

SBI PO PRELIMS MODEL PAPER 1

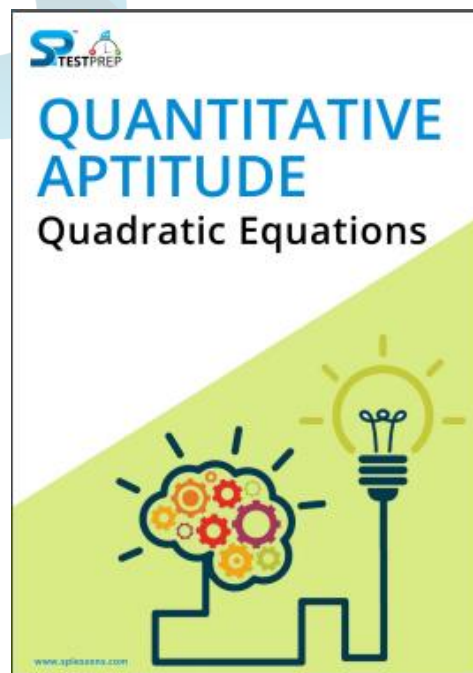
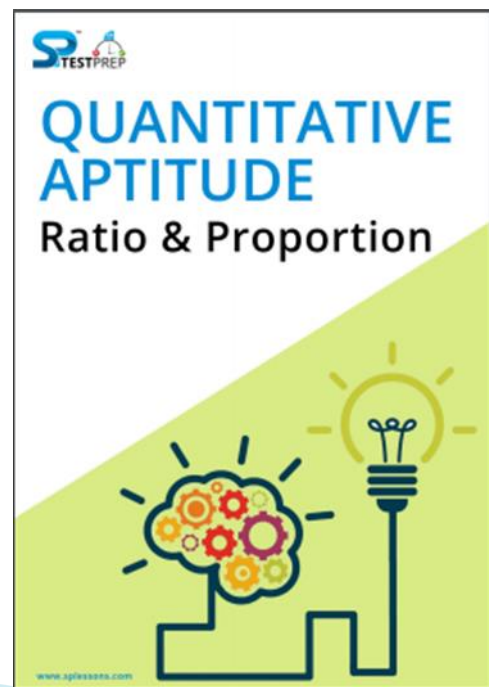
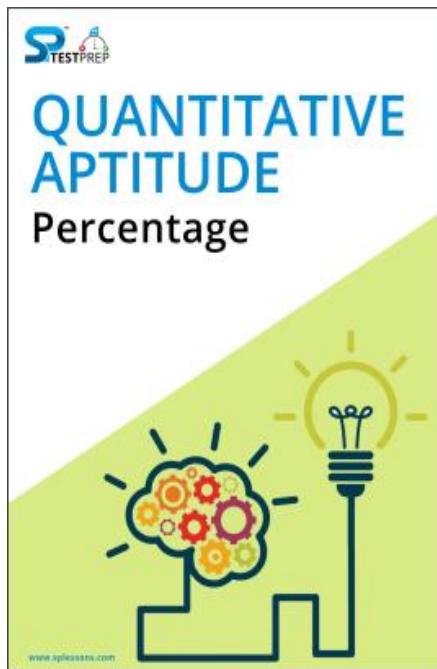
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1. Direction: In this question, two columns I and II and three sentences are given, which are divided into two parts. Column I (A, B and C) consists of first half of each sentence and Column II (D, E and F) consists of second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct.

- i.
- A. Most farmers depend on
 - B. It is important to plan recruitments in advance
 - C. As the city has experienced a continuous downpour
- ii.
- D. For the past two days, the condition of the roads has deteriorated.
 - E. A rather than waiting until a vacancy occurs.
 - F. urban markets to secure their livelihoods
- A. B-E and C-F
 - B. A-E, B-F and C-D
 - C. A-F and C-D
 - D. B-F
 - E. A-E and C-F

Answer: C

Explanation: We have to join two parts of a sentence in a way that they form a meaningful and grammatically correct sentence. In the given question A joins with F and C joins with D to make correct sentences. F tells what the farmers depend on, thus completing

A. D tells the duration and the consequence of the Downpour in the city, thus logically completing C. Contextually, B and E may join, only if the article 'a', with which E starts, is omitted. The presence of 'a' makes the sentence

2. Direction: In this question, two columns I and II and three sentences are given, which are divided into two parts. Column I (A, B and C) consists of first half of each sentence and Column II (D, E and F) consists of second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct.

- i.
- A. What you see typically in a workplace that
 - B. You may be well equipped to go for an excursion
 - C. More often than not it is the PR that is responsible
- ii.
- D. But that doesn't safeguard from all possible hurdles in your journey.
 - E. Only a few people shoulder most responsibilities. for the image and valued of a celebrity
- A. B-D
 - B. A-E and C-F
 - C. CE
 - D. A-E, B-F and C-D
 - E. C- D and A- F

Answer: A

Explanation:

Contextually speaking, A can connect E, but the

Two if joined will make a grammatically incorrect sentence. A intends to state a fact and not make a comparison, thus the usage of "fewer" is incorrect.

Moreover, "a fewer" is never used in a comparative sentence, "fewer" (used when discussing countable things) is the correct word to be used in such cases. Thus, to make E

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correct, “a fewer” should be replaced by “a few”. Similar to A and E, C and F can be connected contextually, but they would form a grammatically incorrect statement, if joined. C states what the PR is responsible for and F states features in relation to the celebrities. So both the words should be nouns “Image” is a noun, but is an adjective after which a noun is missing. Hence, it should be changed to “valued” in order to make the sentence grammatically correct. B and D join to form a meaningful as well as a grammatically correct sentence. B contains arguments, and D, with the usage of the conjunction “but” states a counter-argument.

3. Direction: In this question, two columns I and II and three sentences are given, which are divided into two parts. Column I (A, B and C) consists of first half of each sentence and Column II (D, E and F) consists of second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct.

- A. Determining and planning your staff
 - a. needs
- B. The study documents the impacts of corruption
- C. Acquiring quality certificates and patent is
- D. Is crucial for run the department effectively?
- E. A must for business in order for them to safeguard their products.
- F. For both smaller and larger sized firms.
 - A. B-F and C-E
 - B. A-D and C-D
 - C. C-D and A-
 - D. B- D D.
 - E. C-E

Answer: D

Explanation:

Let's follow the process of elimination to get the correct answer. Note that D uses the word “run” incorrectly. Since it is preceded by a preposition, the gerund form “running” should be used. Hence none of the parts in the first column can combine with D. This eliminates options B, C and E. Now, note that F is also grammatically correct as rather than being in the comparative degree, the adjectives in this part should be in the positive degree to appropriately join with B. Also, if B has to be joined with F, the preposition “for” in F should be changed to “on” (since the verb “impact” is there). Left with option D, and B and E appropriately join together to make a meaningful and grammatically correct sentence.

4. Direction: In this question, two columns I and II and three sentences are given, which are divided into two parts. Column I (A, B and C) consists of first half of each sentence and Column II (D, E and F) consists of second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct.

- A. A skilled supervisor is an effective communicator
- B. The fundamental right to asylum for
- C. They had long suspected the existence of a neutral atomic
- D. Particles, the neutron, which James Chadwick found in 1932.
- E. problem-solving and employee motivating
- F. For the politically persecuted knows no upper limit.
 - A. A-E and B-D
 - B. A-F, A-E and B- D

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- C. B-F
- D. C- D
- E. C-D and B-F

Answer: C

Explanation:

A could connect with E, but the elements would not be parallel. A supervisor can be a communicator (noun), thus, he should be a problem-solver and motivator. Thus, the present continuous tense should be replaced by nouns. C could have appropriately connected with D, but since 'a neutral particle' is a singular noun, the plural "particles" is incorrect. It should be particle instead. B and F when joined make a meaningful and grammatically correct sentence.

5. **Direction:** The given sentences, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a letter. Choose the most logical order of the sentences from among the five given choices to construct a coherent paragraph keeping 1 as the first statement. Worthless currency is not necessarily useless.

- A. It can be a pointed way of shaming someone who asks for a bribe.
- B. The members of the 5th pillar, the group which founded the anti-bribery campaign that launched the notes, calls them a non-violent weapon of non-co-operation.
- C. They look roughly like 50 rupee notes and people are encouraged to hand them to corrupt officials, signalling resistance to sleaze.
- D. That is the thinking behind zero rupee notes, an anti-corruption Indian gimmick now attracting worldwide interest.

A. BDAC

- B. ADCB
- C. CDAB
- D. DABC
- E. ACDB

Answer: B

Explanation: The first sentence talks about worthless currency. Statement A uses the word 'it' to refer to the worthless currency and hence should follow 1. Statement D refers to the use of a worthless currency and hence follows A. The use of 'they' in C refers to the zero rupee notes mentioned in D and thus, C should come after D. what follows is what is

left i.e. B.

6. **Direction:** The given sentences, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a letter. Choose the most logical order of the sentences from among the five given choices to construct a coherent paragraph keeping 1 as the first statement besides the loss of life, infrastructure destruction is by far the most obvious type of damage that comes to mind when we think about natural disasters.

- A. Reuters reported that after a series of earthquakes hit Japan, factories of manufacturers like Sony, Honda, and Toyota were closed.
- B. Thus, one of the biggest problems for area affected by natural disasters is business disruption.
- C. In today's increasingly interconnected economy, the economic fallout from a natural disaster is rarely relegated to the geographic area that it hits; in fact, even natural disasters that take place thousands of miles away can shake up your portfolio here at home.

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D. With road, communication infrastructure, and building damage common after sizable disasters, it's not uncommon for local businesses to be shut down for some time after the aftershocks settle.

- A. ABDC
- B. BDAC
- C. ACDB
- D. DBAC
- E. BACD

Answer: D

Explanation: The opening sentence talks about the outcomes of a natural disaster and that of infrastructure. Statement D talks about what follows a natural disaster and uses the word aftershocks, which inevitably tells us that the disaster that is being talked about is an earthquake. A introduces the word earthquake and names the business houses being closed, thus, should follow B (B talks about business disruptions introduced in D). C is the concluding statement as it gives an overall summary of the after-effects of a natural disaster.

7. Direction: The given sentences, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a letter. Choose the most logical order of the sentences from among the five given choices to construct a coherent paragraph keeping 1 as the first statement

1. One of the traditional arguments for a free market economy is that it provides businesses with a tangible incentive to offer goods and services that people want.

- A. Such a system, they say, necessarily creates clear winners and loser
- B. That is, firms that successfully respond to the needs of the consumer get rewarded with higher profits.

C. This is because the means of production are in private hands and those who own them not only accumulate a disproportionate share of wealth but have the power to suppress the rights of those they employ.

D. Nevertheless, some economists and political philosophers have contended that the capitalist model is inherently flawed.

