

Answers

1. Answer: a

Explanation:

The correct answer is ' **CABD** '.

★ Key Points

- After going through the sentence we find that:
 - Part **E** talks about retail supermarkets which is not relevant to the context.
 - So the odd part is **E**.
 - The sentence should begin with **C** followed by **A** which mentions that India is one of the largest centres for polishing gems and diamonds (as mentioned in part **B**).
 - Clearly, the next part is **B** which mentions that India is famous for polishing diamonds and gems.
 - The concluding part is **D** which mentions that India is also known as one of the largest centres for manufacturing jewellery.
 - Thus, only **CABD** can make a coherent sentence.
- **The correct sentence will be :** *India is one of the largest centres for polishing diamonds and gems and manufacturing jewellery.*

★ Additional Information

Manufacturing : making or producing

★ Hinglish

- वाक्य को पढ़ने के बाद हम पाते हैं:
 - भाग **E** खुदरा सुपरमार्केट के बारे में बात करता है जो संदर्भ के लिए प्रासंगिक नहीं है।
 - अतः विषम भाग **E** है।
 - वाक्य **C** से शुरू होना चाहिए और उसके बाद **A** होना चाहिए जिसमें उल्लेख किया गया है कि भारत रत्नों और हीरों को चमकाने के सबसे बड़े केंद्रों में से एक है (जैसा कि भाग **B** में बताया गया है)।
 - जाहिर है, अगला भाग **B** में उल्लेख है कि भारत हीरों और गहनों को खींचने के लिए प्रसिद्ध है।

- समापन भाग D है जिसमें उल्लेख किया गया है कि भारत को आभूषण निर्माण के सबसे बड़े केंद्रों में से एक के रूप में भी जाना जाता है।
- इस प्रकार, केवल CABD ही सुसंगत वाक्य बना सकता है।
- **The correct sentence will be:** India is one of the largest centres for polishing diamonds and gems and manufacturing jewellery.

2. Answer: c

Explanation:

The correct answer is ' EACB '.

★ Key Points

- After going through the sentence we find that:
 - **Part D** talks about India's infrastructure and transport sector which is not relevant to the context.
 - So, the odd part is **D**.
 - The sentence should begin with **E** followed by **A** which explains the meaning of the word ' **ethics** '
 - The next part should be **C** as it explains the role of ethics.
 - The last part is **B** which mentions that in order to answer various kinds of questions it uses reason.
 - Thus, only **EACB** can make a coherent sentence.
- **The correct sentence will be :** *The word ethics can refer to philosophical ethics or moral philosophy, disciplines that attempt to use reason to answer various kinds of ethical questions .*

★ Additional Information

Ethics : morals

Attempts : try or make an effort to achieve

3. Answer: a

Explanation:

The correct answer is ' **BEAD** '.

★ Key Points

- After going through the sentence we find that:
 - **Part C** talks about high-yielding varieties of seeds which is not relevant to the context.
 - So, the odd part is **C**.
 - The sentence should begin with **B** followed by **E** which mentions the impact of deforestation on rainforests and endemic rainforest species.
 - The next part is **A**. It informs us that habitat loss is another reason behind the rapid disappearance of rainforests and the endemic rainforest species.
 - The last part is **D** which concludes the sentence by mentioning another issue which is also harmful for rainforest.
 - Thus, only **BEAD** can only make a coherent sentence.
- **The correct sentence will be** : Rainforests as well as endemic rainforest species are rapidly disappearing due to deforestation, resulting in habitat loss and pollution of the atmosphere.

★ Additional Information

Endemic : a plant or animal which is native or restricted to a place

Disappearing : vanishing

Deforestation : the removal of a forest or the process of clearing a wide area of trees

Habitat : the natural home of an animal, plant or other living thing

4. Answer: b

Explanation:

The correct answer is ' **CDEB** '.

★ Key Points

- After going through the sentence we find that:
 - **Part A** talks about the Indian private sector which is not relevant to the context.
 - So, the odd part is **A**.
 - The sentence should begin with **C** followed by **D** which mentions that the states of awareness and states of experience are connected.
 - The next part should be **E**. ' **So that** ' is used here to show the purpose of the association which is previously mentioned in the sentence.
 - The concluding part is **B** as it talks about the reflection of the structure represented in awareness in the structure of experience.
 - Thus, only **CDEB** can make a coherent sentence.
- **The correct sentence will be :** *The states of awareness are also associated with the states of experience so that the structure represented in awareness is mirrored in the structure of experience .*

★ Additional Information

Awareness : consciousness or understanding

Associated : connected

Represented : stood for

Mirrored : reflected

5. Answer: c

Explanation:

The correct answer is ' **AEBD** '.

