

Language Skills

Check My Answer

Show Correct Answer

Select the word or phrase that is nearly the opposite in meaning to the given word: *assuage*

- ☐ A. point
- ☐ B. add on
- ☐ C. aggravate
- ☐ D. ameliorate
- ☒ E. accentuate

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Directions: Choose the word or set of words for each blank that fits the meaning of the sentence.

Though car seat belts replaced harnesses worn by car drivers, the three-point seat belt became popular only in 1958 after the public _____ the idea of safety belts. Subsequently, the sales of the seat belts _____ because since 1966 it has become mandatory to wear car seat belts in America.

- ☐ A. caught up on... ...nosedived
- ☐ B. caught sight of... ...stabilised
- ☐ C. caught on to... ...skyrocketed
- ☐ D. caught light of... ...boomeranged
- ☒ E. caught up with... ...stopped

Directions: Choose the correct sequence of prepositions that completes the 3 given sentences.

1. People join society clubs to meet new people from different social groups, but if the wall _____ the new members and the existing members is impermeable, chances are that more new people will leave the clubs than join.

2. In a convention that was attended by scientists from all over the world, there were long discussions _____ the participants on the future of science.

3. Several questions _____ the evolution of marine species in the Pacific and Atlantic Oceans were raised.

(A) among

(B) between

(C) of

(D) with

(E) concerning

(F) around

☒ A. BAE

☐ B. ABF

☐ C. CDF

☐ D. ABC

☐ E. BEF

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Directions: Choose the word or pair of words that shows similar relationship as the given pair.

emperor : throne :: _____ : _____

- ☐ A. vault : money
- ☐ B. lava : volcano
- ☐ C. lion : circus
- ☐ D. incumbent : office
- ☒ E. menu : restaurant

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Directions: Choose the word or set of words for each blank that fits the meaning of the sentence.

To everyone's surprise, the _____ sales of a specific collection of coffee mugs, which were considered a hit in the market, came to a sudden _____ when the environmental agency detected and announced the presence of hazardous materials in those mugs.

- ☐ A. heightening... ..debacle
- ☐ B. increasing... ..halt
- ☐ C. short-lived... ..pause
- ☐ D. volatile... ..standstill
- ☒ E. troubled... ..kick-start

Passage

Exporting means the sale of an item produced, stored or processed in the supplying firm's home country in a foreign land. Some firms regard exporting as little more than a convenient way of increasing total sales; others see it as a crucial element of overall corporate strategy. 'Passive' exporting occurs when a firm receives orders from abroad without having canvassed them. 'Active' exporting, conversely, results from a strategic decision to establish proper systems for organising the export function and for procuring foreign sales. Exporting may be direct or indirect. With direct exporting, the exporter assumes full responsibility for the transfer of goods to foreign customers, customs clearance, local advertising and final sale of the goods. Indirect exporting uses intermediaries. Export merchants, for example, reside in the exporter's country, acting as principals in exports' transactions (that is, buying and selling on their own accounts). They are wholesalers who operate in foreign markets through their own salespeople, stockists and, perhaps, retail outlets. Exporters are relieved of administrative problems, documentation, shipping, internal transport and so on, and do not carry the risks of market failure. However, they lose control over the presentation of their products and foreign sales may fall because of poor foreign retailing.

Exporting is cheap and convenient to administer and carries no risk of failure of direct foreign investments. The revenues from foreign sales accrue entirely to the exporting company (rather than it having to repatriate profits from foreign subsidiaries), and the firm builds up a network of contacts of foreign agents, distributors, retail outlets, etc. Direct exporting provides total control over the selling process, prevents the need to share know-how with foreign partners and cuts out expensive intermediaries. Exporting can be highly profitable, although the development of an export facility can place severe strain on the business's resources.

The word 'accrue' most nearly means:

- ☐ A. waste
- ☐ B. lessen
- ☐ C. collect
- ☐ D. scatter
- ☒ E. dissipate

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What is the central idea of the passage?

- ☐ A. How sales are dependent on exporting.
- ☐ B. How business depends heavily on exporting.
- ☐ C. Exporting - its role, types, merits and demerits.
- ☐ D. The process of exporting and the types of exports.
- ☒ E. Export merchants act as catalysts in the exporting process.

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According to the passage, indirect exporting involves fewer problems; however, the major drawback lies in the fact that:

- ☐ A. internal transport makes it difficult.
- ☐ B. there can be a risk of market failure also.
- ☐ C. administrative problems can arise at times.
- ☒ D. dealing with intermediaries can be a painful process.
- ☐ E. the exporter has little control over poor presentation of their goods on foreign shores which might affect sales.

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The phrase 'strategic decisions' most nearly means:

- ☒ A. method
- ☐ B. instance
- ☐ C. good plan
- ☐ D. pilot study
- ☐ E. premeditated plan

Passage

Cancer, a word that elicits dread in nearly everyone, continues to puzzle scientists. Despite attempts made by science to decipher this terrible disease, scientists still struggle to find an answer to questions such as, 'why does cancer strike some and not others?', 'Are its 'seeds' part of our genetic makeup?'

Different terms are used when discussing cancer. *Neoplasm* is an abnormal cell mass that develops when the controls of the cell cycle and cell division malfunction. However, all neoplasms are not cancerous. *Benign* neoplasms do not spread, and are always seen to be local affairs. They are usually surrounded by a capsule and grow slowly, seldom killing their hosts if they are removed before they affect vital organs. *Malignant* neoplasms, on the other hand, are non-encapsulated, grow more relentlessly and can even kill. They resemble immature cells and invade their surroundings rather than push them aside. Malignant cells are also capable of *metastasis* – ie, they tend to spread via blood to distant parts of the body and form new masses.

But what causes the *transformation*? In other words, what converts a normal cell to a cancerous one? It is well known that cancer-causing elements or *carcinogens* can be found in radiation, mechanical trauma, certain viral infections and many chemicals (tobacco tars, saccharine). All of these have one common factor - all of them cause mutations, which are changes in DNA that alter the expressions of certain genes. Usually carcinogens are eliminated by the immune system or certain enzymes. It must also be stated here that it takes much more than just one mutation to change a normal cell into a full-fledged cancer cell. It was with the discovery of *oncogenes* (cancer causing genes) followed by *proto-oncogenes* that the role of genes started to gain prominence. Although proto-oncogenes code for proteins that are needed for normal cell division and growth, many of them have fragile areas that break when exposed to carcinogens, converting them to oncogenes. As a result, problems such as, 'switching on' of dormant genes that allow cells to become invasive, arise. Oncogenes have been discovered in only 15 to 20 per cent of human cancers. Therefore, it came as no surprise when the tumour suppressor genes were discovered recently – these, as their names suggest, suppress or prevent cancer. The tumour suppressor genes not only put the 'brakes' on cell division but they help with DNA repair and help to deactivate carcinogens, thereby enhancing the immune system's ability to destroy cancer cells. It is when the tumour suppressor genes are damaged or changed in some way, that the oncogenes are free to 'do their thing'. Whatever the precise genetic factor at work, the seeds of cancer do appear to be in our own genes. Cancer is indeed intimate!

What is the central idea of the passage?

- ☒ A. evolution of cancer
- ☐ B. role of genes in cancer
- ☐ C. early warning signs of cancer
- ☐ D. procedures for detecting cancer
- ☐ E. how an abnormal cell mass can cause cancer

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According to the passage, cancer is an 'intimate enemy' because:

- ☒ A. of the kind of treatment available for cancer.
- ☐ B. most of us know someone who has had cancer.
- ☐ C. it is closely related to the body's immune system.
- ☐ D. it brings people affected by cancer closer together.
- ☐ E. the 'seeds' of cancer appear to be in our own genes.

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According to the author, what can be concluded from the passage?

- ☒ A. Occurrence of cancer depends on our genetic make-up.
- ☐ B. Abnormal masses in the body are the sole reason for cancer.
- ☐ C. Cancer has now become a very common disease and can be treated easily.
- ☐ D. There are several factors that cause cancer and genes play a significant role.
- ☐ E. Though cancer is a dreadful disease, there are several promising new treatments.

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According to the passage, the author most likely agrees with all of the following statements EXCEPT:

- ☒ A. Surgical removal is a treatment for neoplasm.
- ☐ B. It takes only one genetic mutation to make a normal cell cancerous.
- ☐ C. Most carcinogens are eliminated by enzymes or the immune system.
- ☐ D. Carcinogens cause changes in DNA that alter the expression of genes.
- ☐ E. Chemicals such as tobacco tar and saccharine can act as carcinogens.

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Directions: In the given question, the sentence has four underlined words or phrases. Identify the one underlined word or phrase that must be changed for the sentence to be correct. Mark (E) for no error.

But this time, the party is at a nadir of its influence in national politics.

- ☒ A. the
- ☐ B. a
- ☐ C. its
- ☐ D. in
- ☐ E. No error

Language Skills

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Direction: Choose the word or pair of words that best completes the relationship to the given pair.

connoisseur : tasting :: calligrapher : _____

☒ A. eating

☐ B. racing

☐ C. writing

☐ D. reading

☐ E. dancing

Language Skills

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Directions: Rearrange the jumbled sentences to show the appropriate sequence.