- A. BCAD
- B. DCAB
- C. DBCA
- D. BCDA

Answer: A

Explanation: The opening sentence talks about the positives of a free market economy. Statement B builds on the positives by talking about the higher profits earned by certain firms. D uses the word 'nevertheless' which implies that a contrast is being stated with respect to the previously mentioned facts, hence D should follow B. A follows D as the capitalist model which was introduced in D is being talked about. C gives the reason for the capitalist model being flawed.

8. Direction: The given sentences, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a letter. Choose the most logical order of the sentences from among the five given choices to construct a coherent paragraph keeping 1 as the first statement Science merely reflects the social forces by which it is surrounded and hence it is war and not science which is considered as the enemy of mankind.

- A. Our main problem, therefore, is not to curb science, but to stop war, to substitute law for force and international

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governments for anarchy in the relations between nations.

- B. It is found that there is peace, science is constructive; when there is war science is perverted to destructive ends.
 - C. Until now, they have brought us to the doorstep of doom.
 - D. The weapon which science gives us do not necessarily create war, these make war increasingly more terrible.
- A. ADBC
 - B. BADC
 - C. CDAB
 - D. DABC
 - E. BDCA

Answer: E

Explanation: The central theme of the passage is the fact that science is not the enemy of mankind, but war is. B should follow 1 as it builds on the argument given in statement 1 and that we should stop war rather than curbing science. D follows as it gives reason in support of the argument laid in B. C talks about the fact that science making weapons which has made things worse and 'brought us to the doorstep of doom', talked about in statement C. The use of 'therefore' gives us a clue, that it is the concluding bit of the passage.

9. Direction: The given sentences, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a letter. Choose the most logical order of the sentences from among the five given choices to construct a coherent paragraph keeping 1 as the first statement

In the long run, national recognition of same-gender marriage is inevitable.

- A. It is only a matter of time before all state laws reflect that view.
- B. Prudence counsels that marriage equality should be allowed to continue gaining support in the states and that a federal resolution should be left for another day.
- C. Same-gender marriage rights, at first imposed by courts, have now been recognized by state legislatures and prevailed in all four states where they were on the ballot in last year's election.
- D. Young people overwhelmingly support it, and public opinion has shifted on this issue faster than on almost any other social issue in history.

- A. CDAB
- B. ACBD
- C. BACD
- D. DCBA

Answer: A

Explanation: Statement D is referring to the same-gender rights which are mentioned in statement C. So, C must be followed by D. Hence CD is a mandatory pair. The theme of the series is that of same-gender marriage, and it is statement C that takes the argument a step ahead along with the use of 'at first', and hence it should follow statement 1. D conveys that the idea of same-sex marriage is gaining a lot of popularity amongst the young crowd and public support. Logically what should follow D from the remaining two options is A as it is talking about the states reflecting the same view as that held by the public and youngsters. Thus, the correct sequence is CDAB

10. Direction: The given sentences, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a letter. Choose the most logical order of the

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sentences from among the five given choices to construct a coherent paragraph keeping 1 as the first statement

1. The Ganges is a trans-boundary river of Asia which flows through the actions of India and Bangladesh.

- A. It is the third largest river in the world by discharge, draining a large and a fertile basin with an area of about one million square kilometers.
- B. The 2,525 km (1,569 mi) river rises in the eastern Himalayas in the Indian state of Uttarakhand and flows south and east through the Gangetic Plain of North India into Bangladesh, where it empties into the Bay of Bengal.
- C. The Ganges is the most sacred river to Hindus Ganga along with being a symbol of divinity, spirituality, purity, and moksha.
- D. It is also a lifeline to millions of Indians who live along its course and depend on it for their daily needs
- A. BCAD
B. BACD
C. ABCD
D. ABDC
E. CBAD

Answer: A

Explanation: I. doesn't go with the given statement as it has a pronoun "they" which can't be used for a noun in the given sentence.

II. Goes with the statement as the clause "before taking a decision" adds to the sentence to support the context that has been stated in the statement.

III. Doesn't go with the sentence, as the given statement doesn't talk about an

example of something. Hence, only iii is correct. New sentence: Before taking a decision, discuss the matter objectively with other people who are wellinformed and if it is proved that you are about to

take a step in the wrong direction, accept the reality and admit your mistake.

11. Direction: In the given question, there are two statements which can be combined into a single statement in a number of ways without changing their meaning. Below them, three probable starters A, B, C are given, which may combine these sentences. One, two or three of them may be correct. Decide upon which is/are correct, if any mark the option which denotes your answer. If none of the three options is suitable, mark 'None' as your answer. Discuss the matter objectively with other

people who are well-informed. If it is proved that you are about to take a step in the wrong direction, accept the reality and admit your mistake.

- i. As soon as they take it into consideration
ii. Before taking a decision
iii. Yet another example is that
- A. Only I
B. Only II
C. Both II and III
D. Both I and II
E. None

Answer: B

Explanation: I. Doesn't go with the given statement as it has a pronoun "they" which can't be used for a noun in the given sentence. II. Goes with the statement as the clause "before taking a decision" adds to the sentence to support the context that has been stated in

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the statement. III. Doesn't go with the sentence, as the given statement doesn't talk about an example of something. Hence, only iii is correct. New sentence: Before taking a decision, discuss the matter objectively with other people who are wellinformed and if it is proved that you are about to take a step in the wrong direction, accept the reality and admit your mistake.

12. Direction: In the given question, there are two statements which can be combined into a single statement in a number of ways without changing their meaning. Below them, three probable starters A, B, C are given, which may combine these sentences. One, two or three of them may be correct. Decide upon which is/are correct, if any mark the option which denotes your answer. If none of the three options is suitable, mark 'None' as your answer.

A wealth of evidence has accumulated to suggest that a lack of sleep is bad for mind and body. Working memory is important for keeping things in mind for briefer periods of time, which thereby facilitates reasoning and planning.

- i. Over the last few years
 - ii. II. As soon as
 - iii. III. In contrast
- A. Only I
 - B. Only II
 - C. Only III
 - D. Both I and II
 - E. None

Answer: A

Explanation: I. goes with the statement because the given statement provides a general fact through a large amount of evidence and evidence is something that can be collected

with time. II. Doesn't go with the sentence as whenever "as soon as" is used in the starting of a sentence, it should be proceeded by a clause. III. Doesn't go with the sentence as "in contrast" tells a fact opposite to a given fact when used as a connector between two sentences and the given statement doesn't tell any contrasting fact. Hence, i is correct. New Sentence: Over the last few years a wealth of evidence has accumulated to suggest that a lack of sleep is bad for mind and body and working memory is important for keeping things in mind for briefer periods of time, which thereby facilitates reasoning and planning

13. Direction: In the given question, there are two statements which can be combined into a single statement in a number of ways without changing their meaning. Below them, three probable starters A, B, C are given, which may combine these sentences. One, two or three of them may be correct. Decide upon which is/are correct, if any mark the option which denotes your answer. If none of the three options is suitable, mark 'None' as your answer.

1. The regulator also spoke of two on-going investigations in the matter of NSE and Rs5,548 -crore National Spot Exchange Ltd (NSEL) scam. This was a departure from the regular practice and norms of SEBI.

- i. The two ongoing investigations
 - ii. In a departure from
 - iii. Speaking of
- A. Only I
 - B. Only II
 - C. Only III
 - D. Both I and III
 - E. None

Answer: B

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Explanation: Special emphasis is given to the fact that the regulator's statement was a departure from the regular practice and norms of SEBI. Hence, 'In a departure from' is the correct choice. New Sentence: In a departure from the regular practice and norms of the SEBI, the regulator also spoke of two on-going investigations in the matter of NSE and Rs5,548-crore National Spot Exchange Ltd (NSEL) scam

14. Direction: In the given question, there are two statements which can be combined into a single statement in a number of ways without changing their meaning. Below them, three probable starters A, B, C are given, which may combine these sentences. One, two or three of them may be correct. Decide upon which is/are correct, if any mark the option which denotes your answer. If none of the three options is suitable, mark 'None' as your

Even if the violations are technically against the rules. It can actually serve to strengthen the classroom culture and increase trust with some students.

- i. Ignoring certain minor misbehaviours,
 - ii. Going with undisruptive behaviour,
 - iii. III. Considering which behaviour of children to address and which to ignore,
- A. Only I
 - B. Both I and II
 - C. Both I and III
 - D. Both II and III
 - E. None

Answer: A

Explanation: We can clearly decipher from the second sentence that it is about student's behaviour in the classrooms. Option II: the starting phrase would be grammatically

incorrect. Option III: 'Even if the violations are technically against the rules' is relatable to only ignorance. We can only use this option and join it with the second sentence. But with the first sentence, it makes no sense. Therefore, only option A is the apt answer. New sentence: Ignoring certain minor misbehaviours, even if the violations are technically against the rules, can actually serve to strengthen the classroom culture and increase trust with some students.

15. Direction: In the given question, a part of the sentence is printed in bold. Below the sentence alternatives to the bold part are given at (A), (B), (C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given sentence is correct, your answer is (E) i.e. No correction required While welcoming all moves to addresses India's core concerns on terror, New Delhi must ensure it doesn't get ensnared or triangulated in the equation between Washington and Islamabad.
A. for address India's core B. to address India's **cores** C. to address India's core D. to address Indian core E. No correction required

- A. for address India's core
- B. to address India's cores
- C. to address India's core
- D. to address Indian core
- E. No correction required

Answer: C

Explanation: The correct preposition to be used after 'moves' is 'to'. Address is the correct form. Cores is an incorrect usage. The correct usage is core. Core concern means primary concern. Hence, option C is the correct answer.

16. Direction: In the given question, a part of the sentence is printed in bold. Below the

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sentence alternatives to the bold part are given at (A), (B), (C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given sentence is correct, your answer is (E) i.e. No correction

Massive protests by the Indian Medical Association and poor execution derailed the Chhattisgarh experiment, but the ideas wasn't without merit.

- A. idea wasn't without merit
- B. idea weren't without merit
- C. idea hadn't without merit
- D. idea haven't without merit
- E. No correction required

Answer: A

Explanation:

The correct usage is "wasn't" not "weren't". It should either be 'ideas were' or 'idea was'. Hence, option A is the correct answer

17. Direction: In the given question, a part of the sentence is printed in bold. Below the sentence alternatives to the bold part are given at (A), (B), (C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given sentence is correct, your answer is (E) i.e. No correction required.

The empire-builders benefited from impeccable timing: the characteristic warm, wet and stable weather was conducive to economic productivity at an agrarian society.

- A. productivity at an agrarian
- B. productivity in an agrarian
- C. productivity at the agrarian society
- D. productive at an agrarian
- E. No correction required

Answer: B

Explanation:

The given segment has an error of preposition. At describes position at a specific point and is used with a larger place (a store, bank, or airport) and before the names of group activities. In refers to the position within large areas or in spaces that surround something on all sides. The given segment signifies the economic productivity within an agrarian society. The correct usage is 'in' and not 'at'. Hence, 'economic productivity in an agrarian society' is the correct answer.