★ Key Points

- After going through the sentence we find that:
 - **Part C** talks about British territorial expansion which is not relevant to the context.
 - Hence, the odd part is **C**.
 - The sentence should begin with **A** followed by **E** which mentions what does gardening provide.
 - The next part should be **B**. From this part we understand that gardening can provide a feeling of self-sufficiency.
 - The last part is **D**. It informs us the reason behind the feeling of self-sufficiency.
 - Thus, only **AEBD** can make a coherent sentence.
- **The correct sentence will be :** *Gardening provides a powerful feeling of self-sufficiency by growing your own food .*

★ Additional Information

Provides : gives

Self-sufficiency : self-reliance or self-support

6. Answer: b Your Personal Exams Guide

Explanation:

The correct answer is **Separately** .

★ Key Points

- The given passage is about the **Reserve bank of India** .
- Let's read the sentence from the given passage: *The Reserve Bank of India on Friday asked the banks and other lenders to report the accounts restructured due to coronavirus ___ (1) ___ to credit bureaus .*
- From the above mentioned sentence we can infer that the RBI has asked the banks and other lenders to report to the credit bureaus regarding the account

restructured.

- The word '**separately**' which means 'one by one' or 'individually' is appropriate for the first blank because the banks should report separately.
- Hence, **option 2)** is the answer.

The complete sentence will be: *The Reserve Bank of India on Friday asked the banks and other lenders to report the accounts restructured due to coronavirus **separately** to credit bureaus .*

★ Additional Information

The meaning of the other given words:

- **Insatiable** : never satisfied
- **Grievously** : to a very serious degree
- **Intercept** : to stop someone or something so that it cannot reach its destination

7. Answer: d

Explanation:

The correct answer is **Modification** .

★ Key Points

- The given passage is about the **Reserve bank of India** .
- Let's read the sentence from the given passage: *Lenders should make necessary ___ (2) ___ to their system*
- From the above mentioned sentence we infer that the lenders were suggested to do something in order to solve the issue.
- The meaning of the word '**Modification**' is 'the action of modifying or changing something.' and it is appropriate for the blank because modification to the system may solve the issue.
- Hence, **option 4)** is the answer.

The complete sentence will be: *Lenders should make necessary **modification** to their system*

★ Additional Information

The meaning of the other given words:

- **Degenerate** : decline or grow worse
 - **Conjecture** : to guess or form an opinion about something
 - **Piteous** : pitiful
-

8. Answer: a

Explanation:

The correct answer is **report** .

★ Key Points

- The given passage is about the **Reserve bank of India** .
- Let's read the sentence from the given passage: ____ (3) ____ *it to credit bureaus within two months, the banking regulator said* .
- From the above mentioned sentence we infer that after the modification the lenders should inform the credit bureaus.
- Therefore, the word ' **report** ' is appropriate for the given sentence.
- Hence, **option 1)** is the answer.

The complete sentence will be: **report** *it to credit bureaus within two months, the banking regulator said* .

★ Additional Information

The meaning of the other given words:

- **Recuperate** : to get back to normal
 - **Reiterate** : to repeat or say again
 - **Fathom** : to understand
 - **Emend** : to make corrections
-

9. Answer: c

Explanation:

The correct answer is **Asked** .

★ Key Points

- The given passage is about the **Reserve bank of India** .
- Let's read the sentence from the given passage: *India Financial Institutions (Exim Bank, NABARD, NHB and SIDBI) and non-banking financial companies (including housing finance companies) were ___ (4) ___ to apprise the credit bureaus about restructuring the accounts .*
- From the above mentioned sentence we infer that the banks and lenders were told to report the credit bureaus about restructuring the accounts.
- Therefore, the word '**asked**' is appropriate for the first blank.
- Hence, **option 3** is the answer.

The complete sentence will be: *India Financial Institutions (Exim Bank, NABARD, NHB and SIDBI) and non-banking financial companies (including housing finance companies) were **asked** to apprise the credit bureaus about restructuring the accounts .*

★ Additional Information

The meaning of the other given words:

- **Terminate** : to bring to an end
- **Retort** : say in response
- **Perpetrated** : carried out

10. Answer: d

Explanation:

The correct answer is **Incorporate** .

