

## Introductory PrepTutorial

### Sample GMAT Questions

What follows are GMAT questions to be used in an introductory tutorial to make you familiar with both GMAT question types and the idea of multiple approaches to the identification of their answers. These questions are necessary in order to use the Focussed Beginnings Tutorial on our site. As part of your course confirmation you will have received the appropriate URL. The questions are formatted with one and only question to each page. If at all possible, please try to go through this tutorial prior to attending our course.

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The sample questions that follow will familiarize you with the types of questions in the test. Although the sample questions represent the general nature of the test, it is possible that a type of question not illustrated may appear in the test or that material illustrated may not appear. Directions are similar to those in the test. On the GMAT CAT, you will not see lettered answer choices. Rather you will just click on an answer.

## Multiple-Choice Questions

### READING COMPREHENSION

The questions in this group are based on the content of a passage. After reading the passage, choose the best answer to each question. Answer all questions following the passage on the basis of what is stated or implied in the passage. One sample reading passage follows.

#### SAMPLE PASSAGE

Studies of the Weddell seal in the laboratory have described the physiological mechanisms that allow the seal to cope with the extreme oxygen deprivation that occurs during its longest dives, which can extend 500 meters below the ocean's surface and last for over 70 minutes. Recent field studies, however, suggest that during more typical dives in the wild, this seal's physiological behavior is different.

In the laboratory, when the seal dives below the surface of the water and stops breathing, its heart beats more slowly, requiring less oxygen, and its arteries become constricted, ensuring that the seal's blood remains concentrated near those organs most crucial to its ability to navigate underwater. The seal essentially shuts off the flow of blood to other organs, which either stop functioning until the seal surfaces or switch to an anaerobic (oxygen-independent) metabolism. The latter results in the production of large amounts of lactic acid which can adversely affect the pH of the seal's blood, but since the anaerobic metabolism occurs only in those tissues which have been isolated from the seal's blood supply, the lactic acid is released into the seal's blood only after the seal surfaces, when the lungs, liver, and other organs quickly clear the acid from the seal's bloodstream.

Recent field studies, however, reveal that on dives in the wild, the seal usually heads directly for its prey and returns to the surface in less than twenty minutes. The absence of high levels of lactic acid in the seal's blood after such dives suggests that during them, the seal's organs do not resort to the anaerobic metabolism observed in the laboratory, but are supplied with oxygen from the blood. The seal's longer excursions underwater, during which it appears to be either exploring distant routes or evading a predator, do evoke the diving response seen in the laboratory. But why do the seal's laboratory dives always evoke this response, regardless of their length or depth? Some biologists speculate that because in laboratory dives the seal is forcibly submerged, it does not know how long it will remain underwater and so prepares for the worst.

## SAMPLE QUESTIONS

1. The passage provides information to support which of the following generalizations?

(A) Observations of animals' physiological behavior in the wild are not reliable unless verified by laboratory studies.

(B) It is generally less difficult to observe the physiological behavior of an animal in the wild than in the laboratory.

(C) The level of lactic acid in an animal's blood is likely to be higher when it is searching for prey than when it is evading predators.

(D) The level of lactic acid in an animal's blood is likely to be lowest during those periods in which it experiences oxygen deprivation.

(E) The physiological behavior of animals in a laboratory setting is not always consistent with their physiological behavior in the wild.

**Note: The original passage is on page 2 of this document.**

2. It can be inferred from the passage that by describing the Weddell seal as preparing "for the worst" (lines 36-37), biologists mean that it

(A) prepares to remain underwater for no longer than twenty minutes

(B) exhibits physiological behavior similar to that which characterizes dives in which it heads directly for its prey

(C) exhibits physiological behavior similar to that which characterizes its longest dives in the wild

(D) begins to exhibit predatory behavior

(E) clears the lactic acid from its blood before attempting to dive

**Note: The original passage is on page 2 of this document.**

3. The passage suggests that during laboratory dives, the pH of the Weddell seal's blood is not adversely affected by the production of lactic acid because

(A) only those organs that are essential to the seal's ability to navigate underwater revert to an anaerobic mechanism

(B) the seal typically reverts to an anaerobic metabolism only at the very end of the dive

(C) organs that revert to an anaerobic metabolism are temporarily isolated from the seal's bloodstream

(D) oxygen continues to be supplied to organs that clear lactic acid from the seal's bloodstream

(E) the seal remains submerged for only short periods of time

**Note: The original passage is on page 2 of this document.**

4. Which of the following best summarizes the main point of the passage?

(A) Recent field studies have indicated that descriptions of the physiological behavior of the Weddell seal during laboratory dives are not applicable to its most typical dives in the wild.