18. Direction: In the given question, a part of the sentence is printed in bold. Below the sentence alternatives to the bold part are given at (A), (B), (C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given sentence is correct, your answer is (E) i.e. No correction required

An Australian man, long thought to being associated of the digital currency Bitcoin, has publicly identified himself as its creator.

- A. to be associate with that
- B. to be associates from the
- C. to be associate within the
- D. to be associated with the
- E. No correction required

Answer: D

Explanation:

'To be associated with the' makes the sentence grammatically correct. 'To being' is incorrect in the given context. The sentence brings out an existing relationship or association. Hence, 'associated' should be used. 'Associate' doesn't

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make sense.

19. Direction: In the given question, a part of the sentence is printed in bold. Below the sentence alternatives to the bold part are given at (A), (B), (C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given sentence is correct, your answer is (E) i.e. No correction required.

What drove its initial development was its purely digital existence, away from the control of government regulators.

- A. away to the control of
- B. away with control of the
- C. away from control of the
- D. away with the control for
- E. No correction required

Answer: E

Explanation: The given sentence is correct and needs no improvement. It means that the government did not have any control in the development of the subject

20. Direction: In the given question, a part of the sentence is printed in bold. Below the sentence alternatives to the bold part are given at (A), (B), (C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given sentence is correct, your answer is (E) i.e. No correction required.

Bitcoin could let transacting party remain anonymous, keep transactions very secure, and eliminate middlemen fees.

- A. would letting transactions parties remains
- B. should lets transacting party remain
- C. would let transacting parties remain
- D. would have transacting parties remain

E. No correction required

Answer: C

Explanation: 'Would let transacting parties remain' is the correct answer. 'Would' is used to preserve the future aspect when talking about the past. If you are writing about past events, you can use it to indicate something that was in the future at that point in time but is not necessarily in the future right now. 'Could' represents past of 'can' and when you want to convey something politely. Here, the future aspect of Bitcoin is being discussed, hence would is a more suitable response. Would letting is grammatically incorrect; hence option A can be eliminated. Option D makes the sentence grammatically incorrect; hence it can be eliminated.

21. Direction: In the given question, a part of the sentence is printed in bold. Below the sentence alternatives to the bold part are given at (A), (B), (C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given sentence is correct, your answer is (E) i.e. No correction required.

The mid-day meal scheme has helped but should it have been linked less with the schooling system and more with the hunger pattern.

- A. should had been linked less
- B. should it not have been linked less
- C. it should been linked lesser
- D. it should have been linked less
- E. No correction required

Answer: D

Explanation: The correct structure for the given sentence is affirmative. Hence, 'it' must be

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placed before 'should'. This eliminates the given sentence and option B. The given sentence is generic; hence had is an incorrect form. Hence, option A can be eliminated. Option C is incomplete.

22. Direction: In the given question, a part of the sentence is printed in bold. Below the sentence alternatives to the bold part are given at (A), (B), (C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given sentence is correct, your answer is (E) i.e. No correction required.

A true leader's life is a saga of dedicating to the cause of welfare of human beings

- A. of dedicated
- B. of having dedication in
- C. of dedication to
- D. for dedication at
- E. No correction required

Answer: C

Explanation: A noun is required after 'a saga of'. Dedicating is the gerund form (verb). Option A: 'dedicated the cause of' is incorrect. Option B: Having before dedication distorts the structure. Option C: It fits the given sentence well. Option D: The correct proposition after saga should be 'of' and not 'for'. Hence, 'of dedication to' is the correct answer.

23. Direction: In the given question, a part of the sentence is printed in bold. Below the sentence alternatives to the bold part are given at (A), (B),(C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given sentence is correct, your answer is (E) i.e. No correction required.

The building had been under construction for a long time until a series of unprecedented events led it to a halt.

- A. leads it to a halt
- B. bringing it to a stop
- C. brought it to a halt
- D. led it to a stop
- E. No correction required

Answer: C

Explanation: The answer to this is statement 'C.' The correct sentence is "The building had been under construction for a long time until a series of unprecedented events brought it to a halt." Bring something to halt is a phrase that means causing something to stop. According to the sentence some unprecedented events stopped the construction of the building. Thus the phrase (in its past tense) 'Brought it to a halt' is apt for this sentence.

24. Direction: In the given question, a part of the sentence is printed in bold. Below the sentence alternatives to the bold part are given at (A), (B), (C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given sentence is correct, your answer is (E) i.e. No correction required.

At work, if you are unable to follow the rules, you will find yourself running out ofdisagreement with many people.

- A. running in disagreements
- B. running out of disagreements
- C. running into disagreements
- D. running within disagreement
- E. No correction required

Answer: C

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Explanation: The answer to this question is statement 'C'. The correct sentence is 'At work, if you are unable to follow the rules, you will find yourself running into a disagreement with many people.' Running into something means coming across something. The phrase running across disagreements means coming across problems.

Direction (25-30): Read the given passage carefully and answer the questions that follow. Certain words are printed in bold to help you locate them while answering some of these. According to the diaper maker Unicharm, in Japan, adult diapers now outsell baby diapers. That's because a quarter of the country's population is 65 or older. By 2060, that proportion will hit 40 percent. What adjustments have to be made when so many people grow old simultaneously? To take one example, after a recent surge in accidents involving older drivers, the government began testing the Robot Shuttle, an autonomous bus intended for use in rural areas, where Japan's shrinking pains have hurt the most. Other tweaks include slowing down escalators and equipping shopping carts with magnifying glasses. It's long been observed that Japan's aging doesn't bode well for its economy. Lots of old people means a financial drain on both the private and public sectors, as health-care and pension costs skyrocket and productivity declines. But the news isn't all bad: Amid this elder boom, a new, 100 trillion yen (\$800 billion) consumer category has emerged, known as "the silver market." Millions of Japanese seniors who have long been saving for retirement find themselves at the center of a commercial bonanza. The products vying for their attention range from Docomo's Raku-Raku

4, a smartphone that's "easier to hear" and also has jumbo screen icons, to Fujisoft's Palro, a \$6,000 "carebot" that combats dementia through trivia games and fitness drills. Even video-game arcades, long a bastion of youth, are wooing goldenagers with benches for resting; arcade staffers are encouraged to get certified as senior-friendly "service assistants." Source:

25. What is the passage about?

- A. How Japan is handling its aging population, the percentage of which is quite high as compared to those of the young.
 - B. Japan's economy is regressing badly as the maximum population is old and cannot contribute to the growth of the economy.
 - C. Japan is a techno-friendly economy and the old people have not failed to embrace technology.
 - D. Japan sells more diapers for the old than for babies.
 - E. Japan has progressed so much in terms of technology that it is giving a huge challenge to the developed countries like the U. S. and the U.K.
- A. Only 2
 - B. Only 3
 - C. Both 2 and 3
 - D. Both 1 and 2
 - E. Both 1 and 3

Answer: D

Explanation: The passage discusses how the population of the age is on a relative increase in Japan, so much so that more than young babies, there are old people. However, the passage goes on to show how this fact has not negatively affected the economy and, a new market has flourished altogether which provides products

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to cater to the needs of the old. For this reason, option B is incorrect. Option A is the best-fit answer.

26. Which of the following can be inferred from the passage?

- A. The government of Japan is mindful towards its aging population.
 - B. Japan's aging population, rather than being
 - C. Harmful to the economy, has led to positive developments in the economy.
 - D. The capital invested in the old population in
 - E. Japan is more or less a waste as it can well be used to procure the future of the young
- A. Only 2
 - B. Only 3
 - C. Both 2 and 3
 - D. Both 1 and 2
 - E. Both 1 and 3

Answer: D

Explanation: Statement 1 is correct as the second paragraph mentions that "the government began testing the Robot Shuttle, an autonomous bus intended for use in rural areas, where Japan's shrinking pains have hurt the most." Since the government is concerned about the old, statement 1 is a correct inference. Statement 2 is correct as the passage discusses how the case of more old people has not negatively affected the economy: "Amid this elder boom, a new, 100 trillion yen (\$800 billion) consumer category has emerged, known as "the silver market."" Statement 3 is incorrect as nowhere in the passage has it been stated that the capital spent on the is a waste

27. What does the author mean when he/ she says, "It's long been observed that Japan's aging doesn't bode well for its economy?"

- A. The old people are revered in Japan. The increasing number of old people in
- B. Japan have people a burden on their families and the society.
- C. People growing old is a recent phenomenon in Japan, unlike in the past when the young superseded the number of the old.
- D. The old people of Japan have been able to prove beneficial for the economy, as in their old age their contribution to the economy has been less.
- E. None of these.

Answer: D

Explanation: The word "bode" means to predict or promise. So the given excerpt means that the old population of Japan had never promised a prosperous economy.

28. Which of the following statement is true with respect to the passage?

- A. By 2060, Japan's population of increase by 15% of what it presently is.
- B. The health-care and pension costs provided to the old people in Japan are quite expensive and in the face of the zero contribution made by the old population, these investments burden
- C. the economy. The rural areas have been the most adversely affected owing to a large number of older population.
- D. Japan has developed certain new
- E. Equipment and gadgets, exclusively designed for the old people, thus leading to the flourishment to a new market altogether. All of these.

Answer: E

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Explanation: Option A is correct because if 40% of the population will be old by 2060 and a quarter (25%) is old at the present, the increase will be 15%. Option B is correct as the passage states: "It's long been observed that Japan's aging doesn't bode well for its economy. Lots of old people means a financial drain on both the private and public sectors, as health-care and pension costs skyrocket and productivity declines." Option C is correct and can be deciphered from the following lines given in the second paragraph, "an autonomous bus intended for use in rural areas, where Japan's shrinking pains have hurt the most" Option D is correct and can be gathered from the last paragraph. Thus, E is the correct answer.

29. Which of the following words is similar in meaning to "hurt" as used in the passage.

- A. Harm
- B. Cut
- C. Burn
- D. Suffer
- E. Procured

Answer: A

Explanation: The sentence using the word intends to convey that Japan's lessening pain has been affected in a manner so as to be detrimental to it. Option A is the correct answer. Hurt = cause pain or injury to. Harm = physical injury, especially that which is deliberately inflicted. Cut = make an opening, incision, or wound in (something) with a sharp-edged tool or object. Burn = be or cause to be destroyed by fire. Suffer = experience or be subjected to (something bad or unpleasant). Procured = obtain (something), especially with care or effort

30. Which of the following words is opposite in meaning to "drain" as used in the passage.

- A. Downflow
- B. Absorption
- C. Effective
- D. Radiation
- E. Discharge

Answer: B

Explanation: The word drain has been used in a context whereby it is conveying the idea that the ageing population is a burden on the Japanese economy. The population is the correct answer is option B.

Drain = deprive of strength or vitality

Absorption = the state of being engrossed in something.

Downflow = a downward flow or something that flows down. Effective = successful in producing a desired or intended result.

Radiation = divergence out from a central point, in particular evolution from an ancestral animal or plant group into a variety of new forms. Discharge = tell (someone) officially that they can or must leave, in particular.

Direction (31-35): Study the following information carefully to answer the given questions.