★ Key Points

- The given passage is about the **Reserve bank of India** .
- Let's read the sentence from the given passage: *The regulator modified the format to ___ (5) ___ the restructuring of accounts due to COVID-19 .*
- From the above mentioned sentence we infer that the regulator modified the format to solve the issue.
- The word '**incorporate**' can be used here because the situation can be handled by absorbing or including the restructuring of accounts.
- Hence, **option 4)** is the answer.

The complete sentence will be: *The regulator modified the format to **incorporate** the restructuring of accounts due to COVID-19 .*

★ Additional Information

The meaning of the other given words:

- **Excluding** : keeping out
- **Detached** : disconnected
- **Existing** : in existence
- **Execute** : carry out

11. Answer: e

Explanation:

The correct answer is **Existing** .

★ Key Points

- The given passage is about the **Reserve bank of India** .
- Let's read the sentence from the given passage: *The ___ (6) ___ field 'account status' will have a new catalogue value, viz., 'restructured due to COVID-19' for MFI bureau .*

- From the above mentioned sentence we infer that the field 'account status' which is in operation at the current time will have something new.
- Therefore, the word '**Existing**' which means 'in existence' is appropriate for the sentence.
- Hence, **option 5**) is the answer.

The complete sentence will be: *The **existing** field 'account status' will have a new catalogue value, viz., 'restructured due to COVID-19' for MFI bureau .*

★ Additional Information

The meaning of the given words:

- **Exhilarate** : to make someone feel happy
- **Reconcile** : to bring back together again
- **Discern** : to find out or detect
- **Refined** : purified

12. Answer: a

Explanation:

The correct answer is 'A' i.e. this part of the sentence has an error.

★ Key Points

- In the first part of the given sentence, the plural form of the verb 'do' is incorrect .
- The subject 'Education' in the given sentence is a singular subject .
- We know that a singular subject always takes a singular verb .
- The singular form of the verb ' does ' should be used with the singular subject ' Education ' .
- Therefore, the singular form of the verb 'does' should be used in place of the plural form of the verb ' do ' .

Hence, the correct answer is option 1 .

Correct sentence: **Education does not** mean teaching people to know what they do not know; it means teaching them to behave as they do not behave .

★ Additional Information

- Subjects and verbs must agree with one another in number (singular or plural).
- Thus, if a subject is singular , its verb must also be singular ; if the subject is plural , its verb must also be plural .

13. Answer: a

Explanation:

The correct answer is 'A' i.e. this part of the sentence has an error .

★ Key Points

- In the first part of the given sentence, the noun ' **COVID-19 pandemic** ' is a specified noun .
 - The definite article ' the ' is used before singular and plural nouns when the noun is specific or particular .
- ' A ' and ' an ' are indefinite articles , which means that they refer to, or introduce, an unspecified noun .
 - We use ' a ' before a consonant sound and we use ' an ' before a vowel sound .
- "No article" is used when we refer to general ideas, plurals, or uncountable nouns .
- Therefore, the definite article ' the ' should be used in place of the indefinite article ' a ' .

Hence, the correct answer is option 1 .

Correct Sentence: **The COVID-19 pandemic is** an ongoing global pandemic of coronavirus disease 2019 caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2).

★ Additional Information

There are three articles: a, an, and the . Articles are used before nouns or noun equivalents and are a type of adjective.

RULES	COUNT NOUNS	NON-COUNT NOUNS
Specific identity not known	a, an	(no article)
Specific identity is known	the	the
All things or things in general	(no article)	(no article)

14. Answer: b

Explanation:

The correct answer is **Option (2) i.e. Only B**

★ Key Points

- Replace SQUARES with SQUARE .
- ' Square ' is an adjective(a unit) here while ' squares ' is a noun(a geometric figure).
- **Square** as an adjective is used before units of length when referring to the area of something.
 - Forexample , *if something is three meters long and two meters wide, its area is six square meters.*
- Hence, option 2 is the correct answer.

The correct sentence is :*My father gave me a five hundred square feet house from his property so that I can live a respectful life.*

15. Answer: c

Explanation:

The correct answer is '(B)'.

