

GMAT PRACTICE PAPER

Sentence correction

1. The company is fortunate to have excellent relationships among its employees: they each have a relationship of respect for all the others.
(A) they each have a relationship of respect for all the others
(B) they have respect for one another
(C) each one has respect for one another
(D) they each have a relationship of respect for each other
(E) they and the others respect each other
2. Nine months after the county banned jet skis and other water boats from the tranquil waters of Puget Sound, a judge overturned the ban on the grounds of violating state laws for allowing the use of personal watercraft on common waterways.
(A) of violating state laws for allowing
of violating state laws to allow
(B) that it violates state laws that allowed
(C) that it violated state laws allowing
(D) that state laws were being violated allowing
3. Extracting pure aluminum from bauxite and other ores using the Hall-Héroult process, where a vast amount of electrical energy separates the element from aluminum oxide, making aluminum an energy-dense resource with a huge carbon footprint.
(A) using the Hall-Héroult process, where a vast amount of electrical energy separates the element from aluminum oxide, making
(B) by means of the Hall-Héroult process, in which a vast quantity of electrical energy separates the element from aluminum oxide to make
(C) by means of using the Hall-Héroult process, in which a vast quantity of electrical energy separates the element from aluminum oxide, is making
(D) by means of the Hall-Héroult process, in which a vast amount of electrical energy separates the element from aluminum oxide, makes
(E) using the Hall-Héroult process, where a vast amount of electrical energy separates the element from aluminum oxide, makes
4. At the Battle of Agincourt, the muddy field delayed the advance of the French infantrymen, and this allowed the English longbowmen to be able to inflict significant damage on them, and the English infantry eventually eliminated their reduced numbers easily.
(A) At the Battle of Agincourt, the muddy field delayed the advance of the French infantrymen, and this allowed the English longbowmen to be able to inflict significant damage on them, and the English infantry eventually eliminated their reduced numbers

easily

(B) Because the muddy field delayed the advance of the French infantrymen at the Battle of Agincourt, the English longbowmen could inflict significant damage on them, and, their numbers reduced, the English infantry easily had been able to eliminate them

(C) The muddy field delayed the advance of the French infantrymen at the Battle of Agincourt, allowing the English longbowmen to inflict significant damage on them, and because the number of the French infantrymen was reduced, the English infantry easily could eliminate those remaining few

(D) The French infantrymen at the Battle of Agincourt tried to advance but had been delayed by the muddy field, which allowed the English longbowmen to inflict significant damage on them, and the English infantry eventually would eliminate their reduced numbers with ease

(E) The French infantrymen at the Battle of Agincourt were delayed in their advance by the muddy field, it allowed the English longbowmen to inflict significant damage on them, their numbers were reduced, and the English infantry easily could eliminate those left

5. The vice-president of the engineering firm argued that the biggest advantage of the proposed alloy for the designs of the new fuselage would not lie in its unusually light weight but in its superior resistance to the corrosive influence of the elements.

(A) would not lie in its

(B) would lie not in its

(C) will lie in not their

(D) will not lie in their

(E) would lie in not its

6. The ability of neuroscientists to pinpoint the exact locations in the brain where complex sensory responses to a variety of stimuli occur, such as a logic-based board game or a series of violent images, have become ever more precise.

(A) The ability of neuroscientists to pinpoint the exact locations in the brain where complex sensory responses to a variety of stimuli occur, such as a logic-based board game or a series of violent images, have become ever more precise

(B) The ability of neuroscientists has become ever more precise in pinpointing the exact locations in the brain where complex sensory responses to a variety of stimuli occur, such as a logic-based board game or a series of violent images

(C) Neuroscientists have become able to pinpoint ever more precisely the exact locations in the brain where occur complex sensory responses to such a variety of stimuli as a logic-based board game or a series of violent images

(D) Neuroscientists can pinpoint ever more precisely the exact brain locations where complex sensory responses are to occur, to such a variety of stimuli like a logic-based board game or a series of violent images

(E) Neuroscientists' ability to pinpoint the exact brain locations in which complex

sensory responses occur to a variety of stimuli as would be a logic-based board game or a series of violent images became ever more precisely so

7. Dante Rossetti and his colleagues, in calling their group the Pre-Raphaelite Brotherhood, sought a return to the classical ideals of painting that held sway before Raffaello, to what governed the work of 15th century artists such as Sandro Botticelli.
 - (A) Raffaello, to what governed the work of 15th century artists such as Sandro Botticelli
 - (B) Raffaello, artistic principles that would govern the work of 15th century artists such as Sandro Botticelli
 - (C) Raffaello who governed the work of 15th century artists like Sandro Botticelli
 - (D) Raffaello by which the work of 15th century artists such as Sandro Botticelli was governed
 - (E) Raffaello that had governed the work of 15th century artists like Sandro Botticelli