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule. The following is an illustration of input and rearrangement.

Input: 30 69 20 96 50 56 76 19

Step I: 20 30 69 96 50 56 76 21

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Step II: 31 20 69 96 56 76 21 51

Step III: 57 31 20 96 76 21 51 70

Step IV: 77 57 31 20 21 51 70 97

Step IV: is the last step of the

rearrangement the above input. As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input given below:

Input: 50 17 85 34 88 55 11 92 10 78

31. How many steps will be needed to complete the arrangement?

- A. Five
- B. Six
- C. Four
- D. Seven
- E. None of these

Answer: A

Explanation:

In the arrangement, number are arranged as least number is arranged from left end and second least number is arranged from right after adding +1 in both sides. Same rule followed till the arrangement is completed.

Input: 50 17 85 34 88 55 11 92 10 78

Step I: 11 50 17 85 34 88 55 92 78 12

Step II: 18 11 50 85 88 55 92 78 12 35

Step III: 51 18 11 85 88 92 78 12 35 56

Step IV: 79 51 18 11 88 92 12 35 56 86

Step V: 89 79 51 18 11 12 35 56 86 93

Five steps will be needed to complete the arrangement. So answer is 1).

32. Which of the following would be Step IV?

- A. 79 50 18 11 88 92 12 35 56 86
- B. 79 51 18 10 88 92 12 35 56 86
- C. 79 51 18 11 88 92 12 35 56 86
- D. 79 51 18 11 87 92 12 35 56 86
- E. None of these

Answer: C

Explanation: In the arrangement, number are arranged as least number is arranged from left end and second least number is arranged from right after adding +1 in both sides. Same rule followed till the arrangement is completed.

Input: 50 17 85 34 88 55 11 92 10 78

Step I: 11 50 17 85 34 88 55 92 78 12

Step II: 18 11 50 85 88 55 92 78 12 35

Step III: 51 18 11 85 88 92 78 12 35 56

Step IV: 79 51 18 11 88 92 12 35 56 86

Step V: 89 79 51 18 11 12 35 56 86 93

79 51 18 11 88 92 12 35 56 86 IV step of Input. So

answer is 3).

33. In Step V, which of the following number would be at 6th position from the right?

- A. 88
- B. 92
- C. 11
- D. 12

Answer: D

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Explanation: In the arrangement, number are arranged as least number is arranged from left end and second least number is arranged from right after adding +1 in both sides. Same rule followed till the arrangement is completed.

Input: 50 17 85 34 88 55 11 92 10 78

Step I: 11 50 17 85 34 88 55 92 78 12

Step II: 18 11 50 85 88 55 92 78 12 35

Step III: 51 18 11 85 88 92 78 12 35 56

Step IV: 79 51 18 11 88 92 12 35 56 86

Step V: 89 79 51 18 11 12 35 56 86 93

In Step V, '12' would be at 6th position from the right. So answer is 4).

34. Which of the following would be the final arrangement?

- A. 89 79 51 18 11 12 35 55 86 93
- B. 89 79 51 18 11 12 35 56 86 93
- C. 89 79 51 18 11 12 34 56 86 93
- D. 89 79 51 18 10 12 35 56 86 93
- E. None of these

Answer: B

Explanation: In the arrangement, number are arranged as least number is arranged from left end and second least number is arranged from right after adding +1 in both sides. Same rule followed till the arrangement is completed.

Input: 50 17 85 34 88 55 11 92 10 78

Step I: 11 50 17 85 34 88 55 92 78 12

Step II: 18 11 50 85 88 55 92 78 12 35

Step III: 51 18 11 85 88 92 78 12 35 56

Step IV: 79 51 18 11 88 92 12 35 56 86

Step V: 89 79 51 18 11 12 35 56 86 93

Final arrangement would be '89 79 51 18 11 12 35 56 86 93'. So answer is 2).

35. What will be the position of '92' in step IV?

- A. Fifth from the left
- B. Eight from the left
- C. Fifth from the right
- D. Sixth from the right
- E. None of these

Answer: C

Explanation: In the arrangement, number are arranged as least number is arranged from left end and second least number is arranged from right after adding +1 in both sides. Same rule followed till the arrangement is completed.

Input: 50 17 85 34 88 55 11 92 10 78
Step I: 11 50 17 85 34 88 55 92 78 12
Step II: 18 11 50 85 88 55 92 78 12 35
Step III: 51 18 11 85 88 92 78 12 35 56
Step IV: 79 51 18 11 88 92 12 35 56 86
Step V: 89 79 51 18 11 12 35 56 86 93
'92' would be at fifth position from the right in step IV. So answer is 3

Direction (36-40): Study the following information carefully to answer the questions.

- i. In a certain code language, 'business is easy to do' is written as 'pa ro se yo ze',
- ii. 'business arise difficulty in life' is written as 'lo fe pa so te',
- iii. 'life is easy' is written as 'so ro yo', 'difficulty to do work' is written as 'se lo ze me' and 'easy business life' is written as 'pa yo so'.

36. What may be the possible code for 'difficulty arise in business'?

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- A. lo, te, fe, pa
- B. lo, te, so, pa
- C. lo, so, pa, yo
- D. te, lo, me, so
- E. lo, fe, pa, ro

Answer: A

Explanation: As per given information coding description is as follows: 'business is easy to do' - 'pa ro se yo ze'.....1) 'business aries difficulty in life' - 'lo fe pa so te'.2) 'life is easy' - 'so ro yo'.3) 'difficulty to do work' - 'se lo ze me'4) 'easy business life' - 'pa yo so'.5) From 1) and 2) business is coded as: pa From 1), 2) and 5) easy is coded as: yo From 1), 2) and 5) life is coded as: so From 1) and 3) 'is' is coded as: ro From 2) and 4) 'difficulty' is coded as: lo From 1), 2), 3) and 4) 'to' is coded as: Either 'se' or 'ze' From 1), 2), 3) and 4) 'do' is coded as: Either 'se' or 'ze' From 1), 2), 3) and 4) 'work' is coded as: me From 1), 2), 3) and 4) 'aries' is coded as: Either 'fe' or 'te' From 1), 2), 3) and 4) 'in' is coded as: Either 'fe' or 'te' 'lo, te, fe, pa' is the code for 'difficulty aries in business'. So answer is 1)

37. What may be the possible code for 'life is complicated' in the given code language?

- A. so ro fe
- B. so pa ro
- C. ze pa ro
- D. so fa ro
- E. None of these

Answer: D

Explanation: As per given information coding description is as follows: 'business is easy to do' - 'pa ro se yo ze'.....1) 'business aries difficulty in life' - 'lo fe pa so te'.2) 'life is easy' - 'so ro yo'.3) 'difficulty to do work' - 'se lo ze me'

.....4) 'easy business life' - 'pa yo so'.5) From 1) and 2) business is coded as: pa From 1), 2) and 5) easy is coded as: yo From 1), 2) and 5) life is coded as: so From 1) and 3) 'is' is coded as: ro From 2) and 4) 'difficulty' is coded as: lo From 1), 2), 3) and 4) 'to' is coded as: Either 'se' or 'ze' From 1), 2), 3) and 4) 'do' is coded as: Either 'se' or 'ze' From 1), 2), 3) and 4) 'work' is coded as: me From 1), 2), 3) and 4) 'aries' is coded as: Either 'fe' or 'te' From 1), 2), 3) and 4) 'in' is coded as: Either 'fe' or 'te' 'life is complicated' can written as 'so fa ro' complicated is the new word for coding so we should write new code also which is fa. So answer is 4).

From 1), 2), 3) and 4) 'aries' is coded as: Either 'fe' or 'te'

From 1), 2), 3) and 4) 'in' is coded as: Either 'fe' or 'te'

'aries' can be coded as Either 'fe' or 'te'. So answer is 5)

38. What is the code for 'arise' in the given code language?

- A. fe
- B. te
- C. lo
- D. pa
- E. Either 'fe' or 'te'

Answer: B

Explanation: As per given information coding description is as follows: 'business is easy to do' - 'pa ro se yo ze'.....1) 'business aries difficulty in life' - 'lo fe pa so te'.2) 'life is easy' - 'so ro yo'.3) 'difficulty to do work' - 'se lo ze me'4) 'easy business life' - 'pa yo so'.5) From 1) and 2) business is coded as: pa From 1), 2) and 5) easy is coded as: yo From 1), 2) and 5) life

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is coded as: so From 1) and 3) 'is' is coded as: ro From 2) and 4) 'difficulty' is coded as: lo From 1), 2), 3) and 4) 'to' is coded as: Either 'se' or 'ze' From 1), 2), 3) and 4) 'do' is coded as: Either 'se' or 'ze' From 1), 2), 3) and 4) 'work' is coded as: me From 1), 2), 3) and 4) 'aries' is coded as: Either 'fe' or 'te' From 1), 2), 3) and 4) 'in' is coded as: Either 'fe' or 'te' Code for 'difficulty' is 'lo'. So answer is 2).

39. What is the code for 'difficulty' in the given code language?

- A. pa
- B. lo
- C. so
- D. te
- E. yo

Answer: E

Explanation: As per given information coding description is as follows: 'business is easy to do' - 'pa ro se yo ze'.....1) 'business aries difficulty in life' - 'lo fe pa so te'.2) 'life is easy' - 'so ro yo'.3) 'difficulty to do work' - 'se lo ze me'4) 'easy business life' - 'pa yo so'.5) From 1) and 2) business is coded as: pa From 1), 2) and 5) easy is coded as: yo From 1), 2) and 5) life is coded as: so From 1) and 3) 'is' is coded as: ro From 2) and 4) 'difficulty' is coded as: lo From 1), 2), 3) and 4) 'to' is coded as: Either 'se' or 'ze' From 1), 2), 3) and 4) 'do' is coded as: Either 'se' or 'ze' From 1), 2), 3) and 4) 'work' is coded as: me From 1), 2), 3) and 4) 'aries' is coded as: Either 'fe' or 'te' From 1), 2), 3) and 4) 'in' is coded as: Either 'fe' or 'te' Code for 'difficulty' is 'lo'. So answer is 2). Code for 'do' in the given code language is Either 'se' or 'ze'. So answer is 5)

40. What is the code for 'do' in the given code language?

- A. se
- B. ze
- C. ro
- D. pa
- E. Either 'se' or 'ze'

Answer: E

Explanation: As per given information coding description is as follows:

'business is easy to do' - 'pa ro se yo ze'.....1)
'business aries difficulty in life' - 'lo fe pa so te'.