★ Key Points

Reading the sentence we find that:

- The adjective order ***some Mughal silver charming*** used in part B is incorrect.
- The order of cumulative adjectives is as follows: **quantity, opinion, size, temperature, age, color, shape, origin, and material**
- The sentence can be made correct if we reorder the adjectives in the following manner – **some charming Mughal silver (*quantity- opinion - age - material*)**

The correct sentence will be: *I bought **some charming Mughal silver** ornaments at the Hauz Khas market and enjoyed visiting the ruins yesterday.*

★ Additional Information

- When a number of adjectives are used together, the order depends on the function of the adjective. The usual order is:
 - quantity, value/opinion, size, temperature, age, shape, colour, origin, material

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What the adjective expresses	Examples
Quantity	four, ten, a few, several
Opinion	delicious, charming, beautiful
Size	tall, tiny, huge
Temperature	hot, cold
Age	old, young, new, 14-year-old
Shape	square, round
Colour	red, purple, green
Origin	Swedish, Victorian, Chinese
Material	glass, silver, wooden

- For example - I love the **beautiful old big green antique** car that is always parked at the end of the street. [quality – age – size – color – origin]

16. Answer: b

Explanation:

The correct answer is **-must bring their own costume-** the error lies in this part only.

★ Key Points

In the sentence, the error is in **part C** where the possessive pronoun **their** is incorrect.

- In the sentence, the teacher says that every girl should bring costume to participate in the competition. There is an emphasis that every girl should bring own costume.
- The usage of **their** is inappropriate in this context. 'Every girl' being singular noun, the correct possessive pronoun should be **her** instead of their.

Thus the correct sentence is: *The teacher said that every girl in the class must bring **her** own costume to participate in the dance competition.*

★ Additional Information

- **Possessive pronouns** indicate that something belongs to someone. These are never spelled with apostrophes. Commonly known possessive pronouns are my, our, your, his, her, its and their.
- There are **independent possessive pronouns (absolute possessive pronouns)** namely mine, ours, yours, his, hers, its and theirs, which are used without a noun. Examples:
 - My laptop is not working. Please give me yours.
 - Did you know that dress is mine?
 - The car parked on the street is theirs.

17. Answer: c

Explanation:

The correct answer is ' **call for fisheries to move away from** '.

★ Key Points

- In the given sentence, the use of 'call up' in the phrase 'call up fisheries to move away from' is incorrect.
- The phrasal verb '**call up**' means 'to order or summon together for a duty'. Considering the given sentence, it can be inferred that the environmentalists cannot order or summon the fisheries, as they do not have any such authority. Besides, they are not bringing the fisheries sector together for any duty. Thus, usage 'call up' is inappropriate.
- In the context of the sentence, it is most plausible that the environmentalists urge the fisheries to move away from harmful practices. Therefore, we need to find a phrasal verb that means 'to urge or request'. '**Call for**' means 'to make a request or demand'. Thus, the correct answer is **option 3**.

The correct sentence will be: *Environmentalists call for fisheries to move away from carbon-spewing engines and climate-harming practices such as bottom trawling.*

★ Additional Information

- '**Call in**' means to summon for one's help or consultation. Example: The officer called in the surveyor to oversee the implementation work.
- '**Call at**' means to stop at a place briefly. It is used while referring to a ship or a boat. Example: The ship called at the port for an hour.

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18. Answer: c

Explanation:

The correct answer is '**has been filmed chasing and eating**'.

★ Key Points

- In the given sentence, the verb form 'chase' used in the phrase 'has been filmed to chase and eating' is incorrect.
- The sentence talks about a Seychelles giant tortoise that was thought to be a strict herbivore. Considering the sentence, 'has been filmed to chase and

eating' is incorrect as per the **parallel structure/ parallelism rule**. While ' eating ' reflects present continuous tense, ' to chase ' indicates 'infinitive'. Thus, there is distortion in the parallel structure.

- The correct verb form should be in the present continuous tense. Hence, '**chasing**' is correct.
- Options 1 consists of incorrect verb form, so it is incorrect. Options 2 and 4 mention 'have', which is plural and thus incorrect while talking about a tortoise(singular noun).
- Therefore, the correct answer is **option 3**.

The correct sentence will be: *A Seychelles giant tortoise, a species previously thought to be a strict herbivore, has been filmed chasing and eating a baby bird in a 'horrific and amazing' attack, with researchers stating it was the first documented example of deliberate hunting in the wild by the species.*

★ Additional Information

- Parallelism, also referred to as parallel structure or parallel construction, is a grammatical balance within a sentence. It is the matching of the forms of words, phrases, or clauses in a sentence.

19. Answer: b

Explanation:

The correct answer is **a million rupees is**.

★ Key Points

- Whenever adjectives such as much, less, little and more are used as nouns, they are always followed by a singular verb.
 - **Ex**: a thousand rupees is required to take the ride.
- Also, the sentence is in the present form, hence, **option 3** is eliminated.
- So, **Option 2** is the only correct answer.