- (A) While this was better than many other countries', it did paint a picture of a bleak economy.
 (B) A far cry from the double-digit growths seen in the previous few years.
 (C) Economists predicted a growth of 4.5% for the fiscal year ending March of 2013.
 (D) Additionally, political uncertainties and elections in the coming year were keeping investors away.
 (E) Weak domestic and foreign demands had been the primary cause.

☒ A. CBAED

☐ B. BDCAE

☐ C. BACED

☐ D. DEBCA

☐ E. ACEDB

Passage

It is a well-known fact that psychologists need to evaluate traits of individuals for therapeutic interventions, and therefore perform systematic personality tests at a scientific level. The aim of graphologists too is to assess the personality, character and abilities of different people, but through their handwriting. Graphology is not a new technique and has been researched over the centuries by many scientists and other qualified personalities.

References to Graphology can be traced back to the fourth century BCE when Chinese philosopher Kuo Jo-Hsu said that handwriting 'inevitably' depicts the personality of the writer. Aristotle, the famous Greek philosopher, emphasised that there was a link between handwriting and thinking capabilities of a person, and the handwriting is accordingly formed. Though there have been many researchers who have related writing to personality, it is Jean Hippolyte Michon, a French preacher and educator of the nineteenth century, who is considered as the 'Father of Graphology.' Michon believed that handwriting was in fact soul writing. However, he adds that the writing that a child learns is not soul writing, as that is too mechanical; it is when one writes freely that one's soul comes into play. Further, he said that it is due to the impressions and perceptions of the brain that the soul starts expressing itself in letters.

The various characteristics of handwriting that come under the lens of a graphologist include the formation of letters, the space between them, the connection between them, the pen pressure, slant of letters, baseline alignment, size of letters and so on. Depending upon the area of the paper that is selected by a person to write or draw, a graphologist concludes whether the person is egoistic, intellectual, instinctive, communicative or regressive. Signatures are also analysed to assist in this analysis.

There are many people who believe in the efficacy of graphology, but there are others who refuse to believe that it can competently achieve its desired objective. The British Psychological Society in 1993 had ruled against graphology as a viable assessment tool. Many studies that have been carried out have also proved the same. Graphology has been called a pseudo-science and placed in the category of palm-reading and astrology.

Despite the negative reviews, graphology has been used in fields such as patient personality diagnosis, employment assessments and personality conflict resolutions. There are many researchers who believe in the authenticity of this practice. Okakura Kakuzō, a Japanese philosopher said 'Each stroke of writing expresses an entire life'. Every person's handwriting is as unique as his or her personality, which makes it difficult not to connect the two. One can only conclude that since the acceptance of graphology for personality assessment has been a topic of debate, it should be used along with other assessment tools for the time being.

The author mentions the ruling of The British Psychological Society primarily to

- ☒ A. give a historical context to the argument about graphology presented in the passage.
- ☐ B. support Kuo Jo-Hsu's viewpoint regarding the nature of handwriting mentioned in the second paragraph.
- ☐ C. provide an example of the academic circle who supported the use of graphology in personality assessment.
- ☐ D. prove that graphology cannot be considered as an authentic practice to assess an individual's personality.
- ☐ E. support the critical view of graphology that has been mentioned in the preceding statement.

Passage

It is a well-known fact that psychologists need to evaluate traits of individuals for therapeutic interventions, and therefore perform systematic personality tests at a scientific level. The aim of graphologists too is to assess the personality, character and abilities of different people, but through their handwriting. Graphology is not a new technique and has been researched over the centuries by many scientists and other qualified personalities.

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The passage most strongly suggests which of the following statements about Aristotle's opinion related to the nature of handwriting?

- ☒ A. Handwriting can be construed to be a use of language and language can be considered a symbol of mental experience.
- ☐ B. An individual's handwriting is the soulful expression of that individual's perception of others' experiences and perceptions.
- ☐ C. The personality, habits or traits of individuals can change if they make conscious efforts to gradually modify their handwriting.
- ☐ D. Handwriting is an independent activity which is not influenced by the way a person feels or thinks.
- ☐ E. Personality traits cannot be communicated through handwriting as the latter does not reflect unconscious mental functions.

Passage

It is a well-known fact that psychologists need to evaluate traits of individuals for therapeutic interventions, and therefore perform systematic personality tests at a scientific level. The aim of graphologists too is to assess the personality, character and abilities of different people, but through their handwriting. Graphology is not a new technique and has been researched over the centuries by many scientists and other qualified personalities.

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The primary purpose of the passage is to

- ☒ A. propose a new suggestion about how graphology can be successfully used as a personality assessment tool.
- ☐ B. discuss the advantages of using graphology for personality assessment.
- ☐ C. explain the changes in opinions that led to the acceptance of graphology in the field of personality assessment.
- ☐ D. introduce graphology as a possibly useful technique in the field of personality assessment.
- ☐ E. argue with the philosophers who considered graphology a valuable personality assessment tool.

Passage

It is a well-known fact that psychologists need to evaluate traits of individuals for therapeutic interventions, and therefore perform systematic personality tests at a scientific level. The aim of graphologists too is to assess the personality, character and abilities of different people, but through their handwriting. Graphology is not a new technique and has been researched over the centuries by many scientists and other qualified personalities.

References to Graphology can be traced back to the fourth century BCE when Chinese philosopher Kuo Jo-Hsu said that handwriting 'inevitably' depicts the personality of the writer. Aristotle, the famous Greek philosopher, emphasised that there was a link between handwriting and thinking capabilities of a person, and the handwriting is accordingly formed. Though there have been many researchers who have related writing to personality, it is Jean Hippolyte Michon, a French preacher and educator of the nineteenth century, who is considered as the 'Father of Graphology.' Michon believed that handwriting was in fact soul writing. However, he adds that the writing that a child learns is not soul writing, as that is too mechanical; it is when one writes freely that one's soul comes into play. Further, he said that it is due to the impressions and perceptions of the brain that the soul starts expressing itself in letters.

The various characteristics of handwriting that come under the lens of a graphologist include the formation of letters, the space between them, the connection between them, the pen pressure, slant of letters, baseline alignment, size of letters and so on. Depending upon the area of the paper that is selected by a person to write or draw, a graphologist concludes whether the person is egoistic, intellectual, instinctive, communicative or regressive. Signatures are also analysed to assist in this analysis.

There are many people who believe in the efficacy of graphology, but there are others who refuse to believe that it can competently achieve its desired objective. The British Psychological Society in 1993 had ruled against graphology as a viable assessment tool. Many studies that have been carried out have also proved the same. Graphology has been called a pseudo-science and placed in the category of palm-reading and astrology.

Despite the negative reviews, graphology has been used in fields such as patient personality diagnosis, employment assessments and personality conflict resolutions. There are many researchers who believe in the authenticity of this practice. Okakura Kakuzō, a Japanese philosopher said 'Each stroke of writing expresses an entire life'. Every person's handwriting is as unique as his or her personality, which makes it difficult not to connect the two. One can only conclude that since the acceptance of graphology for personality assessment has been a topic of debate, it should be used along with other assessment tools for the time being.

According to the passage, which of the following statements about the use of graphology as a personality assessment tool is true?

- ☒ A. Depending upon the type of paper that a person selects to write on, some qualities of that person can be inferred.
- ☐ B. There are many people who believe that the results of handwriting assessment are not scientific evidences.
- ☐ C. There is consensus among the users regarding the fields in which graphology can be used for personality assessment.
- ☐ D. Despite the extensive research by many philosophers, it is only recently that graphology has been universally accepted as a genuine practice.
- ☐ E. The results of graphology assessments should not be correlated with those of other assessment tools.

Language Skills

Check My Answer

Show Correct Answer

Directions: Choose the word or pair of words that best completes the relationship to the given pair.

kind: benevolent :: _____ : _____

- ☒ A. empty : full
- ☐ B. blemish : loyalty
- ☐ C. absurd : rational
- ☐ D. stubborn : obstinate
- ☐ E. capricious : unchanging

Language Skills

Check My Answer

Show Correct Answer

Directions: Choose the word or set of words for each blank that best fits the meaning of the sentence.

A _____ person donated \$9,000 to the hospital. This amount was used to repair the lobby of the hospital that had been _____ by a lunatic. Ironically, both the men live in the same apartment block.

☐ A. benevolent vandalised

☐ B. ambivalent amortised

☐ C. prevalent conceited

☒ D. turbulent digressed

☐ E. vapid fabricated

Language Skills

Check My Answer

Show Correct Answer

Directions: Choose the word or set of words for each blank that fits the meaning of the sentence.

Many farmers use fertiliser to _____ the growth of crops, but when overused it can increase run-off from yards and can _____ waterways, so it is best to reduce or eliminate the use of fertiliser.

- ☒ A. regulate... ..cleanse
- ☐ B. curtail... ..galvanise
- ☐ C. enhance... ..proliferate
- ☐ D. castigate... ..consecrate
- ☐ E. boost... ..contaminate

Language Skills

Check My Answer

Show Correct Answer

Directions: Choose the set of prepositions whose meaning and sequence best fits the three given sentences.