(B) The Weddell seal has developed a number of unique mechanisms that enable it to remain submerged at depths of up to 500 meters for up to 70 minutes.

(C) The results of recent field studies have made it necessary for biologists to revise previous perceptions of how the Weddell seal behaves physiologically during its longest dives in the wild.

(D) Biologists speculate that laboratory studies of the physiological behavior of seals during dives lasting more than twenty minutes would be more accurate if the seals were not forcibly submerged.

(E) How the Weddell seal responds to oxygen deprivation during its longest dives appears to depend on whether the seal is searching for prey or avoiding predators during such dives.

**Note: The original passage is on page 2 of this document.**

5. According to the author, which of the following is true of the laboratory studies mentioned in line 1?

(A) They fail to explain how the seal is able to tolerate the increased production of lactic acid by organs that revert to an anaerobic metabolism during its longest dives in the wild.

(B) They present an oversimplified account of mechanisms that the Weddell seal relies on during its longest dives in the wild.

(C) They provide evidence that undermines the view that the Weddell seal relies on an anaerobic metabolism during its most typical dives in the wild.

(D) They are based on the assumption that Weddell seals rarely spend more than twenty minutes underwater on a typical dive in the wild.

(E) They provide an accurate account of the physiological behavior of Weddell seals during those dives in the wild in which they are either evading predators or exploring distant routes.

**Note: The original passage is on page 2 of this document.**

6. The passage suggests that because Weddell seals are forcibly submerged during laboratory dives, they do which of the following?

(A) Exhibit the physiological responses that are characteristic of dives in the wild that last less than twenty minutes.

(B) Exhibit the physiological responses that are characteristic of the longer dives they undertake in the wild.

(C) Cope with oxygen deprivation less effectively than they do on typical dives in the wild.

(D) Produce smaller amounts of lactic acid than they do on typical dives in the wild.

(E) Navigate less effectively than they do on typical dives in the wild.

**Note: The original passage is on page 2 of this document.**

## CRITICAL REASONING

For this question, select the best of the answer choices given.

7. There are fundamentally two possible changes in an economy that will each cause inflation unless other compensating changes also occur. These changes are either reductions in the supply of goods and services or increases in demand. In a prebanking economy the quantity of money available, and hence the level of demand, is equivalent to the quantity of gold available.

If the statements above are true, then it is also true that in a prebanking economy

(A) any inflation is the result of reductions in the supply of goods and services

(B) if other factors in the economy are unchanged, increasing the quantity of gold available will lead to inflation

(C) if there is a reduction in the quantity of gold available, then, other things being equal, inflation must result

(D) the quantity of goods and services purchasable by a given amount of gold is constant

(E) whatever changes in demand occur, there will be compensating changes in the supply of goods and services

8. Which of the following best completes the argument below?

One effect of the introduction of the electric refrigerator was a collapse in the market for ice. Formerly householders had bought ice to keep their iceboxes cool and the food stored in the iceboxes fresh. Now the iceboxes cool themselves. Similarly, the introduction of crops genetically engineered to be resistant to pests will -----.

- (A) increase the size of crop harvests
- (B) increase the cost of seeds
- (B) reduce demand for chemical pesticides
- (D) reduce the value of farmland
- (E) reduce the number of farmers keeping livestock

9. Since 1975 there has been in the United States a dramatic decline in the incidence of traditional childhood diseases such as measles. This decline has been accompanied by an increased incidence of Peterson 's disease, a hitherto rare viral infection, among children. Few adults, however, have been affected by the disease.

Which of the following, if true, would best help to explain the increased incidence of Peterson 's disease among children?

(A) Hereditary factors determine in part the degree to which a person is susceptible to the virus that causes Peterson 's disease.

(B) The decrease in traditional childhood diseases and the accompanying increase in Peterson 's disease have not been found in any other country.

(C) Children who contract measles develop an immunity to the virus that causes Peterson 's disease.

(D) Persons who did not contract measles in childhood might contract measles in adulthood, in which case the consequences of the disease would generally be more severe.

(E) Those who have contracted Peterson 's disease are at increased risk of contracting chicken pox.

Questions 10-11 are based on the following.

An annually conducted, nationwide survey shows a continuing marked decline in the use of illegal drugs by high school seniors over the last three years.