The correct sentence is: Amount of less than a million rupees is required right now. Take the money to the bank and withdraw it.

★ Additional Information

Countable and Uncountable nouns:

- Nouns can be **countable or uncountable** . Countable nouns can be counted, *e.g. an apple, two apples, three apples, etc.* Uncountable nouns cannot be counted, *e.g. air, rice, water, etc.*
- For positive sentences, we can use **a/an** for singular nouns or **some** for plurals.
 - There's **a**man at the door. I have **some** friends in New York.
- For negatives, we can use **a/an** for singular nouns or **any** for plurals.
 - I don't have **a**dog. There aren't **any** seats.
- We use '**some**' with uncountable nouns in positive sentences and '**any**' with negatives.
 - There's **some** milk in the fridge. There isn't **any** coffee

20. Answer: c

Explanation:

The correct answer is Utmost .

★ Key Points

- **Significant** : Important in effect or meaning
 - "a significant change in tax laws"
- **Utmost** : Of the greatest possible degree, extent or intensity
 - "utmost contempt"

Hence, the word ' significant ' should be replaced with ' utmost ' to form a contextually correct sentence.

It should read as:

The firm continues to place utmost significance on regulatory compliance and strives to fulfil supervisory standards, according to a press statement.

★ Additional Information

Let us understand the meaning of the other options:

- Finicky : Exacting especially about details
- Initiate : Take the lead or initiative in
- Partial : Being or affecting only a part; not total
- Subsequent : Following in time or order

21. Answer: a

Explanation:

The correct answer is **option 1, i.e. 'impertinent'** meaning '*not showing proper respect; rude.*'

From the sentence, it is very clear that the speaker is trying to highlight Shriya's irrelevant manner that outside she behaved respectfully but inside she shut the speaker in the most barefaced way, hence, judicious does not make sense.

The meaning of the other words-

- **Persistent** : continuing firmly or obstinately in an opinion or course of action in spite of difficulty or opposition
- **Relevant** : closely connected or appropriate to what is being done or considered
- **Permanent** : lasting or intended to last or remain unchanged indefinitely

22. Answer: b

Explanation:

The correct answer is **option 2 i.e. "fifty percentage of the quota"**

★ Key Points

- The passage states that *"Access will be consistent with the **actual balance of payments needs, capped at 50 percent of the quota**, and will be added to the current annual access limits under the RCF/RFI."*
- So, we can say that the highest limit on the actual balance of payments needs is capped at 50 percent of the quota.

Hence, the correct answer is fifty percentage of the quota.

23. Answer: c

Explanation:

The correct answer is **option 3** i.e **"driving up"**

★ Key Points

- Drive up:
 - **Grammatical class:** phrasal verb.
 - **Meaning:** Increase in value, price or amount of something.
 - **Example:** The on going famine is driving up the inflation.

Hence, the correct answer is **driving up**.

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24. Answer: a

Explanation:

The correct answer is **option 1** i.e **only II and III**.

★ Key Points

- Acute:
 - **Meaning:** Extreme, severe or becoming dangerous
 - **Synonyms:** Grave, profound, excruciating
 - **Antonym:** Mild.

- "I) *She is doing this work since the last two years hence she can do it acute.*"
 - This sentence doesn't make any sense.
- "II) *His grand father is suffering from an acute disease.*"
 - Which means his grandfather is suffering from a serious illness.
- "III) *There is an acute connection between political instability and civil war.*"
 - Which means there is a strong relationship between political instability and civil war.

Hence, only **sentence II and III are correct.**

25. Answer: b

Explanation:

The correct answer is **option 2** i.e. "International Monetary Fund"

★ Key Points

- The full form of IMF is given in the very first line of the passage.
- "The **International Monetary Fund (IMF)** Executive Board approved on September 30 a new, temporary Food Shock Window (FSW) under its emergency financing instruments."

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26. Answer: c

Explanation:

The correct answer is **option 3** i.e. "Countries are allowed to monitor the programme if they fulfil some criteria"

★ Key Points

- According to the context of the passage option 3 is correct.
- The passage states that,

- *"The Executive Board also amended the policy for Staff-Monitored Programs (SMPs), to allow for Program Monitoring with Board involvement (PMB)."*
- *"Countries considering an SMP would be encouraged to request a PMB if they are the subject of an ongoing concerted international effort by creditors or donors to provide substantial new financing or debt relief, or have significant outstanding Fund credit under emergency financing instruments."*

Hence, option 3 can be inferred from the passage.