1. The formation of a star is accompanied _____ the release of gas and dust.
 2. Albert Einstein is often regarded _____ the father of modern physics.
 3. A rainbow is a beautiful display _____ vibrant colours.
- (A) as
(B) by
(C) of
(D) from
(E) among
(F) through

☒ A. AED

☐ B. DFB

☐ C. BCD

☐ D. BAC

☐ E. EDF

Language Skills

Check My Answer

Show Correct Answer

Directions: Choose the word or pair of words that shows similar relationship as the given pair.

languid : vivacity :: _____ : _____

- ☒ A. tranquil : repose
- ☐ B. petulant : forbearance
- ☐ C. outlandish : oddity
- ☐ D. congruous : coherence
- ☐ E. inarticulate : blemish

Language Skills

Check My Answer

Show Correct Answer

Directions: Choose the word or set of words for each blank that fits the meaning of the sentence.

To accentuate its profit margins, XYZ store has been advertising aggressively to _____ from the popular ABC store, but contrary to the intended goal the sales have _____.

- ☐ A. draw customers away... ...plummeted further
- ☐ B. match customers... ...increased considerably
- ☐ C. convince customers... ...not been affected
- ☐ D. cooperate with... ...gone up and down
- ☒ E. inspire customers... ...reached a peak

Language Skills

Check My Answer

Show Correct Answer

Directions: In the given question the sentence has four underlined words or phrases. Identify the one underlined work or phrase that must be changed in order for the sentence to be correct. Mark (E) for no error.

New historical critics besides reviewing literary works as historical products also examine the prevalent culture and ideology of the society that reflects in the works.

- ☒ A. besides reviewing
- ☐ B. literary works
- ☐ C. also examine
- ☐ D. that reflects
- ☐ E. No error

Language Skills

Check My Answer

Show Correct Answer

Directions: Rearrange the jumbled sentences to show the appropriate sequence.

- (A) The deposits consisting of sand, silt and clay are called alluvium.
 (B) Hence, people have settled in these plains since time immemorial and they are some of the most densely populated regions of any country.
 (C) The combination of flat surfaces, fertile soil and water is ideal for agriculture as well as trade.
 (D) Alluvial plains are extremely fertile because of the mineral deposits from rivers as they flow down mountains.

☒ A. ACDB

☐ B. DACB

☐ C. ADBC

☐ D. CBAD

☐ E. DABC

Language Skills

Check My Answer

Show Correct Answer

Directions: Choose the word or pair of words that best completes the relationship to the given pair.

epistle : letter :: _____ : _____

☒ A. elegy : depressed

☐ B. epithet : depiction

☐ C. epitaph : true

☐ D. lyrics : writer

☐ E. ode : poem

Language Skills

Check My Answer

Show Correct Answer

Directions: Choose the correct sequence of prepositions that best completes the three given sentences.

1. She parked the car and rushed _____ the store.
 2. The wind uprooted a tree and caused it to fall _____ the window.
 3. Students who stay _____ all night will fall asleep in class.
- (A) against
(B) in
(C) across
(D) by
(E) into
(F) up

☒ A. BCF

☐ B. BED

☐ C. EAF

☐ D. ECB

☐ E. FED

Language Skills

Check My Answer

Show Correct Answer

Directions : In the given question, the sentence has four underlined words or phrases. Identify the one underlined word or phrase that must be changed in order to make the sentence correct. Mark (E) for no error.

The constellation Aquarius was associated with the rainy seasons by a large amount of ancient civilisations.

- ☐ A. associated
- ☒ B. rainy
- ☐ C. large
- ☐ D. amount
- ☐ E. No error

Language Skills

Check My Answer

Show Correct Answer

Directions: Fill in the blanks with the appropriate words.

Having been selected to represent the Association of Indian Managers at the International Convention, _____.

- ☐ A. he gave a short acceptance speech
- ☐ B. a speech had to be given by him
- ☐ C. the members congratulated him
- ☒ D. the members applauded him
- ☐ E. member congratulates him

Language Skills

Check My Answer

Show Correct Answer

Directions: Rearrange the jumbled sentences to show the appropriate sequence.

- (A) They decided unanimously that the birds in the Tamil Nadu part of the Pullicat Lake would be counted the following weekend.
 (B) Due to this, the bird-watchers were in a dilemma about which part of the lake to go to.
 (C) Incidentally, part of the Pullicat Lake was in Tamil Nadu and part in Andhra Pradesh's Nellore district.
 (D) Finally, after some debate, it was decided that the birds in the Andhra part of the Pullicat Lake would be counted that week.
 (E) The mission of the bird-watchers was to count the flamingoes that had been sighted at the Pullicat Lake.

☒ A. BACDE

☐ B. BCDEA

☐ C. DEABC

☐ D. EDBDC

☐ E. ECBDA

Language Skills

Check My Answer

Show Correct Answer

Directions: In the given question, the sentence has four underlined words or phrases. Identify the one underlined word or phrase that must be changed in order to make the sentence correct. Mark E for no error.

The series of far-reaching reforms that was specially launched in Iran in 1963 by the Shah, Mohammad Reza Pahlavi, to strengthen those classes that supported the traditional system were called the White Revolution.

- ☒ A. series
- ☐ B. reforms
- ☐ C. was
- ☐ D. were
- ☐ E. No error

Language Skills

Check My Answer

Show Correct Answer

Directions: In the given question, the sentence has four underlined words or phrases. Identify the one underlined word or phrase that must be changed in order to make the sentence correct. Mark E for no error.

Salinity is define as the salt content of a water body.

☒ A. Salinity

☐ B. define

☐ C. content

☐ D. body

☐ E. No error

Language Skills

Check My Answer

Show Correct Answer

Directions: In the given question, the sentence has four underlined words or phrases. Identify the one underlined word or phrase that must be changed in order to make the sentence correct. Mark E for no error.

A representative of the Reserve Bank will provide the students with an insight into the economic future of the country.

- ☐ A. A representative
- ☐ B. provide the students
- ☐ C. insight into
- ☒ D. of the country
- ☐ E. No error

Quantitative Skills

Check My Answer

Show Correct Answer

Which of the following exactly divides x , where x is the sum of the first 15 prime numbers?

☐ A. 11

☒ B. 21

☐ C. 31

☐ D. 41

☐ E. 51

Quantitative Skills

Check My Answer

Show Correct Answer

Initially, David, Emma and Frank had 320, 400 and 560 candies respectively. They distributed these candies in such a way that David gave $x\%$ of his candies to Emma, after which Emma gave $2x\%$ of her candies to Frank and then Frank gave $\frac{x}{2}\%$ of his candies to David. With this distribution, Emma was left with 0 candies. If instead they had distributed the candies in such a way that David gave $x\%$ of his candies to Emma, after which Emma gave $x\%$ of her candies to Frank and then Frank gave $x\%$ of his candies to David, then how many candies would David have after the distribution?

☐ A. 160

☐ B. 280

☐ C. 420

☐ D. 580

☒ E. 600

Quantitative Skills

Check My Answer

Show Correct Answer

Girish bought a car and got a dealer's discount of 15% on the original price. He sold it at a profit of 20% on the purchase price. If he had got a discount of 12% on the original price and had sold it for the same profit percentage of the purchase price, what would be the difference in the profit percentages of the two transactions?

- ☐ A. 2%
- ☐ B. 3.6%
- ☐ C. 5%
- ☐ D. 5.6%
- ☒ E. 8%

Quantitative Skills

Check My Answer

Show Correct Answer

Directions: A question is followed by two statements, labelled (1) and (2). Using the information provided and general knowledge, decide whether the information given is sufficient to solve the problem.

What is the speed of the boat in still water?

(1) The boat covers a distance of 140 km in 7 hours upstream.

(2) The boat covers the same distance in 5 hours downstream.

- ☐ 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.

Quantitative Skills

Check My Answer

Show Correct Answer

A mechanical system has three components: A, B and C. The chances of these individual components failing are 0.1, 0.2 and 0.3, respectively. The system fails if at least any one of the components fails. What is the probability of the system's failure?

☐ A. 0.056

☐ B. 0.113

☐ C. 0.496

☒ D. 0.504

☐ E. 0.612

Quantitative Skills

Check My Answer

Show Correct Answer

A software generates passwords using all of the whole numbers that are less than 5. All the passwords are 5-digit numbers. The digits can be repeated in a password and the last digit of a password is always greater than 2. What is the total number of unique passwords that the software can generate?

☐ A. 1,000

☐ B. 1,250

☐ C. 1,500

☐ D. 2,500

☒ E. 3,150

Quantitative Skills

Check My Answer

Show Correct Answer

Harsh alone can complete $\frac{2}{3}$ of a coding project in 6 days. Sumit alone can complete $\frac{1}{3}$ of the same project in 8 days and Mini can complete $\frac{3}{4}$ of the same project in 12 days. All of them started coding together. After 4 days, Harsh and Mini left the project. How many more days will be required by Sumit to complete the project?

☐ A. 2.33 days

☐ B. 2.67 days

☐ C. 3.33 days

☒ D. 3.67 days

☐ E. 4.33 days

Quantitative Skills

Check My Answer

Show Correct Answer

A shopkeeper had two types of flour. The price of Type 1 flour was Rs 42 per kg and the price of Type 2 flour was Rs 24 per kg. The shopkeeper mixed 25 kg of Type 2 flour with a certain amount of Type 1 flour. He sold the mixture at Rs 40 per kg and made a profit of 25%. What was the difference between the number of kilograms of Type 1 flour and the number of kilograms of Type 2 flour in the mixture sold by the shopkeeper?