10. Which of the following, if true, casts most doubt on the relevance of the survey results described above for drawing conclusions about illegal drug use in the teen-age population as a whole?

(A) Because of cuts in funding, no survey of illegal drug use by high school seniors will be conducted next year.

(B) The decline uncovered in the survey has occurred despite the decreasing cost of illegal drugs.

(C) Illegal drug use by teen-agers is highest in those areas of the country where teen-agers are least likely to stay in high school for their senior year.

(D) Survey participants are more likely now than they were three years ago to describe as "heroic " people who were addicted to illegal drugs and have been able to quit.

(E) The proportion of high school seniors who say that they strongly disapprove of illegal drug use has declined over the last three years.

An annually conducted, nationwide survey shows a continuing marked decline in the use of illegal drugs by high school seniors over the last three years.

11. Which of the following, if true, would provide most support for concluding from the survey results described above that the use of illegal drugs by people below the age of 20 is declining?

(A) Changes in the level of drug use by high school seniors are seldom matched by changes in the level of drug use by other people below the age of 20.

(B) In the past, high school seniors were consistently the population group most likely to use illegal drugs and most likely to use them heavily.

(C) The percentage of high school seniors who use illegal drugs is consistently very similar to the percentage of all people below the age of 20 who use illegal drugs.

(D) The decline revealed by the surveys is the result of drug education programs specifically targeted at those below the age of 20.

(E) The number of those surveyed who admit to having sold illegal drugs has declined even faster than has the number who have used drugs.

12. In elections in the United States, the proper role of the press is to cover only those factors in the campaign which bear on the eventual outcome. Since the outcome is invariably a victory for the candidate of one of the two major parties, the press should not cover the campaigns of candidates of minor parties.

The argument above relies on which of the following assumptions?

(A) The press has an obligation to cover the candidates of the two major parties because these candidates are likely to be better known to the public than are candidates of minor parties.

(B) It is unlikely that there will be more than three candidates in any given race.

(C) Many eligible voters do not bother to vote, and of those who do not vote, some would probably have supported a candidate of a minor party.

(D) The number of votes cast for a candidate of a minor party is not likely to affect the outcome of the contest between the candidates of the two major parties.

(E) Supporters of candidates of minor parties are less likely to be influenced by the press than are supporters of candidates of the two major parties.

## DATA SUFFICIENCY

This data sufficiency problem consists of a question and two statements, labeled (1) and (2), in which certain data are given. You have to decide whether the data given in the statements are sufficient for answering the question. Using the data given in the statements plus your knowledge of mathematics and everyday facts (such as the number of days in July or the meaning of counterclockwise), you must indicate whether statement (1) ALONE is sufficient, but statement (2) alone is not sufficient to answer the question asked; statement (2) ALONE is sufficient, but statement (1) alone is not sufficient to answer the question asked; BOTH statements (1) and (2) TOGETHER are sufficient to answer the question asked, but NEITHER statement ALONE is sufficient; EACH statement ALONE is sufficient to answer the question asked; statements (1) and (2) TOGETHER are NOT sufficient to answer the question asked, and additional data specific to the problem are needed.

Numbers: All numbers used are real numbers.

Figures: A figure accompanying a data sufficiency problem will conform to the information given in the question, but will not necessarily conform to the additional information given in statements (1) and (2).

Lines shown as straight can be assumed to be straight and lines that appear jagged can also be assumed to be straight.

You may assume that the positions of points, angles, regions, etc., exist in the order shown and that angle measures are greater than zero.

All figures lie in a plane unless otherwise indicated.

Note: In data sufficiency problems that ask for the value of a quantity, the data given in the statements are sufficient only when it is possible to determine exactly one numerical value for the quantity.

The lettered answer choices that follow are for your convenience in answering the questions.

- (A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.
- (B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.
- (C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- (D) EACH statement ALONE is sufficient.
- (E) Statements (1) and (2) TOGETHER are NOT sufficient.

13. What was the gross income of Corporation C for year X?

- (1) For year Y the gross income of Corporation C was \$8,300,000.
- (2) The gross income of Corporation C for year X represented a 5 percent increase over the gross income for year Y

The lettered answer choices that follow are for your convenience in answering the questions.

- (A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.
- (B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.
- (C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- (D) EACH statement ALONE is sufficient.
- (E) Statements (1) and (2) TOGETHER are NOT sufficient.