8. One of Hannibal's successful battle techniques was charging wild elephants directly at the Roman armies, trampling infantry and inducing disarray in the ranks, but Scipio's successful counter strategy was to command that his men should part, creating channels that allowed the elephants simply to pass through, with them killing the elephants behind his ranks.
 - (A) to command that his men should part, creating channels that allowed the elephants simply to pass through, with them killing
 - (B) to command his men to part, thereby creating channels that allow the elephants simply to pass through, and then to kill
 - (C) commanding his men to part, creating channels allowing the elephants simply to pass through, and then to kill
 - (D) commanding that his men should part, creating channels to allow the elephants simply to pass through, and then killing
 - (E) commanding his men to part, creating channels allowing the elephants simply to pass through, and then having them kill

9. If medical researchers are correct, then the human microbiome, made up of the microorganisms in our body, may hold the cure to diseases that have long plagued humanity, amounting to a major oversight in Western medicine that has, until recently, all but ignored any such role of the microbiome.
 - (A) humanity, amounting to a major oversight in Western medicine that has, until recently, all but
 - (B) humanity, a discovery that is amounting to a major oversight in Western medicine, which, until recently, had all but
 - (C) humanity, a discovery amounting to a major oversight by Western medicine: until recently, it all but
 - (D) humanity, amounting to a major oversight made by Western medicine, one that, until recently, all but
 - (E) humanity, which amounts to a major oversight in Western medicine and until

recently it all but

10. The FDA enacted these recent restrictions both to prohibit individual physicians from forming financial partnerships with pharmaceutical companies and to forbid the companies to advertise directly to the physicians.
- (A) both to prohibit individual physicians from forming financial partnerships with pharmaceutical companies and to forbid the companies to advertise
 - (B) both to prohibit individual physicians to form financial partnerships with pharmaceutical companies while forbidding the companies to advertise
 - (C) to both prohibit individual physicians from forming financial partnerships with pharmaceutical companies and to forbid the companies from advertising
 - (D) both to prohibit individual physicians from forming financial partnerships with pharmaceutical companies and to forbid the companies from advertising
 - (E) to prohibit both individual physicians to form financial partnerships with pharmaceutical companies and to forbid the companies from advertising

Reading Comprehension

Chief Executive Officers are often driven more by their short-term personal interests than by the long-term good of their company. Therefore, it is a critical responsibility of the board of directors to ensure that executive compensation is linked to such performance targets that cannot be easily gamed by the CEO and so, can be achieved only if he creates actual and sustainable value for the company. Only such performance targets may be deemed to be good. Also, since they are difficult to manipulate, CEOs would statistically be as likely to meet these targets as to miss them; it is unlikely that, if no manipulation takes place, CEOs will just over perform most of the time. However, recent research has found that, in actual practice, CEOs meet their targets far more often than they miss them.

The performance targets of CEOs are often based on a single metric such as quarterly profitability or earnings per share. Such a system can be easily manipulated by them – by, for example, cutting the research and development spending that is critical for the organization's future. In contrast, when their payouts depend on three to five performance targets – based on metrics that are not closely correlated – CEOs are found to be just as likely to miss a given target as they are to exceed it.

Boards often determine their CEO's performance goals based on the company and sector growth forecasts provided by external analysts and the CEO himself. In self-interest, CEOs often lowball forecasts to get easily achievable targets. However, the resulting low performance targets prevent their company from growing to its full potential. Another feature of the executive compensation structure compounds this problem. Most boards specify a minimum performance threshold for their CEOs, below which the CEO receives no bonus. Then, his rewards rise steeply until the target is reached. Rewards for performing beyond this target grow much more slowly and eventually taper off. Thus, a CEO does not receive much personal profit from

achieving spectacular results as opposed to merely satisfactory ones and, therefore, rarely strives for them. The result of all this is a sated CEO but a stunted company.

Sub-Question 1 of 6

The author of the passage would be most likely to attribute the research finding mentioned in the first paragraph to which of the following causes?

- A Most boards act in their personal best-interest even if it is to the detriment of their organization.
- B Most boards fail to set such executive performance targets that cannot be manipulated by the CEOs.
- C Most boards use closely correlated performance metrics to measure executive performance.
- D Most boards accept without debate the company and sector growth forecasts presented to them by the CEOs.
- E Most boards offer lucrative payouts to CEOs upon the achievement of the set performance targets.

