles per hour.

<u>Quantity A</u>	<u>Quantity B</u>
The number of minutes later Eugene could leave A traveling by plane and arrive at B at the same time that he would have arrived if he had traveled by train	330 minutes

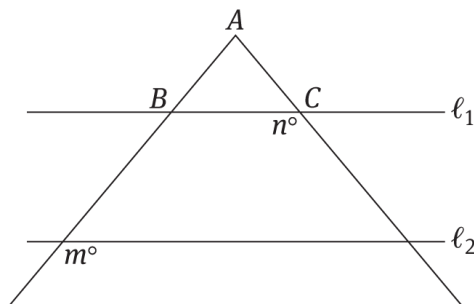
- (A) Quantity A is greater.  
 (B) Quantity B is greater.  
 (C) The two quantities are equal.  
 (D) The relationship cannot be determined from the information given.

4. In 2015, Navid's annual salary increased from \$50,000 to \$60,000. In 2017, his annual salary increased from \$60,000 to \$70,800.

<u>Quantity A</u>	<u>Quantity B</u>
The percent increase in Navid's salary in 2015	The percent increase in Navid's salary in 2017

- (A) Quantity A is greater.  
 (B) Quantity B is greater.  
 (C) The two quantities are equal.  
 (D) The relationship cannot be determined from the information given.

5.



In the above figure,  $\ell_1$  and  $\ell_2$  are parallel.  $m = 150$  and  $n = 120$ .

Quantity A

Quantity B

The length of  $AB$

The length of  $AC$

- (A) Quantity A is greater.
- (B) Quantity B is greater.
- (C) The two quantities are equal.
- (D) The relationship cannot be determined from the information given

6.



$3y - z = 8$  and the length of  $RT$  is 4.

Quantity A

Quantity B

The length of segment  $RS$

2.5

- (A) Quantity A is greater.
- (B) Quantity B is greater.
- (C) The two quantities are equal.
- (D) The relationship cannot be determined from the information given.

7.

$$x + y < z$$

Quantity A

Quantity B

$$2x - z$$

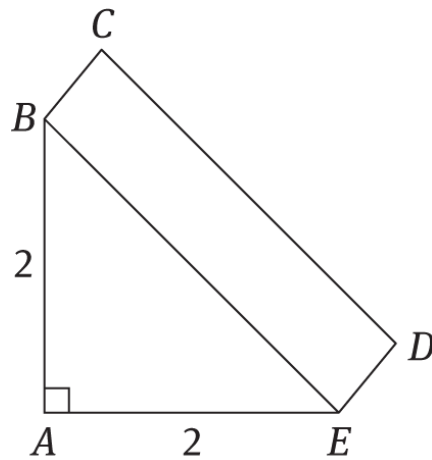
$$-y$$

- (A) Quantity A is greater.
- (B) Quantity B is greater.
- (C) The two quantities are equal.
- (D) The relationship cannot be determined from the information given.

## Directions

The remaining questions have several different formats. Select one answer if the answer choice letters are inside ovals. If the answer choice letters are inside boxes, select all choices that apply. If there is a rectangular box, enter your response as a numerical value.

8.



The area of  $\triangle ABE$  = the area of rectangle  $BCDE$

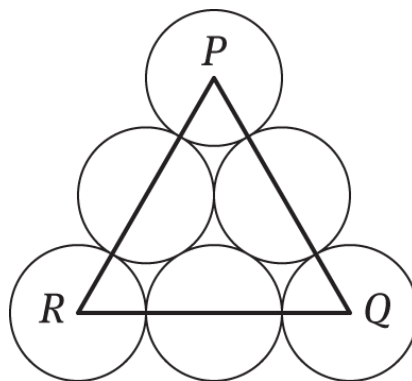
Quantity A

The ratio of side  $BE$  to side  $DE$

Quantity B

4:1

- (A) Quantity A is greater.
- (B) Quantity B is greater.
- (C) The two quantities are equal.
- (D) The relationship cannot be determined from the information given.



9.

The sides of triangle  $PQR$  touch or pass through the center points of each of the six circles. Each of the circles has the same circumference of  $8\pi$ . What is the perimeter of triangle  $PQR$ ?

- (A) 16
- (B) 36
- (C) 48
- (D) 56
- (E) 72

10. If  $\frac{14}{6^{-2}} \times 45 = 2^x \times 3^4 \times 35$ , what is the value of  $x$ ?

- (A) -2
- (B) 1
- (C) 2
- (D) 3
- (E) 4

11. If  $\frac{1}{a} + \frac{1}{b} + \frac{1}{c} = \frac{1}{T}$  and neither  $w$  nor  $z$  is equal to zero, then  $\frac{w}{z} =$

(A)  $-\frac{5}{12}$

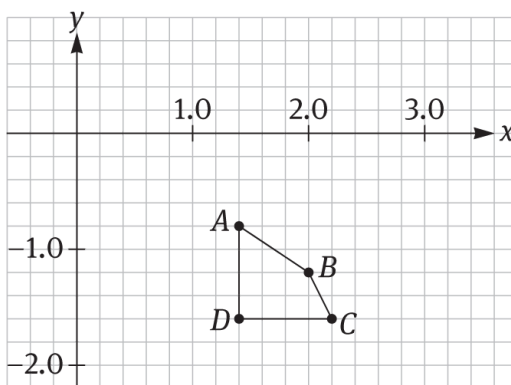
(B)  $-\frac{5}{17}$

(C)  $\frac{16}{20}$

(D)  $\frac{16}{20}$

(E)  $\frac{16}{20}$

12.