- ☐ A. 3 kg
- ☐ B. 5 kg
- ☐ C. 6 kg
- ☐ D. 10 kg
- ☒ E. 12 kg

Directions: Refer to the following table(s) and answer the question alongside.

The table shows the percentage of LED bulbs that are non-defective, the percentage of CFL bulbs that are defective, and the percentage of all bulbs that are defective, for 5 different companies manufacturing them. (Note: Each company manufactures only two types of bulbs—LED bulbs and CFL bulbs.)

Company	LED non-defective	CFL defective	Overall defective
A	92%	4%	6%
B	96%	9%	5%
C	86%	5%	10%
D	83%	10%	13%
E	82%	6%	15%

What percentage of all bulbs manufactured by Company A are CFL bulbs?

- ☐ A. 25.0%
- ☐ B. 33.3%
- ☐ C. 50.0%
- ☐ D. 60.0%
- ☒ E. 75.0%

Directions: Refer to the following table(s) and answer the question alongside.

The table shows the percentage of LED bulbs that are non-defective, the percentage of CFL bulbs that are defective, and the percentage of all bulbs that are defective, for 5 different companies manufacturing them. (Note: Each company manufactures only two types of bulbs—LED bulbs and CFL bulbs.)

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C	86%	5%	10%
D	83%	10%	13%
E	82%	6%	15%

If the number of defective CFL bulbs manufactured by Company B and Company C are equal, then what is the ratio of the total number of bulbs manufactured by Company B to that manufactured by Company C?

- ☐ A. 16 : 25
- ☐ B. 64 : 81
- ☒ C. 81 : 64
- ☐ D. 81 : 100
- ☐ E. 100 : 81

Directions: Refer to the following table(s) and answer the question alongside.

The table shows the percentage of LED bulbs that are non-defective, the percentage of CFL bulbs that are defective, and the percentage of all bulbs that are defective, for 5 different companies manufacturing them. (Note: Each company manufactures only two types of bulbs—LED bulbs and CFL bulbs.)

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C	86%	5%	10%
D	83%	10%	13%
E	82%	6%	15%

If the total number of bulbs manufactured by Company D is 3,000, then what is the total number of non-defective bulbs manufactured by Company D?

- ☐ A. 2,310
- ☐ B. 2,490
- ☐ C. 2,595
- ☐ D. 2,610
- ☒ E. 2,790

Directions: Refer to the following table(s) and answer the question alongside.

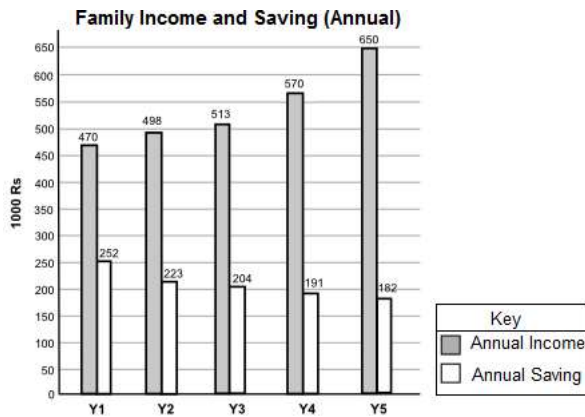
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Company	LED non-defective	CFL defective	Overall defective
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D	83%	10%	13%
E	82%	6%	15%

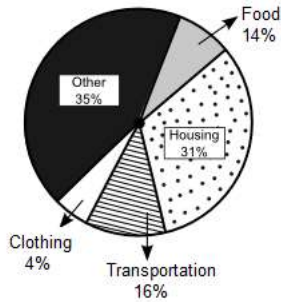
If the number of defective bulbs is the same for all the companies, what is the ratio of the number of non-defective bulbs manufactured by Company A, Company B and Company C (in the same order)?

- ☐ A. 37 : 27 : 17
- ☐ B. 47 : 17 : 7
- ☐ C. 47 : 57 : 27
- ☐ D. 57 : 27 : 17
- ☒ E. 67 : 37 : 7

Directions: Go through the given graphs and solve the question based on them.



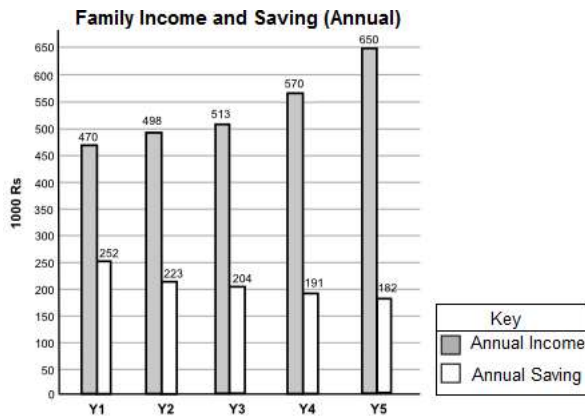
Average Annual Spending Breakup



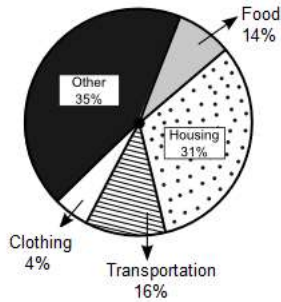
In which year did the family spend a total of exactly Rs 60,640 on transportation?

- ☒ A. Y1
- ☐ B. Y2
- ☐ C. Y3
- ☐ D. Y4
- ☐ E. Y5

Directions: Go through the given graphs and solve the question based on them.



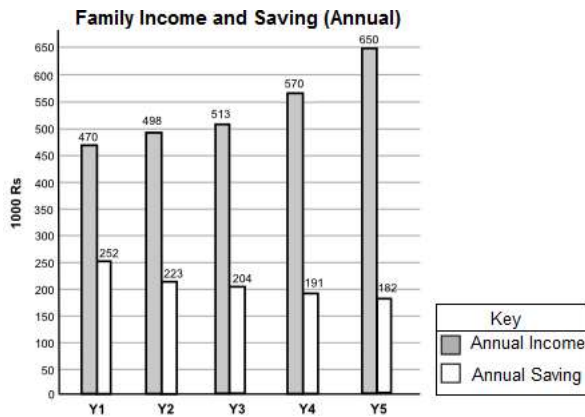
Average Annual Spending Breakup



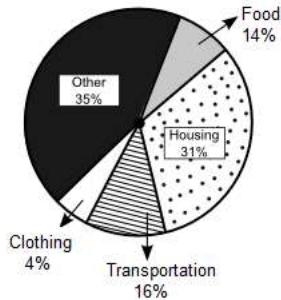
On which item did the family spend between Rs 1 lakh and Rs 1.2 lakh annually in Y4?

- ☐ A. Food
- ☐ B. Housing
- ☐ C. Transportation
- ☐ D. Clothing
- ☒ E. Other

Directions: Go through the given graphs and solve the question based on them.



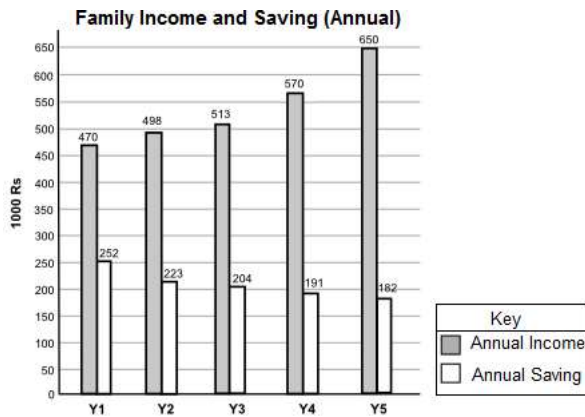
Average Annual Spending Breakup



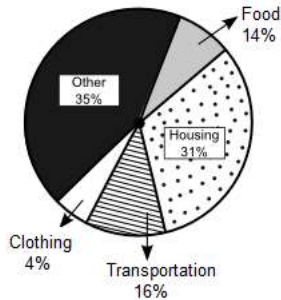
What was the total increase in the amount of money the family spent annually on buying food and clothing in Y2 over Y1?

- ☐ A. Rs 10,260
- ☐ B. Rs 20,520
- ☐ C. Rs 28,980
- ☐ D. Rs 39,240
- ☒ E. Rs 49,500

Directions: Go through the given graphs and solve the question based on them.



Average Annual Spending Breakup



The annual family spending in the year preceding Y1 was Rs 150,000. Which year recorded the lowest percentage increase in the annual family spending over the preceding year?

- ☐ A. Y1
- ☐ B. Y2
- ☐ C. Y3
- ☐ D. Y4
- ☒ E. Y5

Quantitative Skills

Check My Answer

Show Correct Answer

Directions: A question is followed by two statements, labelled (1) and (2). Using the information provided and general knowledge, decide whether the information given is sufficient to solve the problem.

Are the integers A and B co-primes?

- (1) The numbers A and B are the squares of two successive even numbers.
(2) Both A and B are distinct primes.

- ☐ 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.

Directions: Refer to the following table(s) and answer the question alongside.

The table shows the expenses (in dollars) per year of a new startup company, ABC Ltd.