Sub-Question 2 of 6

The passage implies that which of the following is likely to be true about metrics X, Y and Z if the CEOs who are given performance targets based on these three metrics are far more likely to meet their targets than to miss them?

- A The boards which set performance targets based on X, Y and Z metrics do not consult external analysts before deciding the targets.
- B X, Y and Z are quantitative metrics and, therefore, easy to track.
- C X, Y and Z encompass a broad range of corporate activities.
- D Achievement of the target value of one of the three metrics automatically results in achievement of the target values of the other two.
- E X, Y and Z are popular metrics used in executive performance targets.

Sub-Question 3 of 6

According to the passage, which of the following is not a feature of good performance targets set by a board for its CEO?

- A They involve multiple metrics.
- B They are challenging to achieve.
- C They cannot be easily gamed by the CEO.
- D They reward the CEO for superlative performance.
- E They are aligned to the long-term good of the company.

Sub-Question 4 of 6

Which of the following rationale to taper off CEO rewards for performance beyond the set targets can be inferred from the passage?

- A Most boards are concerned that executive compensation should seem reasonable to the shareholders.
- B It is highly unlikely that CEOs will achieve beyond their set targets.
- C CEOs are usually more interested in earning their bonus than in improving their performance beyond the set targets.
- D If the rewards are not capped around the set targets, CEOs are encouraged to game their performance.
- E If payouts increase at a constant rate relative to performance, CEOs are likely to take excessive risks to achieve higher and higher payouts.

Sub-Question 5 of 6

The passage supports each of the following statements EXCEPT

- A The performance targets of most CEOs are not aligned to their company's mission and values.
- B If the bonus of a CEO depends only on the earnings per share of his company, then he is likely to make a strategic choice that improves earnings per share even if it hurts revenue growth.
- C Most CEOs strive hard to hit the performance targets that are linked to their compensation.
- D The boards of most companies fail to set multiple performance targets for their CEOs.
- E In most companies, CEO rewards for performance do not increase at a steady rate.

Sub-Question 6 of 6

The author is primarily concerned with

- A Analyzing the consequences of an entity's behavior
- B Discussing the flaws in the way an entity discharges its duty
- C Giving counter-examples against a claim made about an entity
- D Enumerating the responsibilities of an entity
- E Suggesting a better way to execute a particular task

Quant

1. Choose the correct answer.

If k is an odd integer, which of the following must be an even integer?

- $k^2 - 4$
- $3k + 2$
- $2k + 1$
- $(12k)/8$
- $(6k)/3$

2. Choose the correct answer.

If k is an integer and $k = 462/n$, then which of the following could be the value of n ?

- 4
- 5
- 9
- 13
- 22

3. Choose the correct answer.

How many positive integers less than 100 have a remainder of 2 when divided by 13?

- 6
- 7
- 8
- 9
- 10

4. Choose the correct answer.

Joan has 100 candies to distribute among 10 children. If each child receives at least 1 candy and no two children receive the same number of candies, what is the maximum number of candies that a child can receive?

- 10
- 34
- 39
- 45
- 55

5. Choose the correct answer.

If the average (arithmetic mean) of x , y and 15 is 9, and the average of x , $2y$ and 2 is 7, then $y =$

- 5
- 6
- 7
- 8
- 9

6. Choose the correct answer.

If $(4/w) + (4/x) = (4/y)$, and $wx = y$, then the average (arithmetic mean) of w and x is

- $1/2$
- 1
- 2
- 4
- 8

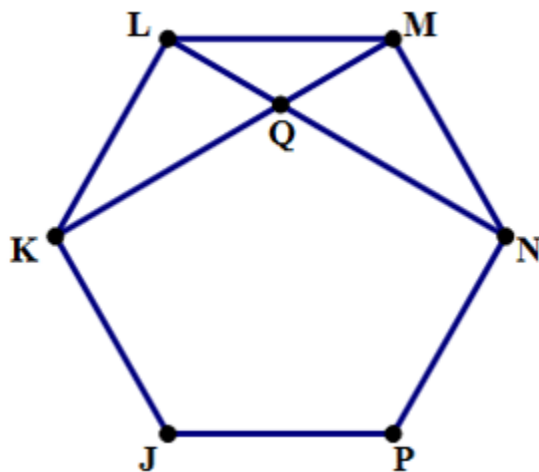
7. Choose the correct answer.