What is the area of the figure above determined by points  $A$ ,  $B$ ,  $C$ , and  $D$ ?

square units

13. Which of the following is 40% less than  $1.25 \times 10^4$ ?

(A)  $7.5 \times 10^2$

(B)  $5.0 \times 10^3$

(C)  $7.5 \times 10^3$

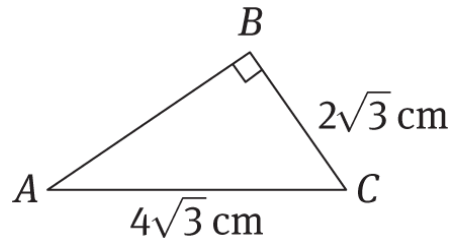
(D)  $1.0 \times 10^4$

(E)  $1.75 \times 10^4$

14. Which of the following is divisible by an odd number of different positive integers?

Indicate all possible numbers.

- ☐ A 9
- ☐ B 17
- ☐ C 24
- ☐ D 36
- ☐ E 42



15.

What is the length of a line segment drawn from point  $B$  to a point on side  $AC$  such that the line segment is perpendicular to side  $AC$ ?

centimeters

16. If the average of three numbers is  $5a - 2$  and the average of two of the numbers is  $4a + 2b + 1$ , which of the following is the other number in terms of  $a$  and  $b$ ?

- ☐ A  $a - 2b - 3$
- ☐ B  $5a + 2b + 3$
- ☐ C  $7a - 4b - 8$
- ☐ D  $9a + 2b - 1$
- ☐ E  $11a - 2b - 5$

17. Which points lie on the graph of  $y = \frac{3x^2+2}{x-1}$ ?

Indicate all possible choices.

☐ A  $(-5, -13)$

☐ B  $(-4, -10)$

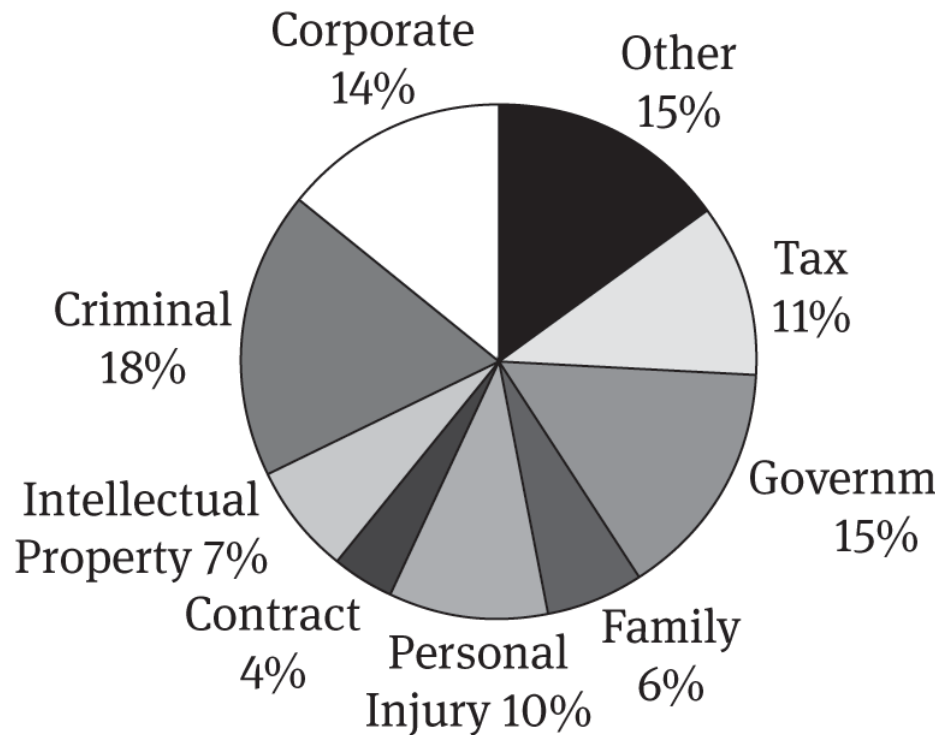
☐ C  $(0, 2)$

☐ D  $\left(3, 14\frac{1}{2}\right)$

☐ E  $\left(3, 14\frac{1}{2}\right)$

**Questions 18–20 refer to the chart below.**

## Members of a National Legal Association by Practice Area, 2015



18. If 20,000 members of the national legal association were family law attorneys in 2015, how many members were criminal law attorneys?

- (A) 6,500
- (B) 12,000
- (C) 22,400
- (D) 40,000
- (E) 60,000

19. In the same national legal association in 2016, criminal law attorneys still represented 18% of all lawyers, but there were 4,500 fewer criminal law attorneys in 2016 than there were in 2015. If there were 28,000 corporate law members in 2015, how many total members did the legal association have in 2016?



- (A) 160,000
- (B) 175,000
- (C) 180,000
- (D) 200,000
- (E) 220,000

20. Assuming that the number of personal injury lawyers stays constant from 2015 to 2016, by approximately what percent would the number of intellectual property lawyers have to increase from 2015 to 2016 to reach the number of personal injury lawyers?

- (A) 3%
- (B) 7%
- (C) 10%
- (D) 30%
- (E) 43%