.....2)'life is easy' - 'so ro yo'.3)

'difficulty to do work' - 'se lo ze me'4)

'easy business life' - 'pa yo so'.5)

From 1) and 2) business is coded as: pa

From 1), 2) and 5) easy is coded as: yo

From 1), 2) and 5) life is coded as: so

From 1) and 3) 'is' is coded as: ro

From 2) and 4) 'difficulty' is coded as: lo

From 1), 2), 3) and 4) 'to' is coded as: Either 'se' or 'ze'

From 1), 2), 3) and 4) 'do' is coded as: Either 'se' or 'ze'

From 1), 2), 3) and 4) 'work' is coded as: me

Direction (41-42): Study the given question carefully and answer the given question. C is the daughter of the one who is son of B. There is only one married couple in the group. F is the brother of E, who is the daughter of D and grand

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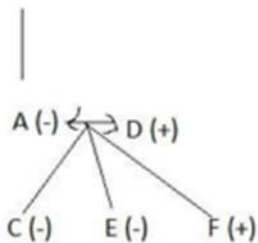
daughter of B. A is the mother of C, who is married couple in the group.

41. What is true with respect to F?

- A. F is the son of B and A
- B. F is the daughter of C and E
- C. F is the son of D and A
- D. F is daughter of B
- E. None of these

Answer: C

Explanation: As per given information family tree is as follows:



So F is grandson of B and son of A and D. So answer is 3)

42. How is B related to E?

- A. B is uncle of E
- B. B is grandfather of E
- C. B is Grandmother of E
- D. B is brother of E
- E. Can't be determined

Answer: E

Explanation: As per given information B gender is not defined.

So, option E is the correct response.

Direction (43-47): Study the following information to answer the given questions. Fourteen people are sitting in two parallel rows containing seven people each, in such a way

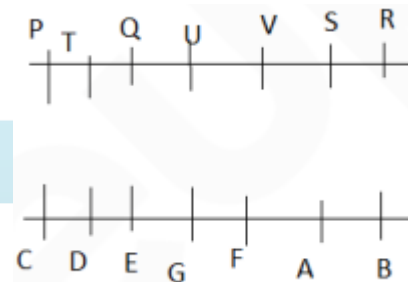
that there is an equal distance between adjacent persons number

43. Who amongst the following sit at extreme left ends of the parallel rows?

- A. R, B
- B. F, T
- C. P, C
- D. B, F
- E. None of these

Answer: C

Explanation:



As per above diagram, P and C sit at extreme left ends of the parallel rows. So answer is 3).

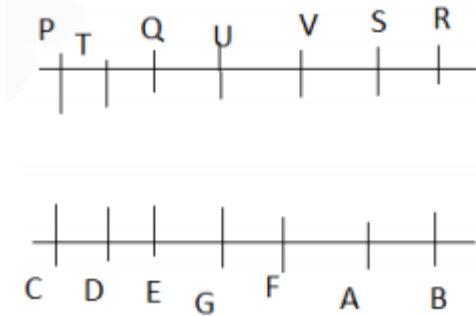
44. Who amongst the following faces A?

- A. R
- B. T
- C. P
- D. Q
- E. S

Answer: E

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Explanation:

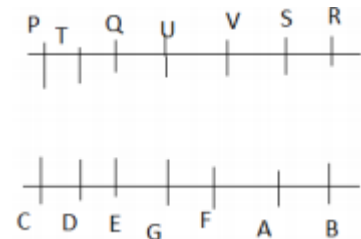


45. How many persons are seated between T and S?

- A. One
- B. Two
- C. Three
- D. Four
- E. None of these

Answer: C

Explanation:



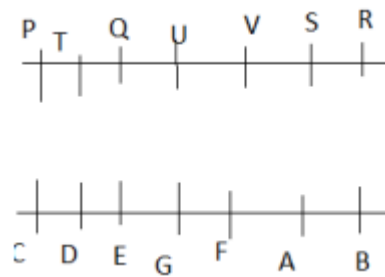
Three persons are seated between T and S. So answer is 3).

46. P is related to V in the same way as C is related to F. Which of the following is E related to, following the same pattern?

- A. B
- B. D
- C. C
- D. A
- E. None of the above

Answer: A

Explanation:



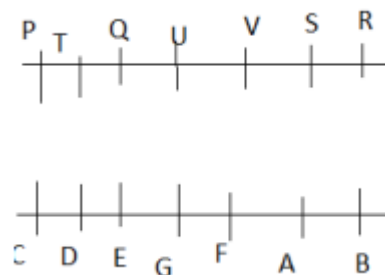
P is related to V in the same way as C is related to F. In the same pattern E related to B. So answer is 1).

47. Which of the following is true regarding F?

- A. F sits second to right of C.
- B. F is not an immediate neighbour of A
- C. F sits third to left of D
- D. F sits at one of the extreme ends of the line
- E. F faces V

Answer: E

Explanation:



As per above diagram, F faces V is the true information regarding F. So answer is 5).

Direction (48-52): Study the given information carefully and answer the following question.

A, B, C, D, E, F and G are seven different boxes packed with different numbers written on top of them viz. 1, 2, 3, 4, 5, 6 and 7 but not necessarily in the same order. Box D is immediately above the box packed with number

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5. More than three boxes are there between box packed with number 4 and box packed with number 2. There are two boxes between the box B and box E. There is only one box between box E and box G. There are three boxes between box G and box A, which is packed with number 1. There are only two boxes between box A and box C, which is packed with number 6. The box packed with number 2 is immediately above the box G.

More than three boxes are there between box packed with number 5 and box packed with number 4. Box E is packed with number 3

48. Which of the following box is packed with a number which is a perfect square?

- A. D
- B. B
- C. F
- D. G
- E. Cannot be determined

Answer: D

Explanation: Box - A, B, C, D, E, F and G

Number - 1, 2, 3, 4, 5, 6 and 7

1. There are two boxes between the box B and box E. There is only one box between box E and box G.

Box	Number
	2
G	
C	6
E	
A	1
B	

There are three boxes between box G and box A,

which is packed with number 1. There are only two boxes between box A and box C, which is packed with number 6. The box packed with number 2 is immediately above the box G. 2. Box E is packed with number 3. Box D is immediately above the box packed with number

Box	Number
D	2
G	5
C	6
E	3
F	
A	1
B	

3. More than three boxes are there between box packed with number 4 and box packed with number 2. More than three boxes are there between box packed with number 5 and box

Box	Number
D	2
G	5
C	6
E	3
F	7
A	1
B	4

packed with ..

Hence, box B is packed with number 4.

49. How many boxes are there between box A and box which is packed with number 5?

- A. None
- B. One
- C. Two
- D. Three
- E. Four

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Answer: D

Explanation:

Box - A, B, C, D, E, F and G

Number - 1, 2, 3, 4, 5, 6 and 7

1. There are two boxes between the box B and box E. There is only one box between box E and box G. There are three boxes between box G and box A, which is packed with number 1. There are only two boxes between box A and box C, which is packed with number 6. The box packed with number 2 is immediately above the box G.

Box	Number
	2
G	
C	6
E	
A	1
B	

2. Box E is packed with number 3. Box D is immediately above the box packed with number

Box	Number
D	2
G	5
C	6
E	3
F	
A	1
B	

3. More than three boxes are there between box packed with number 4 and box packed with number 2. More than three boxes are there between box packed with number 5 and box packed with number

Box	Number
D	2
G	5
C	6
E	3
F	7
A	1
B	4

Hence, three boxes are there between box A and box packed with number 5.

50. What is the sum of numbers of box D and box F?

- A. Five
- B. Six
- C. Seven
- D. Eight
- E. Nine

Answer: E

Explanation: Box - A, B, C, D, E, F and G

Number - 1, 2, 3, 4, 5, 6 and 7

1. There are two boxes between the box B and box E. There is only one box between box E and box G. There are three boxes between box G and box A, which is packed with number 1. There are only two boxes between box A and box C, which is packed with number 6. The box packed with number 2 is immediately above the box

Box	Number
	2
G	
C	6
E	
A	1
B	

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2. Box E is packed with number 3. Box D is immediately above the box packed with number

Box	Number
D	2
G	5
C	6
E	3
F	
A	1
B	

3. More than three boxes are there between box packed with number 4 and box packed with number 2. More than three boxes are there between box packed with number 5 and box packed with number

Box	Number
D	2
G	5
C	6
E	3
F	7
A	1
B	4

51. Which of the following box is packed with even number?

- A. A
- B. G
- C. D
- D. E
- E. F

Answer: C

Explanation:

Box - A, B, C, D, E, F and G

Number - 1, 2, 3, 4, 5, 6 and 7

1. There are two boxes between the box B and box E. There is only one box between box E and box G. There are three boxes between box G and box A, which is packed with number 1. There are only two boxes between box A and box C, which is packed with number 6. The box packed with number 2 is immediately above the box G.

Box	Number
	2
G	
C	6
E	
A	1
B	

2. Box E is packed with number 3. Box D is immediately above the box packed with number 5.

Box	Number
D	2
G	5
C	6
E	3
F	
A	1
B	

3. More than three boxes are there between box packed with number 4 and box packed with number 2. More than three boxes are there between box packed with number 5 and box packed with number

4.

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Box	Number
D	2
G	5
C	6
E	3
F	7
A	1
B	4

Hence, box D is packed with number 2.

52. Which box is packed with number 7?

- A. D
- B. F
- C. B
- D. G

Answer: B

Explanation:

Box - A, B, C, D, E, F and G

Number - 1, 2, 3, 4, 5, 6 and 7

1. There are two boxes between the box B and box E. There is only one box between box E and box G. There are three boxes between box G and box A, which is packed with number 1. There are only two boxes between box A and box C, which is packed with number 6. The box packed with number 2 is immediately above the box G

Box	Number
	2
G	
C	6
E	
A	1
B	

2. Box E is packed with number 3. Box D is immediately above the box packed with number 5.

Box	Number
D	2
G	5
C	6
E	3
F	
A	1
B	

3. More than three boxes are there between box packed with number 4 and box packed with number 2. More than three boxes are there between box packed with number 5 and box packed with number

4.

Box	Number
D	2
G	5
C	6
E	3
F	7
A	1
B	4

Hence, box F is packed with number 7

Direction (53-57): Study the given information carefully and answer the following question.

There are eight friends in a group M, N, O, P, Q, R, S and T. They have their birthdays in one of the following months – March, June, November and December. In each month there are two birthdays. The birthdays are either on 16th or 25th of any given month. O and Q have

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birthdays in month having 31 days. There are at least two birthdays between M and T. M does not have birthday in March. N has birthday in November. T's birthday is immediately after N's. Q's birthday is not on 16th of any month. N's birthday is somewhere after O's. There are two birthdays between O and P. N and Q have birthday on same date. Similarly, M and S have birthdays on same date. P and T do not have birthday on same date. R does not like December month.

53. Who among the following has birthday on

25th of June?

- A. O
- B. P
- C. R
- D. S
- E. T

Answer: B

Explanation:

Person - M, N, O, P, Q, R, S and T

Months - March, June, November and December

Date – 16th or 25th

1. N has birthday in November. T's birthday is immediately after N's.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th			N	
25 th			T	

Case 2:

	March (31)	June (30)	November (30)	December (31)
16 th				T
25 th			N	

2. O and Q have birthdays in month having 31 days. Q's birthday is not on 16th of any month. N and Q have birthday on same date.