14. If  $x$  is a positive number, what is the value of  $x$  ?

- (1)  $|x - 2| = 1$
- (2)  $x^2 = 4x - 3$

The lettered answer choices that follow are for your convenience in answering the questions.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(D) EACH statement ALONE is sufficient.

(E) Statements (1) and (2) TOGETHER are NOT sufficient.

15. During the first year after a homeowner had installed a solar-powered attic fan, the cost of air-conditioning her home was  $x$  dollars less than it was the previous year. What was the value of  $x$ ?

(1) The total cost of purchasing and installing the fan was \$350.

(2) During the first year after the fan was installed, the home-owner's cost for air-conditioning was reduced by 24 percent of the previous year's cost

The lettered answer choices that follow are for your convenience in answering the questions.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(D) EACH statement ALONE is sufficient.

(E) Statements (1) and (2) TOGETHER are NOT sufficient.

16. Are the integers  $p$ ,  $q$ , and  $r$  consecutive integers?

(1) The sum of  $p$ ,  $q$ , and  $r$  is 15.

(2)  $r$  is 1 greater than  $q$  and  $q$  is 1 greater than  $p$

The lettered answer choices that follow are for your convenience in answering the questions.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(D) EACH statement ALONE is sufficient.

(E) Statements (1) and (2) TOGETHER are NOT sufficient.

17. A wire 22 meters long is cut into three pieces. How long is the longest piece?

(1) Two pieces are each 1 meter shorter than the longest piece.

(2) One piece is 7 meters long.

The lettered answer choices that follow are for your convenience in answering the questions.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(D) EACH statement ALONE is sufficient.

(E) Statements (1) and (2) TOGETHER are NOT sufficient.

18. What is the ratio of the area of circular region A to the area of circular region B ?

(1) The ratio of the circumference of A to the circumference of B is 3 to 1.

(2) The radius of A is 9 centimeters and the circumference of B is  $6\pi$  centimeters.

The lettered answer choices that follow are for your convenience in answering the questions.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(D) EACH statement ALONE is sufficient.

(E) Statements (1) and (2) TOGETHER are NOT sufficient.

19. If  $t$  and  $r$  are positive integers and  $r$  is a divisor of  $t$  is  $r$  a prime number?

(1)  $5r = t$

(2) The smallest divisor of  $t$  that is greater than 1 is  $r$

## PROBLEM SOLVING

Solve the problem and indicate the best of the answer choices given.

Numbers: All numbers used are real numbers.

Figures: A figure accompanying a problem solving question is intended to provide information useful in solving the problem. Figures are drawn as accurately as possible EXCEPT when it is stated in a specific problem that its figure is not drawn to scale. Straight lines may sometimes appear jagged. All figures lie in a plane unless otherwise indicated.

20. An earth science class had a 50-minute laboratory period during which 5 minutes were spent in distributing and collecting material and 10 minutes were spent in discussing the project for the day. If the remaining time was spent in work on the project, what percent of the period was devoted to work on the project?

(A) 80% (B) 75% (C) 70% (D) 60% (E) 50%

21. On the number line, what is the number that is .25 of the distance from 5.1 to 5.3 ?

- (A) 5.125 (B) 5.15 (C) 5.2 (D) 5.25 (E) 5.35

22. One-third of the rooms in the Chateau Hotel have a harbor view, and the rate for each of these is 1.2 times the rate for each of the remaining 180 rooms. If the rate for the rooms without a harbor view is  $d$  dollars per day, what is the hotel's maximum income, in dollars, from room rentals for one day?

- (A)  $204d$  (B)  $234d$  (C)  $240d$  (D)  $270d$  (E)  $288d$

23. If  $\frac{1}{x} - x = \frac{3}{2}$  and  $x > 0$ , then  $x =$

(A)  $\frac{1}{2}$  (B) 1 (C)  $\frac{3}{2}$  (D) 2 (E)  $\frac{5}{2}$

24. If the volume of cube X is 8 cubic meters, what is its total surface area in square meters?

- (A) 8 (B) 16 (C) 24 (D) 48 (E) 64

25. If all of the telephone extensions in a certain company must be even numbers, and if each of the extensions uses all four of the digits 1,2,3,and 6,what is the greatest number of four-digit extensions that the company can have?

- (A) 4 (B) 6 (C) 12 (D) 16 (E) 24

26. A car traveled 462 miles per tankful of gasoline on the highway and 336 miles per tankful of gasoline in the city. If the car traveled 6 fewer miles per gallon in the city than on the highway, how many miles per gallon did the car travel in the city?