Year	Primary Expenses				Secondary Expenses (% of total expenses)
	Employee Salary	Bonus (% of salary)	Rent	Marketing	
2010	20,000	6	3,800	15,000	20
2011	24,000	5	4,300	15,500	25
2012	25,000	4	4,500	14,500	16.67
2013	30,000	5	4,500	14,000	16.67
2014	30,000	6	5,200	15,000	20

What is the average primary expense incurred per year?

- ☐ A. 46,000 dollars
- ☐ B. 46,400 dollars
- ☐ C. 50,000 dollars
- ☐ D. 52,000 dollars
- ☒ E. 52,500 dollars

Directions: Refer to the following table(s) and answer the question alongside.

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2013	30,000	5	4,500	14,000	16.67
2014	30,000	6	5,200	15,000	20

In which year were the combined primary expenses the same as the previous year?

- ☐ A. 2011
- ☐ B. 2012
- ☐ C. 2013
- ☐ D. 2014
- ☒ E. It did not happen in any year.

Directions: Refer to the following table(s) and answer the question alongside.

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2013	30,000	5	4,500	14,000	16.67
2014	30,000	6	5,200	15,000	20

Which of the following is closest to the percentage change in total expenses from 2011 to 2012?

- ☐ A. 10%
- ☐ B. 15%
- ☐ C. 20%
- ☐ D. 23.33%
- ☒ E. 25%

Directions: Refer to the following table(s) and answer the question alongside.

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2013	30,000	5	4,500	14,000	16.67
2014	30,000	6	5,200	15,000	20

What are the total expenses in the year 2010?

- ☐ A. 10,000 dollars
- ☐ B. 25,000 dollars
- ☐ C. 40,000 dollars
- ☐ D. 50,000 dollars
- ☒ E. 60,000 dollars

Quantitative Skills

Check My Answer

Show Correct Answer

A group of 20 software engineers can finish a development project in 30 days. They got a project with the deadline of 35 days. After how many days should 5 engineers be released so that the project completes on time?

NOTE: Assume that all engineers work at the same rate and equal number of hours each day

☐ A. 5

☐ B. 8

☐ C. 10

☐ D. 12

☒ E. 15

Quantitative Skills

Check My Answer

Show Correct Answer

Directions: A question is followed by two statements, numbered (1) and (2). Using the information provided and general knowledge, decide whether the information given is sufficient to solve the problem.

How many students opted for Philosophy or Math?

1) Thrice as many students opted for Philosophy as Math.

2) 15 students opted for Math.

- ☐ 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.

Quantitative Skills

Check My Answer

Show Correct Answer

On selling 630 pens, a shopkeeper makes a profit equal to the selling price of 90 pens. Find the approximate profit percentage.

- ☐ A. 12.5%
- ☐ B. 14.28%
- ☐ C. 16.67%
- ☐ D. 20%
- ☒ E. 22.22%

Quantitative Skills

Check My Answer

Show Correct Answer

Consider the equation $y^2 - py + q$. If the roots of the given quadratic equation are a and b , find the equation whose roots are $(ab + a + b)$ and $(ab - a - b)$.

☐ A. $y^2 - 4y + p^2 = 0$

☐ B. $y^2 + yq^2 - p^2 = 0$

☐ C. $y^2 - 2y + q^2 + p^2 = 0$

☐ D. $y^2 + 2qy - q^2 - p^2 = 0$

☒ E. $y^2 - 2qy + q^2 - p^2 = 0$

Quantitative Skills

Check My Answer

Show Correct Answer

All the employees in a certain bank are either permanent employees or consultant employees. The number of permanent employees in the bank is 7 times the number of consultant employees in the bank. Which of the following cannot be the total number of employees in the bank?

☐ A. 40

☐ B. 48

☐ C. 54

☐ D. 64

☒ E. 128

Quantitative Skills

Check My Answer

Show Correct Answer

Using the letters from the word 'TRAPEZIUM', how many combinations 5 letters can be formed such that they have exactly 3 consonants?

☐ A. 120

☐ B. 600

☐ C. 3,600

☐ D. 4,800

☒ E. 7,200

Quantitative Skills

Check My Answer

Show Correct Answer

The probability that a child will be allowed to eat a chocolate bar is $\frac{2}{5}$ and the probability that the child will be allowed to eat an ice-cream cone is $\frac{7}{25}$. If these events are mutually exclusive, then what is the probability that the child will be allowed to eat a chocolate bar or an ice-cream cone?

☐ A. $\frac{14}{125}$

☐ B. $\frac{3}{25}$

☐ C. $\frac{7}{25}$

☒ D. $\frac{71}{125}$

☐ E. $\frac{17}{25}$

Quantitative Skills

Check My Answer

Show Correct Answer

A warehouse stores 345 litres of HCl, 120 litres of H_2SO_4 and 225 litres of NH_3 . What is the biggest size of the casks in which the acids can be stored?

☐ A. 10 litres

☐ B. 15 litres

☐ C. 25 litres

☐ D. 35 litres

☒ E. 40 litres

Quantitative Skills

Check My Answer

Show Correct Answer

An apple vendor sells 50% of his stock everyday. 10% of his stock gets spoiled overnight. After three nights he calculates that a total of 3,305 apples have spoiled. How many apples did he start out with on the first day? (Assume that he has purchased apples only on the first day.)

☐ A. 25,000

☐ B. 30,000

☐ C. 35,000

☒ D. 40,000

☐ E. 45,000

Quantitative Skills

Check My Answer

Show Correct Answer

The probability that it will rain tomorrow is $\frac{1}{4}$. The probability that Chris will be late to his office given that it does not rain tomorrow is $\frac{5}{6}$ and the probability that Chris will be late to his office given that it rains tomorrow is $\frac{2}{3}$. What is the probability that it will rain tomorrow, given that Chris is not late to his office?

☐ A. $\frac{2}{19}$

☐ B. $\frac{1}{9}$

☒ C. $\frac{1}{5}$

☐ D. $\frac{2}{5}$

☐ E. $\frac{5}{9}$

Quantitative Skills

Check My Answer

Show Correct Answer

By selling 20 items, a shopkeeper gains an amount equal to the selling price of 5 items. What is his percentage gain?

☐ A. $15\frac{2}{3}$

☐ B. $20\frac{2}{3}$

☐ C. $25\frac{2}{3}$

☐ D. $33\frac{1}{3}$

☒ E. $66\frac{2}{3}$

Quantitative Skills

Check My Answer

Show Correct Answer

The digital sum of a number is obtained by adding all the digits of a number until a single digit is obtained. What is the digital sum of 19^{100} .

☐ A. 1

☐ B. 4

☐ C. 7

☐ D. 9

☒ E. 12

Quantitative Skills

Check My Answer

Show Correct Answer

Directions: A question is followed by two statements, labelled (1) and (2). Using the information provided and general knowledge, decide whether the information given is sufficient to solve the problem.

What is the value of $a + b$?

(1) 'a' and 'b' are the roots of the equation $x^3 - 3x^2 + 5x - 9 = 0$.

(2) 'a' and 'b' are the roots of the equation $x^3 + 9x^2 + 27x + 27 = 0$.

- ☐ 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.

Quantitative Skills

Check My Answer

Show Correct Answer

The simple interest earned on investing \$P for 15 years at an annual interest rate of 15% is \$94,325 more than the simple interest earned by investing \$P for 9.5 years at an annual interest rate of 9.5%. What is the value of P?

☐ A. \$22,500

☐ B. \$45,044

☐ C. \$50,000

☐ D. \$70,000

☒ E. \$94,325

Quantitative Skills

Check My Answer

Show Correct Answer

If $\log_{(x+3)}(x+1) = 1 + \log_{(x+3)}4$, what is the value of x ?

☐ A. $\frac{-11}{3}$

☐ B. $\frac{-8}{3}$

☐ C. $\frac{-1}{3}$

☐ D. 1

☒ E. No real value of x is possible

Logical Reasoning

Check My Answer

Show Correct Answer

There were 333 species of birds found in between three countries. Among these 333 species, 300 were common to all three countries. A total of 30 species were found to be common between any two countries, while a total of 3 were found to be unique to the three countries. The number of species found in the three countries was equal. Which of the following statements is true?

- ☒ A. One of the countries has 3 unique species.
- ☐ B. One of the countries has 2 unique species.
- ☐ C. There are 20 species common to two countries.
- ☐ D. One of the countries does not have a unique species.
- ☐ E. There is one unique species for each of the three countries.

Logical Reasoning

Check My Answer

Show Correct Answer

Directions: In the question given, a statement is followed by a few arguments. Decide which option of the arguments support the statement.

Statements: To generate new employment opportunities, empowering the youth to emerge as entrepreneurs with the required skills is necessary. Observational studies show that fewer young people are among the new entrepreneurs. Therefore, it is important to inspire many more youths to become entrepreneurs. To achieve this, should entrepreneurship be introduced as a subject in high school to help students pursue entrepreneurship and develop the confidence of facing the challenges associated with a venture?

Arguments:

- I. Yes. Education can help empower the youth by bringing out the hidden talents and abilities they are born with so that they realise their true potential.
- II. Yes. People who become entrepreneurs often learn perseverance and self-confidence through the failures they experience in their ventures.
- III. Yes. Entrepreneurship skills can be learnt and practised if the teachers adopt the required exercises to promote the skills.