In how many different ways can 3 identical green shirts and 3 identical red shirts be distributed among 6 children such that each child receives a shirt?

- 20
- 40
- 216
- 720
- 729

8. Choose the correct answer.

In the figure, JKLMNP is a regular hexagon. Find the measure of $\angle MQN$.



- 30°
- 45°
- 50°
- 60°
- 75°

9. Choose the correct answer.

If the population of Townville went from 2105 to 1705, then the percent decrease in population is closest to

- 19
- 21
- 22
- 23
- 24

10. Choose the correct answer.

The system of equations has how many solutions?

$$3x - 6y = 9$$

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

- None
- Exactly 1
- Exactly 2
- Exactly 3
- Infinitely many

11. Choose the correct answer.

If $x \neq 2.5$ and $2x = |15 - 4x|$, then $x =$

- 3.5
- 4.5
- 5.5
- 6.5
- 7.5

12. Choose the correct answer.

What is the sum of all possible solutions of the equation:

$$|x + 4|^2 - 10|x + 4| = 24?$$

- 16
- 14
- 12
- 8
- 6

13. Choose the correct answer.

If $2^A = 3$ and $2^B = 5$, then $2^{2A+B} =$

- 11
- 30
- 45
- 75
- 225

14. Choose the correct answer.

When a certain coin is flipped, the probability of heads is 0.5. If the coin is flipped 6 times, what is the probability that there are exactly 3 heads?

- 1/4
- 1/3
- 5/16
- 31/64
- 1/2

15. Choose the correct answer.

Working alone, pump A can empty a pool in 3 hours. Working alone, pump B can empty the same pool in 2 hours. Working together, how many minutes will it take pump A and pump B to empty the pool?

- 72
- 75
- 84
- 96
- 108

16. Choose the correct answer.

If an object travels 100 feet in 2 seconds, what is the object's approximate speed in miles per hour? (Note: 1 mile = 5280 feet)

- 3.4
- 3.8
- 34
- 38
- 340

17. Choose the correct statement.

If x and y are integers, is the product xy odd?

(1) $x = -5$

(2) x and y are consecutive integers

Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.

Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.

BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient.

Each statement ALONE is sufficient to answer the question.

Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.

18. Choose the correct statement.

k is an integer from 1 to 9 inclusive. If $N = 29736 + k$, what is the value of k ?

(1) N is divisible by 9

(2) N is divisible by 5

Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.

Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.

BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient.

Each statement ALONE is sufficient to answer the question.

Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.

19. Choose the correct statement.

What is the remainder when positive integer n is divided by 4?

(1) When n is divided by 8, the remainder is 1.

(2) When n is divided by 2, the remainder is 1.

Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.

Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.

BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient.

Each statement ALONE is sufficient to answer the question.

Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.

20. Choose the correct statement.

What is the value of y ?

(1) $3y - 1 = \sqrt{8y^2 - 4y + 9}$

(2) $y^2 - 2y - 8 = 0$

Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.

Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.

BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient.

Each statement ALONE is sufficient to answer the question.

Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.

21. Choose the correct statement.

What is the average (arithmetic mean) of a , b , c and d ?

(1) The average of a , b and c is 6

(2) The average of b , c and d is 6

Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.

Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.

BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient.

Each statement ALONE is sufficient to answer the question.

Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.

22. Choose the correct statement.

What is the average (arithmetic mean) of x and y ?

(1) The average (arithmetic mean) of x , y and k is 7.

(2) The average (arithmetic mean) of x , y and $3k$ is 13.

Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.

Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.

BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient.

Each statement ALONE is sufficient to answer the question.

Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.