This is not possible in case 1. So, case 2 is correct.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th				T
25 th			N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16 th				T
25 th	Q		N	

3. N's birthday is somewhere after O's. There are two birthdays between O and P. P and T do not have birthdays on same date. O and Q have birthdays in month having 31 days.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th	O			T
25 th		P	N	Q

Case

2:

	March (31)	June (30)	November (30)	December (31)
16 th	O			T
25 th	Q	P	N	

4. There are at least two birthdays between M and

T. M does not have birthday in March. M and S have birthdays on same date. R does not like December month.

	March (31)	June (30)	November (30)	December (31)
16 th	O	M	S	T
25 th	R	P	N	Q

Hence, P has birthday on 25th of June.

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54. How many persons have birthday between O and T?

- A. One
- B. Two
- C. Three
- D. Four
- E. Five

Answer: E

Explanation:

Person - M, N, O, P, Q, R, S and T

Months - March, June, November and December

Date – 16th or 25th

1. N has birthday in November. T's birthday is immediately after N's.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th			N	
25 th			T	

Case 2:

	March (31)	June (30)	November (30)	December (31)
16 th				T
25 th			N	

2. O and Q have birthdays in month having 31 days. Q's birthday is not on 16th of any month. N and Q have birthday on same date. This is not possible in case 1. So, case 2 is correct.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th				T
25 th			N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16 th				T
25 th	Q		N	

3. N's birthday is somewhere after O's. There are two birthdays between O and P. P and T do not have birthdays on same date. O and Q have birthdays in month having 31 days.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th	O			T
25 th		P	N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16 th	O			T
25 th	Q	P	N	

3. N's birthday is somewhere after O's. There are two birthdays between O and P. P and T do not have birthdays on same date. O and Q have birthdays in month having 31 days.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th	O			T
25 th		P	N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16 th	O			T
25 th	Q	P	N	

4. There are at least two birthdays between M and T. M does not have birthday in March. M and S have birthdays on same date. R does not like December month.

	March (31)	June (30)	November (30)	December (31)
16 th	O	M	S	T
25 th	R	P	N	Q

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Hence, five persons have birthdays between O and T.

55. M has birthday on which date?

- A. 25th November
- B. 16th December
- C. 25th June
- D. 16th November
- E. None of the

Answer: E

Explanation:

Person - M, N, O, P, Q, R, S and T

Months - March, June, November and December

Date – 16th or 25th

1. N has birthday in November. T's birthday is immediately after N's.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th			N	
25 th			T	

Case 2:

	March (31)	June (30)	November (30)	December (31)
16 th				T
25 th			N	

2. O and Q have birthdays in month having 31 days. Q's birthday is not on 16th of any month. N and Q have birthday on same date.

This is not possible in case 1. So, case 2 is correct.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th				T
25 th			N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16 th				T
25 th	Q		N	

3. N's birthday is somewhere after O's. There are two birthdays between O and P. P and T do not have birthdays on same date. O and Q have birthdays in month having 31 days.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th	O			T
25 th		P	N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16 th	O			T
25 th	Q	P	N	

4. There are at least two birthdays between M and

T. M does not have birthday in March. M and S have birthdays on same date. R does not like December month.

	March (31)	June (30)	November (30)	December (31)
16 th	O	M	S	T
25 th	R	P	N	Q

Hence, M has birthday on 16th June.

56. Four of the following are alike in a certain way and form a group. Which of the following does not belong to that group?

- A. O
- B. Q
- C. P
- D. R

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E. T

Answer: C

Explanation:

Person - M, N, O, P, Q, R, S and T

Months - March, June, November and December

Date – 16th or 25th

1. N has birthday in November. T's birthday is immediately after N's.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th			N	
25 th			T	

Case 2:

	March (31)	June (30)	November (30)	December (31)
16 th				T
25 th			N	

2. O and Q have birthdays in month having 31 days. Q's birthday is not on 16th of any month. N and Q have birthday on same date.

This is not possible in case 1. So, case 2 is correct.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th				T
25 th			N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16 th				T
25 th	Q		N	

3. N's birthday is somewhere after O's. There are two birthdays between O and P. P and T do

not have birthdays on same date. O and Q have birthdays in month having 31 days.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th	O			T
25 th		P	N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16 th	O			T
25 th	Q	P	N	

4. There are at least two birthdays between M and T. M does not have birthday in March. M and S have birthdays on same date. R does not like December month.

	March (31)	June (30)	November (30)	December (31)
16 th	O	M	S	T
25 th	R	P	N	Q

Hence, except P all have birthdays in the month having 31 days.

57. Who among the following have birthday in June?

- A. R
- B. S
- C. T
- D. M
- E. N

Answer: D

Explanation:

Person - M, N, O, P, Q, R, S and T

Months - March, June, November and December

Date – 16th or 25th

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1. N has birthday in November. T's birthday is immediately after N's.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th			N	
25 th			T	

Case 2:

	March (31)	June (30)	November (30)	December (31)
16 th				T
25 th			N	

2. O and Q have birthdays in month having 31 days. Q's birthday is not on 16th of any month. N and Q have birthday on same date.

This is not possible in case 1. So, case 2 is correct.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th				T
25 th			N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16 th				T
25 th	Q		N	

3. N's birthday is somewhere after O's. There are two birthdays between O and P. P and T do not

have birthdays on same date. O and Q have birthdays in month having 31 days.

Case 1:

	March (31)	June (30)	November (30)	December (31)
16 th	O			T
25 th		P	N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16 th	O			T
25 th	Q	P	N	

4. There are at least two birthdays between M and T. M does not have birthday in March. M and S have birthdays on same date. R does not like December month.

	March (31)	June (30)	November (30)	December (31)
16 th	O	M	S	T
25 th	R	P	N	Q

Hence, M has birthday in June.

Direction (58-60): Study the following information and answer the questions given below.

8 persons M,N,O,P,Q,R,S and T are standing in such a way that O is 10 m in west from N, N is 20 m South with respect to M. M is 30 m towards West with respect to Q. P is 40 m towards South with respect to Q. R is 5 m apart from S towards North. T is 20 m towards East with respect to S. R is 30 m towards West with respect to P.

58. In which direction is Q standing with respect to R?

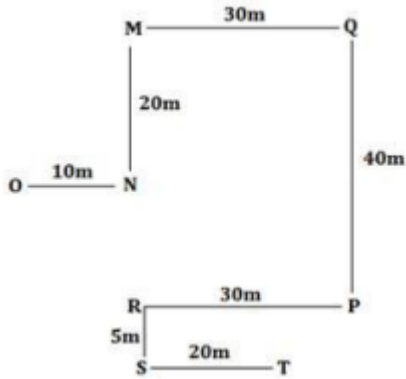
- A. North-West
- B. North
- C. North-East
- D. Cannot be determined
- E. None of these

Answer: C

Explanation:

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Here we have to go line by line to make the direction table



So, now we can answer the given questions. For Q .19. No information is given that where is the person U is standing. So, we can't predict the direction of T with respect to U.

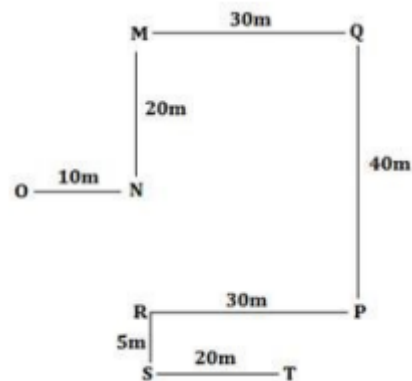
59. If one more person U is standing towards South-West with respect to P, then in which direction is T, standing with respect to U?

- A. South-West
- B. North-East
- C. North-West
- D. Cannot be determined
- E. None of these

Answer: D

Explanation:

Here we have to go line by line to make the Direction table



So, now we can answer the given questions. For Q .20. No information is given that where is the person U is standing. So, we can't predict the direction of T with respect to U.

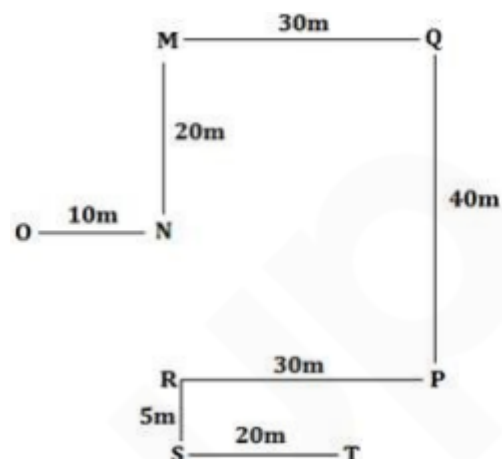
60. What is the direction of O with respect to S?

- A. North-West
- B. North
- C. West
- D. Cannot be determined
- E. None of these

Answer: A

Explanation:

Here we have to go line by line to make the direction table



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So, now we can answer the given questions. For Q 21. No information is given that where is the person U is standing. So, we can't predict the direction of T with respect to U.

61. Direction: The following question is followed by two statements named I and II. You have to decide, if these statements are sufficient to answer the asked questions and mark the correct option.

Who among P, Q, R, S and T each one having different weight is the third heaviest?

- i. Q is heavier than R and S. T is heavier only than P.
 - ii. Only three are lighter than R. The weight of Q is 50kg which is 2kg more than R. S is heavier only than P and T.
- A. If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question
 - B. If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
 - C. If the data either in statement I alone or in statement II alone are sufficient to answer the question.
 - D. If the data even in both statements I and II together are not sufficient to answer the question.
 - E. If the data in both statement I and II together are necessary to answer the question.

Answer: B

Explanation:

From statement I – Q, R/S, T, P

From statement II – Q (50), R (48), S, P/T

62. Direction: The following question is followed by two statements named I and II. You have to decide, if these statements are sufficient to answer the asked questions and mark the correct option

On which day of the week did Anu arrive?

- i. Her sister Tanu correctly remembers that
 - ii. She did not arrive on Wednesday. Her mother correctly mentions that she arrived before Friday but after Tuesday.
- A. If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
 - B. If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
 - C. If the data either in statement I alone or in statement II alone are sufficient to answer the question.
 - D. If the data even in both statements I and II together are not sufficient to answer the question.
 - E. If the data in both statement I and II together are necessary to answer the question

Answer: E

Explanation: From statement I and II together Anu arrive on Thursday.

63. Direction: The following question is followed by two statements named I and II. You have to decide, if these statements are sufficient to answer the asked questions and mark the correct option. How is Mohan related to Faizan?

- i. Faizan is the brother of Neelam who is mother of Rohan.

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- ii. II. Mohan has two brothers and Rohan is one of them.
- A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question
- B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question
- C. If the data either in statement I alone or in statement II alone is sufficient to answer the question
- D. If the data in both statements I and II even together is not sufficient to answer the question
- D. If the data in both statements I and II together is necessary to answer the question

Answer: D

Explanation:

In this type of question, we should start from statement I alone and then check the statement II alone.

If we are not able to answer the question from both the statements individually, merge both the statements and try to find the answer of the asked question. As,

From statement I it is given that Faizan is the brother of Neelam who is mother of Rohan.