- (A) 1 (B) 16 (C) 21 (D) 22 (E) 27

## SENTENCE CORRECTION

This question presents a sentence, part of which or all of which is underlined. Beneath the sentence you will find five ways of phrasing the underlined part. The first of these repeats the original; the other four are different. If you think the original is best, choose the first answer; otherwise choose one of the others.

This question tests correctness and effectiveness of expression. In choosing your answer, follow the requirements of standard written English; that is, pay attention to grammar, choice of words, and sentence construction. Choose the answer that produces the most effective sentence; this answer should be clear and exact, without awkwardness, ambiguity, redundancy, or grammatical error.

27. As farmland has continued to erode, farmers have applied more fertilizer both so that eroded topsoil will be substituted for and fertility should be enhanced.

- (A) so that eroded topsoil will be substituted for and fertility should be enhanced
- (B) to substitute for eroded topsoil and to enhance fertility
- (C) that eroded topsoil might be substituted for and fertility enhanced
- (D) so as to substitute for eroded topsoil and fertility will be enhanced
- (E) to substitute for eroded topsoil and that fertility might be enhanced

28. As researchers continue to probe the highly expressive vocal and postural language of wolves, their close resemblance to dogs has become ever more striking.

(A) their close resemblance to dogs has become

(B) the closeness of their resemblance to dogs has become

(C) the close resemblance between them and dogs has become

(D) the close resemblance between wolves and dogs becomes

(E) the close resemblance of wolves with dogs becomes

29. As the British criminologist Radzinowicz maintains, the harsher the penalties formally required by statute, judges and juries are less willing to impose them.

(A) judges and juries are less willing to impose them

(B) imposing them becomes something judges and juries are less willing to do

(C) judges and juries become less willing about imposing them

(D) the less willing does imposing them by judge and jury become

(E) the less willing judges and juries are to impose them

30. Perhaps only among populations that have raised dairy animals for the past 10,000 years or so people retain beyond childhood the ability that they can produce lactase, the enzyme that enables them to digest milk products.

(A) people retain beyond childhood the ability that they can produce

(B) people retain beyond childhood the ability to produce

(C) is the ability of people retained beyond childhood to produce

(D) do people retain beyond childhood their ability for producing

(E) do people retain beyond childhood the ability to produce

31. The effect of the earthquake that caused most of Port Royal to sink into the Caribbean was like the eruption that buried ancient Pompeii: in each case a slice of civilization was instantly frozen in time.

(A) The effect of the earthquake that caused most of Port Royal to sink into the Caribbean was

(B) As the result of an earthquake, most of Port Royal sank into the Caribbean; the effect was

(C) In its effects, the sinking of most of Port Royal into the Caribbean was the result of an earthquake

(D) The earthquake that caused most of Port Royal to sink into the Caribbean was, in its effects,

(E) Most of Port Royal sank into the Caribbean because of an earthquake, the effect of which was

32. Cleveland that Sarah Short Austen, former vice president of the National Urban Coalition, remembers was a progressive city, the first of its size to elect a Black man, Carl Stokes, as mayor.

(A) Cleveland that Sarah Short Austen, former vice president of the National Urban Coalition, remembers

(B) The Cleveland that Sarah Short Austen, former vice president of the National Urban Coalition, remembers

(C) The city of Cleveland that Sarah Short Austen, who has been a former vice president of the National Urban Coalition, remembered

(D) The Cleveland that Sarah Short Austen, once a former vice president of the National Urban Coalition, has remembered

(E) Cleveland, a city remembered by Sarah Short Austen, once a former vice president of the National Urban Coalition,

33. Like John McPhee 's works, Ann Beattie painstakingly assembles in her works an interesting and complete world out of hundreds of tiny details about a seemingly uninteresting subject.

(A) Like John McPhee 's works, Ann Beattie painstakingly assembles in her works

(B) Like John McPhee, Ann Beattie 's works painstakingly assemble

(C) Like John McPhee, Ann Beattie painstakingly assembles in her works

(D) Just as John McPhee 's, so Ann Beattie 's works painstakingly assemble

(E) Just as John McPhee, Ann Beattie painstakingly assembles in her works

Answer Key for Multiple-Choice Questions

1. E 7. B 13. C 19. B 25. C 31. D
2. C 8. C 14. E 20. C 26. B 32. B
3. C 9. C 15. E 21. B 27. B 33. C
4. A 10. C 16. B 22. E 28. D
5. E 11. C 17. A 23. A 29. E
6. B 12. D 18. D 24. C 30. E