23. Choose the correct statement.

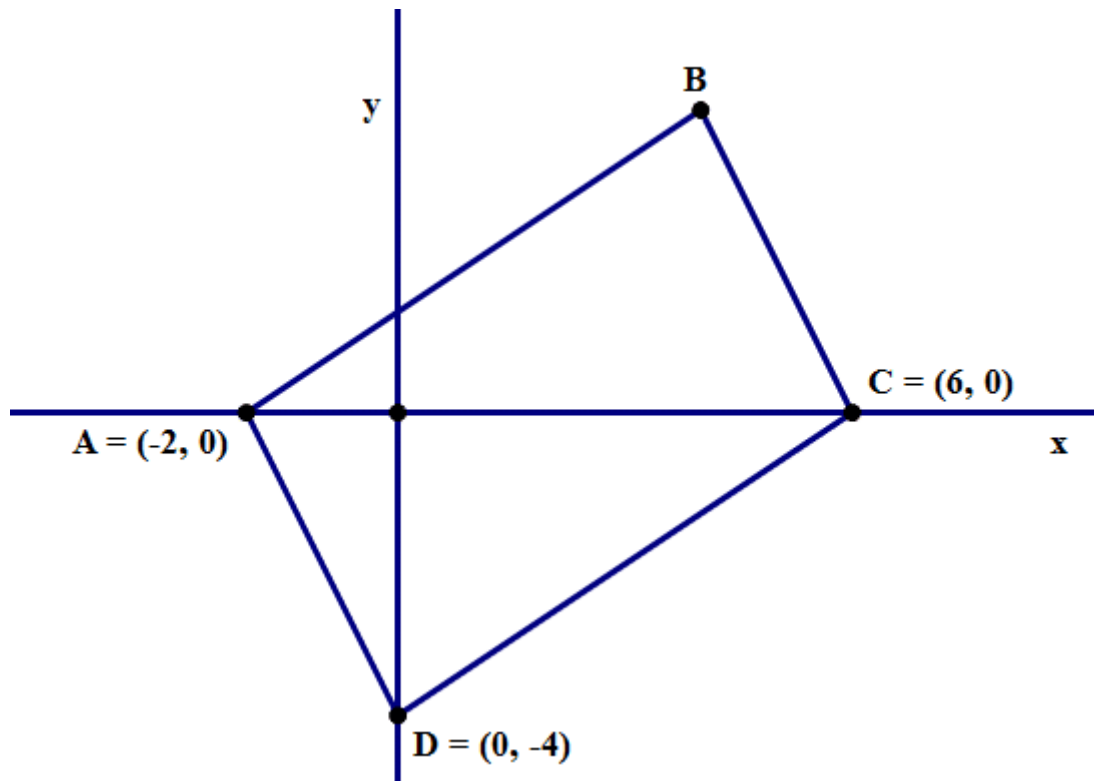
In a certain group, the average (arithmetic mean) age of the males is 28, and the average age of the females is 30. If there are 100 people in the group, how many of them are males?

(1) The average age of all 100 people is 28.9

(2) There are 10 more males than there are females.

Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.

- Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.
- BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient.
- Each statement ALONE is sufficient to answer the question.
- Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.



In the diagram above, coordinates are given for three of the vertices of quadrilateral ABCD. Does quadrilateral ABCD have an area greater than 30?

(1) point B has an x-coordinate of 4

(2) quadrilateral ABCD is a parallelogram

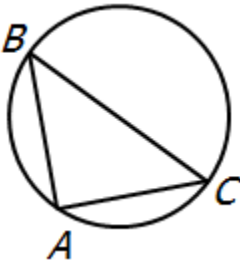
- Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.
- Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.
- BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient.
- Each statement ALONE is sufficient to answer the question.
- Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.

25. Choose the correct statement.

If the circle has radius 6, what is the area of the triangle?

(1) $AC = AB$

(2) $BC = 12$



Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.

Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.

BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient.

Each statement ALONE is sufficient to answer the question.

Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.

Question 26 of 67

26. Choose the correct statement.

In a group of 80 college students, how many own a car?

(1) Of the students who do not own a car, 14 are male.

(2) Of the students who own a car, 42% are female.

Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.

Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.

BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient.

Each statement ALONE is sufficient to answer the question.

Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.

27. Choose the correct statement.

Is $x > y$?

(1) $x - y - 1 > 0$

(2) $x - y + 1 > 0$

Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.

Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.

BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient.

Each statement ALONE is sufficient to answer the question.

Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.

28. Choose the correct statement.

Is $x > 5$?

(1) $x < 6$

(2) $x < 4$

Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.

Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.

BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient.

Each statement ALONE is sufficient to answer the question.

Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.

29. Choose the correct statement.

If x is a positive integer, is \sqrt{x} an integer?

(1) $\sqrt{36x}$ is an integer

(2) $\sqrt{3x + 4}$

Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.

Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.

BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient.

Each statement ALONE is sufficient to answer the question.

Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.

30. Choose the correct statement.

Robin drove from Townsville to Villagetton. Upon arriving in Villagetton, she immediately returned to Townsville by the same route. What was Robin's average speed for the entire trip?

(1) While driving from Townsville to Villagetton, Robin's average speed was 40 miles per hour. While driving from Villagetton to Townsville, Robin's average speed was 60 miles per hour.

(2) The distance from Townsville to Villagetton is 120 miles.

Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.

Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.

BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient.

Each statement ALONE is sufficient to answer the question.

Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.