- ☒ A. Only argument I is strong.
- ☐ B. Only argument II is strong.
- ☐ C. Only argument III is strong.
- ☐ D. Only arguments I and II are strong.
- ☐ E. Only arguments II and III are strong.

Logical Reasoning

Check My Answer

Show Correct Answer

Stress can cause serious physical and mental ailments. Human beings cannot avoid stress but everyone can successfully manage it through physical exercise. Studies have shown that regular physical exercise helps develop better concentration and alertness, and reduces stress. In fact, physical working out boosts the production of 'feel-good' hormones such as Serotonin and Endorphins, which reduce the stress levels in the body.

Which of the following, if true, most weakens the argument above?

- ☒ A. A balanced diet and regular physical exercise help increase the production of Endorphins.
- ☐ B. Exercise reduces stress-induced anxiety, thus helping manage depression and anxiety disorders.
- ☐ C. Regular physical activity helps lower blood pressure and cholesterol levels, thereby reducing the risk of heart attack.
- ☐ D. Different people respond differently to physical activities, so the effects of exercise on the stress levels may vary among individuals.
- ☐ E. Exercise improves overall mental health and leads to sharper memory and cognitive abilities.

Logical Reasoning

Check My Answer

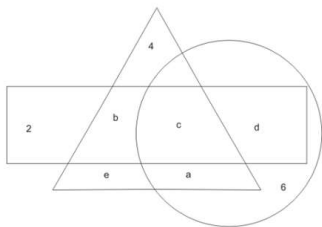
Show Correct Answer

Kaira's grandfather purchased a typewriter which was one of the first 100 German-made modern typewriters. It was used to type important messages during World War I. In the year 2008, Kaira's daughter auctioned this antique typewriter and it fetched a whopping \$0.78 million on the EFM auction website. Similarly, a rare postage stamp from the year 1865, sold by John, was also among the top grossers on the EFM auction website. The EFM auction website has become very successful in the last 5 years and it charges a commission of 10 percent on every item sold through it.

Which of the following options can be inferred from the above statement?

- ☒ A. Kaira's daughter lives in Germany.
- ☐ B. Rare items can generate a significant amount of money.
- ☐ C. The EFM auction website is charging too much commission.
- ☐ D. Auction is a new method of selling introduced by the EFM website.
- ☐ E. Only Germans were able to use typewriters during the First World War.

Directions: Answer the question based on the following Venn diagram. The overlapped area suggests the product of the numbers of each figure in the diagram.



The value of which of the following is the maximum?

- ☒ A. a
- ☐ B. b
- ☐ C. c
- ☐ D. d
- ☐ E. e

Logical Reasoning

Check My Answer

Show Correct Answer

Directions: Given statement(s) is/are followed by a number of conclusions. Assume the given statement(s) to be true, even if they seem to be at variance from the commonly known facts. Read all the conclusions and decide which one logically follows from the given statement(s).

Statements: To be able to dance '*en pointe*' or on the tips of the toes is an ambition that almost all ballet dancers desire to harness. Perfection comes with years of practice, adequate bone strength, which does not develop until adolescence, and flexibility. It is indeed hard work and requires right body posture, balance and a strong knowledge of ballet techniques. Some ballet dancers, however, can never dance '*en pointe*' because of the bone structure of their foot.

Conclusions:

- I. Dancers must seek proper training before trying to attempt this form of ballet.
- II. Pre-adolescent children should not be made to do '*en pointe*' dancing since their bones may not be strong.
- III. Ballet dancers who do not have an ideal bone structure to dance '*en pointe*' should seek surgical help to achieve their life goals.

- ☒ A. Only conclusion I follows.
- ☐ B. Only conclusion II follows.
- ☐ C. Only conclusion III follows.
- ☐ D. Only conclusions I and II follow.
- ☐ E. Only conclusions II and III follow.

Directions: A statement is followed by courses of action. A course of action is a step or administrative decision to be taken for improvement, follow-up, or further action in regard to the problem, policy, etc., on the basis of the information given in the statement. Assuming everything in the statement to be true, you have to decide which of the suggested courses of action should be logically pursued.

Statement: The economy of City X is dependent on tourism. This city suffers from shortages of water during the dry season because the underground water level goes down and no alternative water-supply arrangement that is currently in place is adequate for the day-to-day needs of the city. Some nearby areas, though, have abundant reserves of usable water.

Courses of Action:

- I. Rainwater harvesting should be encouraged among city dwellers to help replenish the groundwater.
- II. Tourism should be banned in the dry season to reduce the need for water as tourist activities require a lot of water.
- III. Water supply should be stopped to areas which does not generate much revenue to maintain regular water supply to tourist places.
- IV. Pipelines should be constructed to maintain an adequate supply of water from outside the city.

- ☒ A. Only I and III follow.
- ☐ B. Only I and IV follow.
- ☐ C. Only II and IV follow.
- ☐ D. Only III and IV follow.
- ☐ E. Only I, III and IV follow.

Logical Reasoning

Check My Answer

Show Correct Answer

Directions: Given statement(s) is/are followed by a number of assumptions. An assumption is something supposed or taken for granted. Read all the assumptions and decide which one is implicit in the given statement(s).

Who wouldn't enjoy a comedy film?!

What are the assumptions implicit in the above exclamation?

- ☒ A. Everyone watches movies.
- ☐ B. Comedies are worth being enjoyed by everyone.
- ☐ C. There are at least some people who enjoy comedies.
- ☐ D. Nobody watches movies of a genre other than comedy.
- ☐ E. Comedies are the only genre on which movies are made.

Directions: A computer program converts an input into a sequential output. The following example illustrates the operations, based on which the following questions have to be solved.

Input	28	16	54	12
Step 1	110	77	99	33
Step 2	12	21	27	9
Step 3	1320	1617	2673	297
Step 4	3	7	7	9
Step 5	1445	1722	2806	348

If the input is 17, then what is the output of Step 5?

- ☒ A. 1632
- ☐ B. 1884
- ☐ C. 2086
- ☐ D. 2226
- ☐ E. 2684

Directions: A computer program converts an input into a sequential output. The following example illustrates the operations, based on which the following questions have to be solved.

Input	28	16	54	12
Step 1	110	77	99	33
Step 2	12	21	27	9
Step 3	1320	1617	2673	297
Step 4	3	7	7	9
Step 5	1445	1722	2806	348

If the input is 22, then what is the output of Step 3?

- ☒ A. 528
- ☐ B. 535
- ☐ C. 615
- ☐ D. 825
- ☐ E. 865

Directions: A computer program converts an input into a sequential output. The following example illustrates the operations, based on which the following questions have to be solved.

Input	28	16	54	12
Step 1	110	77	99	33
Step 2	12	21	27	9
Step 3	1320	1617	2673	297
Step 4	3	7	7	9
Step 5	1445	1722	2806	348

If the input is 29, then which step has a value of 15?

- ☐ A. Step 1
- ☐ B. Step 2
- ☐ C. Step 3
- ☐ D. Step 4
- ☒ E. Step 5

Directions: A computer program converts an input into a sequential output. The following example illustrates the operations, based on which the following questions have to be solved.

Input	28	16	54	12
Step 1	110	77	99	33
Step 2	12	21	27	9
Step 3	1320	1617	2673	297
Step 4	3	7	7	9
Step 5	1445	1722	2806	348

If the input is 25, then its steps match with which of the input elements of the illustrated example?

- ☐ A. 12
- ☐ B. 16
- ☐ C. 28
- ☒ D. 54
- ☐ E. None of the above

Directions: A computer program converts numbers into numeric code in five steps as shown for the six example inputs below. Study the pattern in the table given below and then answer the questions that follow

Input	9	25	49	16	1	81
Step I	3	5	7	4	1	9
Step II	11	17	23	14	5	29
Step III	14	22	30	18	6	38
Step IV	30	46	62	38	14	78
Step V	5	7	9	6	3	11

Which of the following sequence of inputs will give the sequence of corresponding outputs of 13, 15, 16, 17, 18 and 19 at Step V?

- ☐ A. 22, 24, 25, 26, 27, 99
- ☐ B. 25, 35, 67, 82, 91, 89
- ☐ C. 100, 103, 130, 143, 153, 200
- ☐ D. 102, 145, 154, 176, 191, 201
- ☒ E. 121, 169, 196, 225, 256, 289

Logical Reasoning

Check My Answer

Show Correct Answer

Directions: A computer program converts numbers into numeric code in five steps as shown for the six example inputs below. Study the pattern in the table given below and then answer the questions that follow

Input	9	25	49	16	1	81
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Step I	3	5	7	4	1	9
Step II	11	17	23	14	5	29
Step III	14	22	30	18	6	38
Step IV	30	46	62	38	14	78
Step V	5	7	9	6	3	11

Due to a machine malfunction, if Step 2 of an output series got written backwards, with the last element appearing first and the first element appearing last, and it read 44, 38, 32, 26, 14, 8, then what was the input series?