27. Answer: d

Explanation:

The correct answer is **option 4** i.e. *"Any country in the world which is suffering from food shortage can avail the assistance"*

★ Key Points

- According to the passage the criteria for availing the financial assistant are:
 - *"The Food Shock Window will provide, for a period of a year, a new channel for emergency Fund financing to member countries that have an urgent balance of payment needs"*
 - The country should be a member IMF
 - The country must have **an urgent balance of payment needs** due to:
 1. acute food insecurity, or
 2. a sharp increase in their food import bill, or
 3. a shock to their cereal exports.

Hence, **option 4 is incorrect.**

28. Answer: b

Explanation:

The correct answer is **option 2** i.e. *"The IMF will consider the transactions between the country and rest of the world before giving any financial assistance ."*

★ Key Points

- It is given that *"Access will be consistent with the actual **balance of payments** needs, capped at 50 percent of the quota"*
 - Short definition of Balance of payment is record of transactions of a country during specific period.
- Hence, *"the IMF will consider the **transactions between the country and rest of the world before giving any financial assistance**"* is the correct answer.

★ Additional Information

- **Option 1:** *"The Financial aid will be provided according to the demand of the countries."*
 - This option is incorrect because it is given that the criteria to decide amount of the assist is the balance of payment.
- **Option 3:** *"The access to the financial assistance will be fix in value even for future"*
 - This option is incorrect because it is given that *"The cumulative access limits under the RFI regular window and the RCF exogenous shock window, **currently at 150 percent of quota, will be increased to 175 percent of quota** for members that will borrow through the FSW."*
- **Option 4:** *"The Financial assistance program will be a responsibility of the executive board only"*
 - This option is incorrect because it is given that *"**The Executive Board's role will be limited to assessing the robustness of the member's policies to meet the program's objectives and to monitoring program implementation, including policies aiming to facilitate the transition to an upper credit tranche (UCT) quality IMF-supported program.**"*
- **Option 5:** *"The food stock window will help the affected countries till the supply chain get normalize."*

- This option is incorrect because it is given that "*The Food Shock Window will provide, for a period of a year, a new channel for emergency Fund financing to member countries that have an urgent balance of payment needs due to acute food insecurity, a sharp increase in their food import bill, or a shock to their cereal exports.*"

29. Answer: c

Explanation:

The correct answer is **option 3** i.e. "**reduce**"

★ Key Points

- **Exacerbated:**
 - **Meaning:** To make something more severe.
 - **Example:** The ongoing food shortage has been exacerbated by supply chain disruption.
 - **Synonyms:** Inflame, Intensify, Increase.
 - **Antonyms:** Placate, Soothe, Reduce.
- **Reduce:**
 - **Meaning:** To make something less in size or quantity.
 - **Example:** He started exercise to reduce his weight.
 - **Synonyms:** Dwindle, Shrink, Minimize.
 - **Antonyms:** Expand, Prolong, Amplify.

★ Additional Information

- **Intensify:**
 - **Meaning:** To make something stronger.
 - **Example:** Refugee crisis intensified tensions between the neighbouring countries.
 - **Synonyms:** Boost, Augment, Escalate.
 - **Antonyms:** Debase, degrade, Depress.
- **Amplify:**
 - **Meaning:** To make something larger or greater.

- **Example:** This device is used to amplify sound.
- **Synonyms:** Louden, Magnify, Raise.
- **Antonyms:** Curtail, Lower, Lessen.
- **Augment:**
 - **Meaning:** To make something more intense.
 - **Example:** She bought new books to augment her knowledge.
 - **Synonyms:** Strengthen, Enhance, Multiply.
 - **Antonyms:** Reduce, Lower, Degrade.

30. Answer: b

Explanation:

The correct answer is **option 2** i.e. "**drive**"

★ Key Points

- **Push**(in the context of the passage): move something
 - **Example:** The inflation pushed many families into poverty.
 - **Synonyms:** Send, Drive, Thrust.
 - **Antonym:** Recede, Pull, Repulsion
- **Drive**(in the context of the passage): to force or push something
 - **Example:** The modern infrastructure will drive economic growth.
 - **Synonyms:** Push, Propel, Prompt.
 - **Antonyms:** Deter, restrain, slow.