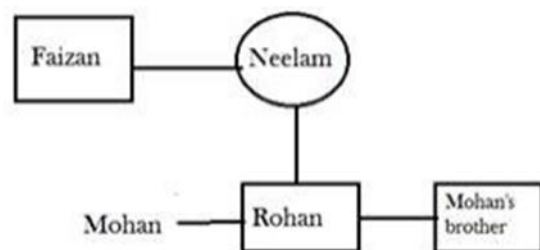
We can't answer the question using this statement alone because there is no relation given between Mohan and Faizan.

From statement II it is given that Mohan has two brothers and Rohan is one of them.

We can't answer the question using this statement alone as there is no relation given between Mohan and Faizan.

From statement I and II-

We have, 'Faizan is the brother of Neelam who is mother of Rohan' and 'Mohan has two brothers and Rohan is one of them'. We find the family tree as,



Although it is clear that Mohan is either nephew or niece of Faizan as gender of Mohan is not given. Hence, both the statements together are not sufficient to answer the question.

64. Direction: The following question is followed by two statements named I and II. You have to decide, if these statements are sufficient to answer the asked questions and mark the correct option. Among Puneet, Karishma, Daya and Ritik, who is son of Manvendra?

- i. Puneet and Karishma are sisters of Ritik.
- ii. Daya is the mother of Karishma and wife of Manvendra.
- A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question
- B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question

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- C. If the data either in statement I alone or in statement II alone is sufficient to answer the question
- D. If the data in both statements I and II even together is not sufficient to answer the question
- E. If the data in both statements I and II together is necessary to answer the question

Answer: D

Explanation:

In this type of question, we should start from statement I alone and then check the statement II alone.

If we are not able to answer the question from both the statements individually, merge both the statements and try to find the answer of the asked question. As,

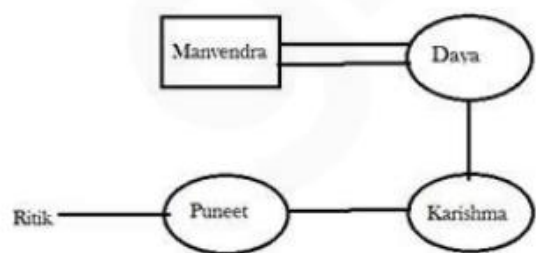
From statement II it is given that, 'Puneet and Karishma are sisters of Ritik'.

We can't answer the question as the relation between any of four of them with Manvendra is not given.

From statement I it is given that, 'Daya is the mother of Karishma and wife of Manvendra'.

We can't answer the question using this statement alone as we can only find the daughter of Manvendra who is Karishma but not the son.

From statement I and II Now we have, 'Puneet and Karishma are sisters of Ritik' and 'Daya is the mother of Karishma and wife of Manvendra'. Now, we can make a family tree as



Since, gender of Ritik is unknown, therefore we can't answer the question using even both the statements together.

65. Direction: The question below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. There are five persons named Suhana, Rashmi, Radha, Ranu and Zoya standing in a row facing south. Who is standing to the immediate left of Radha?

- i. Suhana is not standing on any of the extreme end of the row. Zoya is standing to the second left of Rashmi.
 - ii. II. Zoya is standing in the middle of the row. Suhana is standing at third to the left of Rashmi who is at the extreme right.
- A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question
 - B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question
 - C. If the data either in statement I alone or in statement II alone is sufficient to answer the question
 - D. If the data in both statements I and II even together is not sufficient to answer the question

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E. If the data in both statements I and II together is necessary to answer the question

Answer: D

Explanation:

In this type of question, we should start from statement I alone and then check the statement II Balone.

If we are not able to answer the question from both the statements individually, merge both the statements and try to find the answer of the asked question. As,

From statement I Given that, 'Suhana is not standing on any of the extreme end of the row. Zoya is standing to the second left of Rashmi'.

We can't answer the question using this statement alone because there are so many possibilities for the position of Radha.

From statement II Given that, 'Zoya is standing in the middle of the row. Suhana is standing at third to the left of Rashmi who is at the extreme right'.

Ranu/Radha Rashmi Zoya Radha/Ranu Suhana

OR Rashmi Ranu/Radha Zoya Suhana Radha/Ranu

We can't answer the question using this statement alone as the position of Radha is not clear.

From statement I and II Given that, 'Suhana is not standing on any of the extreme end of the row. Zoya is standing to the

Second left of Rashmi' and 'Zoya is standing in the middle of the row. Suhana is standing at

third to the left of Rashmi who is at the extreme right'.

⇒ Rashmi Ranu/Radha Zoya Suhana
Radha/Ranu

We can't answer the question even after using both the statements together as the position of Radha is still not clear.

66. Directions: Find out the wrong no. in the following series?

59, 60, 61, 64 79 ,185 ,1129

- A. 185
- B. 61
- C. 60
- D. 1129
- E. 79

Answer: A

Explanation: 59, 60, 61, 64 ,79 ,185 ,1129

The differences of the series is 1,315,106.....

This can be formed on the basis like

$1 \times 1, 1 \times 3, 3 \times 5, 15 \times 7$..so on

Hence the wrong no. is 185.

And this difference will be 110, so the wrong no. is 130

67. Directions: Find out the wrong no. in the following series?

330, 80, 280, 120, 250, 130, 240

- A. 330
- B. 130
- C. 240
- D. 120
- E. 250

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Answer: B

Explanation:

330, 80, 280, 120, 250, 130, 240

The difference of 330 and 80=250

The difference of 80 and 280=200

The difference of 280 and 120=160

The difference of 120 and 250=130

The difference of 250 and 130=120

68. Directions: Find out the wrong no. in the following series?

291, 147, 75, 39, 22,12,7.5

- A. 39
- B. 147
- C. 22
- D. 7.5
- E. 291

Answer: C

Explanation:

291, 147, 75, 39, 22,12,7.5

The series is

$291 - 147 = 144$

$147 - 75 = 72$

$75 - 39 = 36$

$39 - 22 = 17$ but this difference will be 18

So the wrong no. is 22

69. Directions: Find out the wrong no. in the following series?

1, 3, 9, 31, 129, 652

- A. 1
- B. 3
- C. 652
- D. 31
- E. 129

Answer: C

Explanation:

1, 3, 9, 31, 129, 652

The series is

$1 \times 1 + 2 = 3$

$3 \times 2 + 3 = 9$

$9 \times 3 + 4 = 31$ TM

$31 \times 4 + 5 = 129$

$129 \times 5 + 6 = 651$

Hence the no. 652 is wrong

70. Directions: Find out the wrong no. in the following series?

26, 27, 34, 58, 106, 186, 306

- A. 27
- B. 34
- C. 186
- D. 106
- E. 306

Answer: A

Explanation:

The series is

$26 + 12 - 1 = 26$

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$$26+32-1=34$$

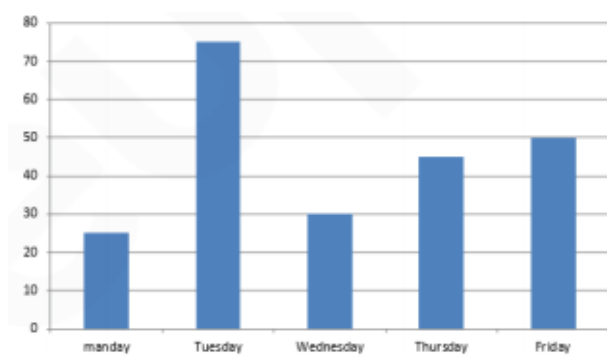
$$34+52-1=58$$

$$58+72-1=106 \text{ and so on.....}$$

Hence wrong no. is 27

Directions (71-75): Bar graph given below shows pens sold by a retailer on five different days. Study the data carefully and answer the following questions.

Pen sold on different days



71. Out of total pens sold on Tuesday ratio between total defective pens sold to total pens sold is 7: 15. Find total number of non - defective pens sold on Tuesday by retailer?

- A. 40
- B. 15
- C. 60
- D. 45
- E. 90

Answer: A

Explanation:

$$\text{Non defective pens sold on Thursday} = \frac{75}{15} \times 8 = 40$$

72. Total number of pens sold on Saturday is 40% more than total number of pens sold on Wednesday. Find total number of pens sold on Friday and Saturday together?

- A. 92
- B. 122
- C. 172
- D. 125
- E. 105

Answer: A

Explanation:

$$\text{Pens sold on Saturday} = 30 \times 1.4 = 42$$

$$\text{Pens sold on Friday and Saturday} = 50 + 42 = 92$$

73. Find the difference between total number of pens sold on Monday and Tuesday together to total number of pens sold on Thursday and Friday together?

- A. 25 TM
- B. 40
- C. 5
- D. 22
- E. 10

Answer: C

Explanation:

$$\text{Required difference} = 25 + 75 - 50 = 5$$

74. Total number of pens sold on Tuesday is 25% more than total number of pens sold on Sunday. Find total of pens sold on Sunday?

- A. 72
- B. 60
- C. 94
- D. 43
- E. 75

Answer: B

Explanation:

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Pens sold on Sunday = $\frac{75}{125} \times 100 = 60$

75. Out of the total pens sold on Thursday, 20% are blue ink pen. Out of remaining 25% are red ink pen and remaining are black in pen. Find total number of blue and black in pen. Find total no. of blue and black ink pen sold on Thursday?

- A. 36
- B. 46
- C. 56
- D. 66
- E. 55

Answer: A

Explanation:

Sale of blue ink pen on Thursday = $45 \times \frac{20}{100} = 9$

Sale of Red ink pen on Thursday = $(45 - 9) \times \frac{25}{100} = 9$

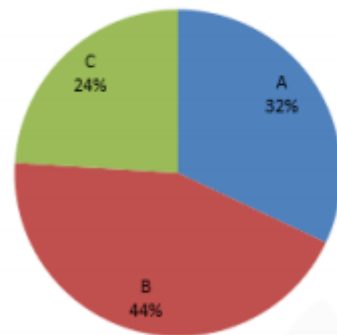
Sale of Black ink pen on Thursday = $(45 - 9) \times \frac{75}{100}$

= 27

Required sum = $9 + 27 = 36$

Direction (76-80): Pie chart given below shows total number of workers in three different companies. Table given below shows ratio between officers and workers working in these companies. Study the data carefully and answer the following questions

Sales



Company	Officers: Workers
A	1: 16
B	1: 18
C	1: 12

Note: total employees = officers + workers

76. Find the difference between total numbers of workers in company 'A' and total number of workers in company 'B' and 'C' together?