- ☐ A. 196, 144, 100, 64, 16, 4
- ☐ B. 4, 16, 36, 64, 100, 144
- ☐ C. 9, 81, 64, 100, 144, 196
- ☐ D. 4, 16, 64, 100, 144, 196
- ☒ E. 144, 100, 64, 36, 16, 4

Directions: A computer program converts numbers into numeric code in five steps as shown for the six example inputs below. Study the pattern in the table given below and then answer the questions that follow

Input	9	25	49	16	1	81
Step I	3	5	7	4	1	9
Step II	11	17	23	14	5	29
Step III	14	22	30	18	6	38
Step IV	30	46	62	38	14	78
Step V	5	7	9	6	3	11

If the output at Step V is 15, the what could be the input to the program?

- ☐ A. 100
- ☐ B. 123
- ☐ C. 131
- ☐ D. 152
- ☒ E. 169

Directions: A computer program converts numbers into numeric code in five steps as shown for the six example inputs below. Study the pattern in the table given below and then answer the questions that follow

Input	9	25	49	16	1	81
Step I	3	5	7	4	1	9
Step II	11	17	23	14	5	29
Step III	14	22	30	18	6	38
Step IV	30	46	62	38	14	78
Step V	5	7	9	6	3	11

If the input to the program is 64, then what will be the output at Step V?

- ☐ A. 2
- ☐ B. 4
- ☐ C. 6
- ☐ D. 8
- ☒ E. 10

Logical Reasoning

Check My Answer

Show Correct Answer

In a report released by Hospital X, the data shows that about 90,000 men and 79,000 women are diagnosed with lung and bronchial cancer every year. It also suggests that while these numbers are declining in men, there has been an increase in the incidence of lung cancer in women. The report goes on to say that mortality is higher for lung cancer than for breast cancer among women.

Which of the following is best concluded from the above passage?

- ☐ A. The doctors at Hospital X are the most skilled.
- ☐ B. Hospital X has a good record of curing cancer patients.
- ☐ C. Apart from Hospital X, no other hospital treats lung cancer patients.
- ☐ D. Hospital X specialises in the research and treatment of respiratory cancers.
- ☒ E. The doctors at Hospital X receive regular training to keep up with the latest developments in medical research around lung cancer.

Logical Reasoning

Check My Answer

Show Correct Answer

There were four boxes—large, medium, small and tiny—of different colours—white, black, red and rust—in no particular order. They were each made of either—plastic, silver, wood or brass—and they stored either—needles, odd stuff, earrings or buttons.

Some more information that was known about them is as follows.

- The white box was not made of silver or wood—it was not medium or large.
- The brass box had some odd stuff and it was not white or red.
- The wooden box was small and the tiny box stored needles in it.
- The medium, silver box that was not rust or red coloured did not have buttons.

Which of the following combinations is correct?

- ☐ A. White, plastic, needles, tiny
- ☐ B. Red, brass, odd stuff, large
- ☐ C. Rust, wood, odd stuff, large
- ☐ D. White, silver, earrings, medium
- ☒ E. Black, wood, buttons, medium

Logical Reasoning

Check My Answer

Show Correct Answer

There were four boxes—large, medium, small and tiny—of different colours—white, black, red and rust—in no particular order. They were each made of either—plastic, silver, wood or brass—and they stored either—needles, odd stuff, earrings or buttons.

Some more information that was known about them is as follows.

- The white box was not made of silver or wood—it was not medium or large.
- The brass box had some odd stuff and it was not white or red.
- The wooden box was small and the tiny box stored needles in it.
- The medium, silver box that was not rust or red coloured did not have buttons.

What was the colour of the box that stored earrings?

☐ A. Red

☐ B. Rust

☐ C. Black

☒ D. White

☐ E. Cannot be determined

Logical Reasoning

Check My Answer

Show Correct Answer

There were four boxes—large, medium, small and tiny—of different colours—white, black, red and rust—in no particular order. They were each made of either—plastic, silver, wood or brass—and they stored either—needles, odd stuff, earrings or buttons.

Some more information that was known about them is as follows.

- The white box was not made of silver or wood—it was not medium or large.
- The brass box had some odd stuff and it was not white or red.
- The wooden box was small and the tiny box stored needles in it.
- The medium, silver box that was not rust or red coloured did not have buttons.

What did the plastic box store?

- ☒ A. Odd stuff
- ☐ B. Needles
- ☐ C. Buttons
- ☐ D. Earrings or buttons
- ☐ E. Cannot be determined

Logical Reasoning

Check My Answer

Show Correct Answer

There were four boxes—large, medium, small and tiny—of different colours—white, black, red and rust—in no particular order. They were each made of either—plastic, silver, wood or brass—and they stored either—needles, odd stuff, earrings or buttons.

Some more information that was known about them is as follows.

- The white box was not made of silver or wood—it was not medium or large.
- The brass box had some odd stuff and it was not white or red.
- The wooden box was small and the tiny box stored needles in it.
- The medium, silver box that was not rust or red coloured did not have buttons.

What was the size of the rust coloured box?

- ☐ A. Tiny
- ☐ B. Large
- ☒ C. Small
- ☐ D. Medium
- ☐ E. Cannot be determined

Logical Reasoning

Check My Answer

Show Correct Answer

A team leader has left the company and the manager urgently needs to put a replacement in place. A precious amount of time in the project has already been lost and the product launch has already been announced by the client. Stakes are high and time is at a premium. Besides, the team which comprises of very highly skilled individuals is becoming edgy due to the sheer pressure.

What decision should the manager take if they have to choose between a person with very high people management and interpersonal skills and a person known to be short-tempered but highly skilled in multiple domains to be used in the project?

- ☒ A. Choose the person with multiple domain expertise-different team members would need support in different domains to complete the work.
- ☐ B. Choose the person with people management skills-both the team and the client would need high levels of engagement.
- ☐ C. Choose the person with multiple domain expertise-the team would need such a person, should anyone else leave.
- ☐ D. Choose the person with multiple domain expertise-a lot of time has already been lost and time is at a premium.
- ☐ E. Choose neither-you need to seek HR intervention, advertise and get someone else recruited at the earliest.

Logical Reasoning

Check My Answer

Show Correct Answer

Directions: A statement is followed by courses of action. A course of action is a step or administrative decision to be taken for improvement, follow-up, or further action in regard to the problem, policy, etc., on the basis of the information given in the statement. Assuming everything in the statement to be true, you have to decide which of the suggested courses of action should be logically pursued.

Statement: An increase in the number of personally owned vehicles and people ignoring traffic rules is causing frequent traffic jams on the road connecting City A and City B during peak hours.

Courses of Action:

- I. Traffic police should take action against traffic rule violators who disrupt traffic.
- II. People should be restricted to work in their own cities to reduce the number of daily commuters between cities.
- III. Services of public transport should be improved and be made affordable to encourage people to use them.
- IV. Daily commuters should be forced to relocate to places close to their workplaces.

- ☒ A. Only I and II follow.
- ☐ B. Only I and III follow.
- ☐ C. Only II and IV follow.
- ☐ D. Only III and IV follow.
- ☐ E. Only II, III and IV follow.

Logical Reasoning

Check My Answer

Show Correct Answer

Ron retired last year and was diagnosed with diabetes a month later. He thinks that his eyesight got worse within a year of wearing glasses. He says that, "Before, I only wore glasses when reading, but now I need glasses even to shave or comb my hair."

Which of the following would most weaken this argument?

- ☒ A. Many old people like wearing glasses even when they do not need them.
- ☐ B. People suffering from diabetes should take extra precautions when wearing glasses.
- ☐ C. Many old people have reported their eyesight going from bad to worse after wearing glasses.
- ☐ D. Many old people do not like wearing glasses and will always find excuses for not wearing them.
- ☐ E. Diabetes leads to problems like blurry vision, cataracts and glaucoma, which may result in poor vision or even loss of vision.

Logical Reasoning

Check My Answer

Show Correct Answer

'Xerostomia' or 'Dry Mouth' is caused when the mouth does not produce enough saliva. In such a condition, certain micro-organisms grow rapidly inside the mouth that often cause bad breath. The lack of saliva production also results in food particles in the mouth getting stuck to the teeth. Coffee, which has a high concentration of caffeine, is known to decrease the production of saliva in the mouth.

Which of the following can be inferred from the above statement?

- ☒ A. Drinking de-caffeinated coffee ensures that one does not have bad breath.
- ☐ B. Dry mouth or Xerostomia is the only major cause for bad breath, but that can be overcome.
- ☐ C. The lack of production of saliva in the mouth leads to poor digestion that causes bad breath.
- ☐ D. Dry mouth is caused by the bacteria and fungi that do not get washed away and digested by the body.
- ☐ E. Drinking coffee can contribute to the problem of dry mouth, which in turn may lead to bad breath.

Logical Reasoning

Check My Answer

Show Correct Answer

Directions: In this question, some statements are given followed by some conclusions. Assume the given statements are true, even if they seem to be at variance from commonly known facts. Choose the conclusions that logically follow from the given statements.

Statements:

- (1) Everyone who reached the venue by 4:00 p.m. attended the cultural event, which was held between 4:00 p.m. and 6:00 p.m.
- (2) Of the members of Amy's family, only those above the age of 18 could attend the cultural event.
- (3) Evelyn is 20 years older than Amy and Evelyn reached the venue at 5:00 p.m.

Conclusions:

- (1) Evelyn could be 45 years old and she reached the venue before the cultural event ended.
- (2) Evelyn could be a member of Amy's family and she attended the cultural event.
- (3) Amy and Evelyn belong to the same family and they reached the venue at different times.
- (4) It could be that Evelyn is a member of Amy's family and Evelyn did not attend the cultural event.