★ Additional Information

- **increase:**rise in amount
 - **Example:**Perihelion is responsible for increase in temperature during summer.
 - **Synonyms:**Shoot up, Soar, Surge
 - **Antonyms:**Decline, Reduction, Drop
- **insolent:**a person who intentionally doesn't show respect.
 - **Example:** Her principal used to call her an insolent girl
 - **Synonyms:** Impolite, Unmannered, Disrespectful

- **Antonyms:** Civil, well mannered, Modest
 - **throes:** Severe pain or difficult.
 - **Example:** She had a minor accident last week and since then she is in throes.
 - **Synonyms:** Pain, Suffering, Torment.
 - **Antonyms:** Comfort, Healthy, Relief
 - **sobriquet:** Official title or nickname
 - **Example:** Akbar-II gave "Raja" sobriquet to Ram Mohan Roy.
 - **Synonyms:** Title, epithet, Designation.
-

31. Answer: e

Explanation:

The total number of male adults in four cities = 2700

$$\Rightarrow 40p + 30p + 20p + 18p = 2700$$

$$\Rightarrow 108p = 2700$$

$$\Rightarrow p = 25$$

The ratio of male to female adults in city B, C and D is 5:3, 5:6 and 9:11 respectively

	Male Adults	Female Adults	Total Adults	of children out of total adult
A	$40p = 40 \times 25 = 1000$			
B	$30p = 30 \times 25 = 750$	$(750/5) \times 3 = 450$	$750 + 450 = 1200$	$10\% \text{ of } 1200 = 120$
C	$20p = 20 \times 25 = 500$	$(500/5) \times 6 = 600$	$500 + 600 = 1100$	$12\% \text{ of } 1100 = 132$
D	$18p = 18 \times 25 = 450$	$(450/9) \times 11 = 550$	$450 + 550 = 1000$	$18\% \text{ of } 1000 = 180$
Total	2700			

The number of female adults in city A = $450 + 250 = 700$

The total number of female adults in city A, B and D together = $700 + 450 + 550$
 $\Rightarrow 1700$

32. Answer: e

Explanation:

The total number of male adults in four cities = 2700

$$\Rightarrow 40p + 30p + 20p + 18p = 2700$$

$$\Rightarrow 108p = 2700$$

$$\Rightarrow p = 25$$

The ratio of male to female adults in city B, C and D is 5:3, 5:6 and 9:11 respectively

		Male Adults	Female Adults	Total Adults	of children out of total adult
	A	$40p = 40 \times 25 = 1000$			
	B	$30p = 30 \times 25 = 750$	$(750/5) \times 3 = 450$	$750 + 450 = 1200$	$10\% \text{ of } 1200 = 120$
	C	$20p = 20 \times 25 = 500$	$(500/5) \times 6 = 600$	$500 + 600 = 1100$	$12\% \text{ of } 1100 = 132$
	D	$18p = 18 \times 25 = 450$	$(450/9) \times 11 = 550$	$450 + 550 = 1000$	$18\% \text{ of } 1000 = 180$
	Total	2700			

$$\text{Required \%} = (120/180) \times 100$$

$$\Rightarrow 66.66\%$$

33. Answer: d

Explanation:

The total number of male adults in four cities = 2700

$$\Rightarrow 40p + 30p + 20p + 18p = 2700$$

$$\Rightarrow 108p = 2700$$

$$\Rightarrow p = 25$$

The ratio of male to female adults in cities B, C, and D is 5:3, 5:6, and 9:11 respectively

	Male Adults	Female Adults	Total Adults	children out of total adult
A	$40p = 40 \times 25 = 1000$			
B	$30p = 30 \times 25 = 750$	$(750/5) \times 3 = 450$	$750 + 450 = 1200$	$10\% \text{ of } 1200 = 120$
C	$20p = 20 \times 25 = 500$	$(500/5) \times 6 = 600$	$500 + 600 = 1100$	$12\% \text{ of } 1100 = 132$
D	$18p = 18 \times 25 = 450$	$(450/9) \times 11 = 550$	$450 + 550 = 1000$	$18\% \text{ of } 1000 = 180$
Total	2700			

The total number of children in city B and C together = $120 + 132 = 252$

Male adults in city C = 500

Required % = $(252/500) \times 100$

$\Rightarrow 50.4\%$

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34. Answer: d

Explanation:

The total number of male adults in four cities = 2700

$\Rightarrow 40p + 30p + 20p + 18p = 2700$

$\Rightarrow 108p = 2700$

$\Rightarrow p = 25$

The ratio of male to female adults in city B, C and D is 5:3, 5:6 and 9:11 respectively