- A. 324
- B. 423
- C. 523
- D. 624
- E. 124

Answer: A

Explanation:

Required difference = $\frac{900}{100} \times (44 + 24 - 32) = 324$

77. Total number of employees in company 'B' is how much more than total number of employees in company 'C'.

- A. 184
- B. 176
- C. 225
- D. 265
- E. 125

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Answer: A

Explanation:

$$\text{Required difference} = 900 \times \frac{44}{100} \times \frac{19}{18} - 900 \times \frac{24}{100} \times \frac{13}{12} = 184$$

78. Total number of officers in company 'A' is how much less than total number of officers in company 'B'?

- A. 1
- B. 7
- C. 9
- D. 4
- E. 8

Answer: D

Explanation:

$$\text{Required difference} = 900 \times \frac{32}{100} \times \frac{9}{16} - 900 \times \frac{44}{100} \times \frac{1}{18} = 4$$

79. Find the ratio between total number of workers in company A and C together to total number of officers in company A and C together?

- A. 17: 1
- B. 12: 7
- C. 14: 1
- D. 18: 1
- E. 22: 3

Answer: C

Explanation:

$$\text{Required ratio} = 504:36$$

$$14:1$$

80. Total number of officers and workers in company D is 50% and 25% more than total number of officers and workers in company 'C' respectively. Find total number of employees in company 'D'?

- A. 297
- B. 279
- C. 972
- D. 927
- E. 227

Answer: A

Explanation:

Total no. of employees in company D =

$$900 \times \frac{24}{100} \times \frac{1}{12} \times 1.25 - 900 \times \frac{24}{100} \times 1.5 = 297$$

81. If a speed of boat is 500% more than the speed of a current.

Quantity I – 'X': If boat can travel a distance of 63 km/hr, in downstream then 'X' is the speed of the boat in upstream (km/hr.)

Quantity II- 15 km/hr

- A. Quantity I > Quantity II
- B. Quantity I < Quantity II
- C. Quantity I ≥ Quantity II
- D. Quantity I ≤ Quantity II
- E. Quantity I = Quantity II or No relation

Answer: E

Explanation: Quantity I:

Let speed of current = x

Speed of boat = x + 5x

Downstream speed = 7x

$$\frac{63}{7x} = X = 3$$

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Upstream speed = $6x - x = 5x = 15 \text{ km/hr}$

Quantity II - 15 km/hr

Hence Quantity I = Quantity II or No relation

82. Sum of 8 Consecutive even number is S1.
Quantity I – Sum of second number and eight number in S1

Quantity II – Sum of third number and sixth number in S1

- A. Quantity I > Quantity II
- B. Quantity I < Quantity II
- C. Quantity I \geq Quantity II
- D. Quantity I \leq Quantity II
- E. Quantity I = Quantity II or No relation

Answer: A

Explanation: Let no. be $x, x+2, x+4, x+6, \dots$

Quantity I = $x+2+x+14=2x+16$

Quantity II = $x+4+x+10=2x+14$

Hence

Quantity I > Quantity II

83. Quantity I. 'X': $X^2 + X - 6 = 0$

Quantity II. 'y': $y^2 + 7y + 12 = 0$

- A. Quantity I > Quantity II
- B. Quantity I < Quantity II
- C. Quantity I \geq Quantity II
- D. Quantity I \leq Quantity II
- E. Quantity I = Quantity II or No relation

Answer: A

Explanation:

Quantity I = $x = -3, 2$

Quantity II = $y = -4, -3$

Quantity I > Quantity II

84. An article is sold at Rs. 1500 after allowing discount of 12.5% on marked price.

Quantity I – Rs. 550

Quantity II – Marked price of article.

- A. Quantity I > Quantity II
- B. Quantity I < Quantity II
- C. Quantity I \geq Quantity II
- D. Quantity I \leq Quantity II
- E. Quantity I = Quantity II or No relation

Answer: A

Explanation:

Quantity I – Rs. 550

Quantity II – let Marked price of article = M

$$M \times \frac{7}{8} = 1500$$

$$M = \frac{12000}{7}$$

Hence Quantity I > Quantity II

86. A's efficiency is 25% more than B Quantity I – 'X': A can do 5/6th of total work in 'X' days

Quantity II – 'Y': B can do 4/5th of total work

in 'Y' days

- A. Quantity I > Quantity II
- B. Quantity I < Quantity II
- C. Quantity I \geq Quantity II
- D. Quantity I \leq Quantity II
- E. Quantity I = Quantity II or No relation

Answer: A

Explanation: Quantity I = 10 days

Quantity II = 12 days

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Hence Quantity 1 > Quantity 2

86. Sum of volume of cylinder (S) and volume of cone (C) is 2190π cm³ & height of both cylinder and cone is same i.e, 10 cm. if radius of cone is 15 cm find the ratio of radius of S to radius of C?

- A. 4:5
- B. 3:7
- C. 3:5
- D. 7:5
- E. 1:5

Answer: A

Explanation:

Let r, h be the dimensions of cylinder

And R, H be the dimensions of the cone

ATQ $h=H=10$

$$\pi r^2 + R^2 h = 2190\pi$$

$$r = 12$$

$$R = 15$$

So r: R = 4:5

87. Direction: Find the value of (?) in following approximation questions:

$$? \% \text{ of } 179.99 = \sqrt{(24.02)^2 + (17.98)^2} + 60.01\% \text{ of } 659.98$$

- A. 20
- B. 50
- C. 70
- D. 30
- E. 15

Answer: A

Explanation: ? = 20

88. Direction: Find the value of (?) in following approximation question

$$\frac{339.99}{?} = \sqrt{143.99} + \sqrt{64.01}$$

- A. 19
- B. 17
- C. 12
- D. 23
- E. 40

Answer: A

Explanation: ? = 17

89. Direction: Find the value of (?) in following approximation questions:

$$34.02\% \text{ of } 550.09 + ? = 297.07 + \sqrt{728.95}$$

- A. 147
- B. 22
- C. 18
- D. 37
- E. 57

Answer: A

Explanation: ? = 147

90. Direction: Find the value of (?) in following approximation questions:

$$2? = 32.01 + 128.01 \times 1023.99 + 7.99$$

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

Answer: A

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Explanation: $?=5$

91. Direction: Find the value of (?) in following approximation questions:

$$(? + 9.97) \times 12.8 = 20.12\% \text{ of } 1319.97$$

- A. 210
- B. 220
- C. 270
- D. 290
- E. 205

Answer: B

Explanation: $?=220$

Direction (92-96): There are three persons

A, B and C who each invested in two different scheme S1 and S2. A in invested Rs. 80,000 for 2 yr in scheme S1 and 30,000 for 4 years in scheme S2. B invested Rs 30,000 for year in S1 and he did not invest in scheme B. B also obtained a profit of 10,000 by selling his car. C invested Rs 50000 for 5 years in scheme S1 and 10000 for 3 year in scheme S2. Total profit obtained from scheme S1 is 2 lakh and scheme S2 is 90,000.

92. Profit obtained by A from scheme S1 is what percent of profit obtained by C from scheme S2.

- A. $326\frac{8}{9}\%$
- B. $317\frac{8}{9}\%$
- C. $326\frac{8}{9}\%$
- D. $335\frac{5}{9}\%$
- E. $355\frac{5}{9}\%$

Answer: D

Explanation: Ratio of profit of A, B and C in scheme S1

$$80000 \times 2 : 30000 \times 3 : 50000 \times 5$$

$$16:9:25$$

In scheme S1

$$\text{Profit of A} = 80000 \times 2 = 160000$$

$$\text{Profit of B} = 30000 \times 3 = 90000$$

$$\text{Profit of C} = 50000 \times 5 = 250000$$

Ration of profit of A and C in scheme S2

$$160000 : 250000 = 16 : 25$$

$$\text{Profit of A in scheme S2} = 160000 \times \frac{16}{25} = 102400$$

$$\text{Profit of B in scheme S2} = 90000 \times \frac{16}{25} = 57600$$

$$102400 \times 100 / 57600 = 177\frac{7}{9}\%$$

93. If A had invested his sum at Simple interest for 3 yr at the rate of R% p.a. instead in scheme S1 and B has invested his sum at compound interest at (R + 5%) p.a. for 1 year and difference in interest obtained is 30,000 then find value of R%.

- A. 15%
- B. 7%
- C. 5%
- D. 8%
- E. 2%

Answer: A

Explanation:

$$[(80000 \times R \times 3) / 100] - [30000 \times \{(R+5)/100\}] = 30000$$

$$R = 15\%$$

94. If sum of investment of A in both schemes and total profit obtained by A from both scheme is invested at compound interest

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at the rate of 20% p.a. then find the total compound interest obtained in 2 yr

- A. 106240
- B. 108240
- C. 102208
- D. 123480
- E. 106500

Answer: B

Explanation: Total investment of A=110000

Total profit of A=136000

Rate of interest =44%

CI= $x(136000+110000)=108240$

95. What is the average of profit attained by from scheme S1 and profit of C obtained from scheme S2?

- A. 43000
- B. 41000
- C. 54000
- D. 56000
- E. 47000

Answer: B

Explanation:

Required average==41000

96. What is the ratio of total profit obtained by B and profit obtained by C from scheme S1?

- A. 23: 47
- B. 54: 47
- C. 36: 43
- D. 23: 50
- E. 27: 50

Answer: D

Explanation:

Required ratio= $(36000+10000): 100000$

=23:50

97. What is the probability of forming word from the letters of word "IMPEACH" such that all vowels come together?

- A. $\frac{1}{7}$
- B. $\frac{4}{7}$
- C. $\frac{1}{7}$
- D. $\frac{4}{35}$
- E. $\frac{13}{35}$

Answer: A

Explanation:

Total numbers of ways $\rightarrow 7!$

Favorable numbers of ways $\rightarrow 5! \times 3!$

Probability $\rightarrow = 1/7$

98. Sum of A's and B's age 6 years ago is 88. A's age 18 yrs ago is equal to B's age 6 year ago. Find the age of a two year hence?

- A. 51 yrs
- B. 62 yrs
- C. 22 yrs
- D. 58 yr
- E. 18 yrs

Answer: D

Explanation:

Let present age of A be x yrs& present age of B be

y yrs.

ATQ

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$$X + y = 88 + 12$$

$$X + y = 100 \dots\dots (!)$$

$$X - 18 = y - 6$$

$$X - y = 12 \dots\dots (!!)$$

Solving (i) & (ii)

$$X = 56$$

Age of A 2 year here = 58 yrs

99. In a box there are 6 blue ball, X red balls & 10 green balls. Probability of choosing one red ball from the given box is $\frac{1}{3}$, then find the sum of red and blue balls in the box?

- A. 14
- B. 11
- C. 10
- D. 17
- E. 15

Answer: A

Explanation:

$$\text{ATQ} = X=8$$

Sum of red and blue ball=8+6=14

100. Train A of length 120 m can cross a platform of length 240m in 18 second the ratio of speed train A and Train B is 4: 5. The find the length of train B if train B can cross a pole in 12 seconds.

- A. 300m
- B. 330m
- C. 310m
- D. 370m
- E. 340m

Answer: A

Explanation:™

Let speed of train A be S

$$S \times 18 = 360S = 20 \text{ m/s}$$

$$A: B = 4: 5$$

$$A: B = 4: 5 \text{ Speed of B} = 25\text{m/s}$$

$$\text{Length of train B} = 25 \times 12 = 3$$

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