- ☐ A. Only (2)
- ☒ B. Only (3)
- ☐ C. Only (4)
- ☐ D. Only (1) and (2)
- ☐ E. Only (1) and (4)

Logical Reasoning

Check My Answer

Show Correct Answer

Directions: Given statement(s) is/are followed by a number of conclusions. Assume the given statement(s) to be true, even if they seem to be at variance from the commonly known facts. Read all the conclusions and decide which one logically follows from the given statement(s).

Houses can be made with both steel and timber. Steel is a strong building material, but it cannot be considered ideal for making external structures of houses, because it is a good conductor of heat. So, it would get heated and cool down quickly, if there are sudden weather changes. Timber is a better material for making insulation panels for the walls and roofs, but it is not as strong as steel. Therefore, it is a less preferred material for making the central structure.

Which of the following expresses the main point of the argument?

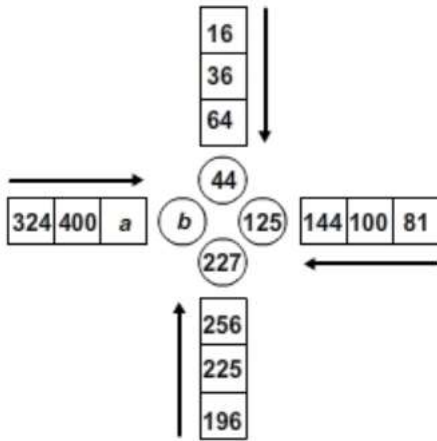
- ☒ A. A good construction material should absorb heat slowly and cool down quickly.
- ☐ B. The external structure of houses need not be strong and durable if there are other security measures taken, such as installation of cameras, etc.
- ☐ C. The combination of steel and timber can be great in making houses, so one can keep the physical characteristics of both the material in mind.
- ☐ D. A material other than steel or timber should be used for making houses, as neither of these are absolutely fit for all seasons.
- ☐ E. Steel should be chosen as the preferred building material because it is stronger and security is always of utmost importance.

Logical Reasoning

Check My Answer

Show Correct Answer

Each number in a circle is obtained by performing certain operations on the numbers given in the row or column corresponding to the circle. According to the pattern, which of the following is equal to the value of $a - b$?



- ☐ A. 19
- ☒ B. 29
- ☐ C. 67
- ☐ D. 76
- ☐ E. 158

Logical Reasoning

Check My Answer

Show Correct Answer

A detox diet is often purported as a great way to flush out toxins from the body. It even promises glowing skin and weight loss, but there is no evidence of how much it may eliminate toxins, because our body has its own clever mechanism of getting rid of toxins. If it were not so, we would all be sick most of the time. What is true, however, is that detox diet is certainly a break between unhealthy eating and healthy eating habits.

The statements above, if true, most strongly support which of the following inferences?

- ☒ A. Detox diets and drinks are often gimmicks employed by nutritionists.
- ☐ B. Removal of toxins by the body does improve and expedite with a detox diet.
- ☐ C. The human body has its own self-cleaning mechanism, so detox diet is inadvisable.
- ☐ D. There is no truth in the claims of health benefits of a detox diet made by nutritionists.
- ☐ E. Detox diets can promote healthy eating habits, but are not a quick fix to health issues.

Logical Reasoning

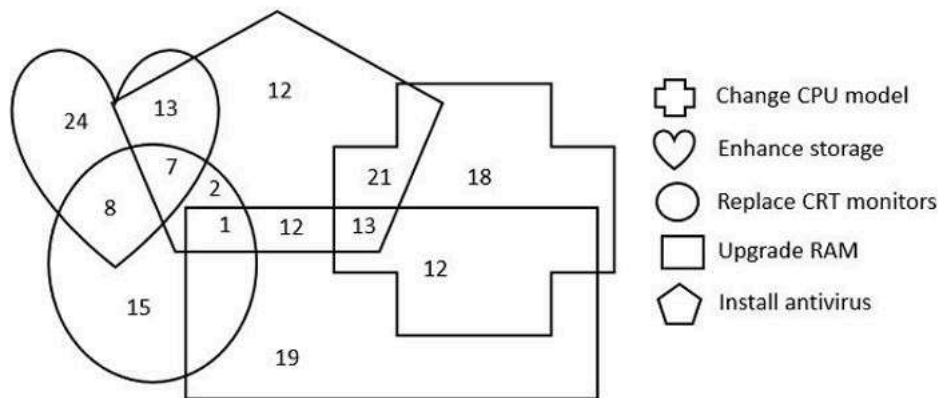
Check My Answer

Show Correct Answer

"You have a big car. You should try and reach the venue in time to avoid parking woes." said Raj to Kabir.
What is being assumed in the above statement?

- ☐ A. Small cars would also have parking issues.
- ☐ B. Big cars would have parking issues at the venue.
- ☐ C. Big cars arriving late at the venue would have parking issues.
- ☒ D. Even if Kabir were to arrive early, he would have parking issues due to the size of his car.
- ☐ E. If Kabir were to come in a small car, he would not have have parking issues due to the size of his car.

An IT company was planning to upgrade all its computers to a certain standard. From the following figure, find out how many systems need to install an antivirus and upgrade the RAM and enhance the storage but do not need to change the CPU model and replace the CRT monitor?



- ☒ A. 12
- ☐ B. 13
- ☐ C. 19
- ☐ D. 25
- ☐ E. 30

Logical Reasoning

Check My Answer

Show Correct Answer

Direction: In the given question, a statement is followed by a few arguments. Decide which option(s) of the arguments support the statement.

Statement: Organic farming uses natural manure and techniques like crop rotation and mixed cropping and prohibits or limits usage of synthetic substances for growing crops. Should organic farming be encouraged over conventional, chemical agriculture?

Arguments:

- I. No. Organic food products are expensive and not everyone can afford them because the farming standards are high.
- II. No. Switching from conventional farming often requires a difficult adjustment period while one waits for the soil to become free of synthetic pesticide and fertiliser residues.
- III. Yes. Organic farming conserves the bio-diversity and helps in effective soil management.

- ☒ A. Only argument I is strong.
- ☐ B. Only argument II is strong.
- ☐ C. Only argument III is strong.
- ☐ D. Only arguments I and II are strong.
- ☐ E. Only arguments II and III are strong.

Logical Reasoning

Check My Answer

Show Correct Answer

A certain college X is struggling with the problem of unpunctuality among its faculty members. The administrative department has conducted a meeting with the faculty members to implement strict office timings for all the members. However, despite conducting the meeting and sending several written reminders, some of the faculty members are still not following the regular timings. What decision should the administrative department take to help the faculty members adhere to the regular office timings?

- ☐ A. The administrative department should paste the list of unpunctual faculty members on the notice board, so that they become conscious about their unpunctuality.
- ☐ B. The administrative department should ask the faculty members who are late to take a leave for that day and come on time from the next day onwards.
- ☐ C. The administrative department should announce substantial additional monetary benefits in the monthly salary of those faculty members who remain punctual for the entire month
- ☐ D. The administrative department should ask the punctual faculty members to counsel the latecomers and tell them to change the balance in their personal and professional life.
- ☒ E. The administrative department should recognise the faculty members who are always punctual and provide non-monetary privileges to them.

Logical Reasoning

Check My Answer

Show Correct Answer

Schools should provide holistic education rather than only academic excellence, so that the students grow up to become responsible citizens. The argument above assumes that

- ☐ A. Responsible citizens are assets for the country.
- ☐ B. Good schools strive to provide holistic education.
- ☒ C. Being good in academics is an essential quality of a good citizen.
- ☐ D. Only academic excellence is not sufficient to grow into good citizens.
- ☐ E. To grow up to be a responsible citizen, one has to have a balanced grooming at the schooling stage.

Logical Reasoning

Check My Answer

Show Correct Answer

Certain candles are placed sequentially on Sonia's birthday cake. The candle which is at the 7th position from the red candle on Sonia's birthday cake is actually the 12th position from the left end. The red candle has an odd number of candles on its right and a candle less on its left. If Sonia's age is equivalent to the number of candles on the cake, then what is Sonia's age?

☒ A. 31

☐ B. 33

☐ C. 36

☐ D. 38

☐ E. 42

Logical Reasoning

Check My Answer

Show Correct Answer

Directions: Given statement(s) is/are followed by a number of conclusions. Assume the given statement(s) to be true, even if they seem to be at variance from the commonly known facts. Read all the conclusions and decide which one(s) logically follow(s) from the given statement(s).

Statement:

The new galaxy that was accidentally discovered by the Hubble Space Telescope is estimated to be $\frac{1}{30}$ of the size of the Milky Way. Its age, estimated at 13 billion years old, is making it the astronomical equivalent of a living fossil.

Conclusions:

- I. Astronomical objects are discovered accidentally.
- II. Astronomical objects can be categorised as fossils.
- III. The Hubble Space Telescope is the first space telescope on a mission to photograph the universe.

- ☐ A. Only Conclusion I follows.
- ☐ B. Only Conclusion II follows.
- ☐ C. Only Conclusion III follows.
- ☐ D. Both Conclusions I and II follow.
- ☒ E. Both Conclusions II and III follow.