	Male Adults	Female Adults	Total Adults	of children out of total adult
A	$40p = 40 \times 25 = 1000$			
B	$30p = 30 \times 25 = 750$	$(750/5) \times 3 = 450$	$750 + 450 = 1200$	$10\% \text{ of } 1200 = 120$
C	$20p = 20 \times 25 = 500$	$(500/5) \times 6 = 600$	$500 + 600 = 1100$	$12\% \text{ of } 1100 = 132$
D	$18p = 18 \times 25 = 450$	$(450/9) \times 11 = 550$	$450 + 550 = 1000$	$18\% \text{ of } 1000 = 180$
Total	2700			

Given that, the ratio of male adults to female adults in city A = 10:7

The number of female adults in city A = $(1000/10) \times 7 = 700$

Required ratio = $(700 + 450 + 600 + 550) : (1000 + 750)$

$\Rightarrow 2300 : 1750$

$\Rightarrow 46:35$

35. Answer: c

Explanation:

The total number of male adults in four cities = 2700

$\Rightarrow 40p + 30p + 20p + 18p = 2700$

$\Rightarrow 108p = 2700$

$\Rightarrow p = 25$

The ratio of male to female adults in city B, C and D is 5:3, 5:6 and 9:11 respectively

		Male Adults	Female Adults	Total Adults	of children out of total adult
	A	$40p = 40 \times 25 = 1000$			
	B	$30p = 30 \times 25 = 750$	$(750/5) \times 3 = 450$	$750 + 450 = 1200$	10% of 1200 = 120
	C	$20p = 20 \times 25 = 500$	$(500/5) \times 6 = 600$	$500 + 600 = 1100$	12% of 1100 = 132
	D	$18p = 18 \times 25 = 450$	$(450/9) \times 11 = 550$	$450 + 550 = 1000$	18% of 1000 = 180
	Total	2700			

Required % = (Female adults in city B/total number of adults in city D) $\times$ 100

$\Rightarrow (450/1000) \times 100$

$\Rightarrow 45\%$

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36. Answer: d

Explanation:

Follow BODMAS rule to solve this question, as per the order given below,

Step - 1: Parts of an equation enclosed in 'Brackets' must be solved first, and follow BODMAS rule in the bracket,

Step - 2: Any mathematical 'Of' or 'Exponent' must be solved next,

Step - 3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step – 4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Since, we need to find out the approximate value,

So, we can write these values to their nearest integers.

Given expression is

$$19.99\% \text{ of } 119.99 + \sqrt[3]{216.06} - \sqrt{624.99} = ?$$

$$20\% \text{ of } 120 + \sqrt[3]{216} - \sqrt{625} = ?$$

$$\Rightarrow 24 + 6 - 25 = ?$$

$$\Rightarrow 30 - 25 = ?$$

$$\Rightarrow ? = 5$$

37. Answer: a

Explanation:

Follow BODMAS rule to solve this question, as per the order is given below:

Step-1: Parts of an equation enclosed in 'Brackets' must be solved first and in the bracket,

Step-2: Any mathematical 'Of' or 'Exponent' must be solved next,

Step-3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step-4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

$$(\sqrt{63.99}) \times 149.99\% - 175.99 \div 22.22 = ?$$

$$(\sqrt{64}) \times 150\% - 176 \div 22 = ?$$

$$\Rightarrow 8 \times 1.5 - 8 = ?$$

$$\Rightarrow 12 - 8 = ?$$

$$\Rightarrow 4 = ?$$

38. Answer: c

Explanation:

Follow BODMAS rule to solve this question, as per the order is given below:

Step-1: Parts of an equation enclosed in 'Brackets' must be solved first and in the bracket,

Step-2: Any mathematical 'Of' or 'Exponent' must be solved next,

Step-3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step-4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

$$(76.87 \times 10.99 \div 6.97 + 1.99) \div \sqrt[3]{26.99} = ?$$

$$(77 \times 11 \div 7 + 2) \div \sqrt[3]{27} = ?$$

$$\Rightarrow ? = (121 + 2) \div 3$$

$$\Rightarrow ? = 123/3$$

$$\Rightarrow ? = 41$$

39. Answer: d

Explanation:

Follow BODMAS rule to solve this question, as per the order is given below:

Step-1: Parts of an equation enclosed in 'Brackets' must be solved first and in the bracket,

Step-2: Any mathematical 'Of' or 'Exponent' must be solved next,

Step-3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step-4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated

$$49.827\% \text{ of } 1119.61 - ?\% \text{ of } 1600.092 = 79.762$$

$$\Rightarrow 50\% \text{ of } 1120 - ?\% \text{ of } 1600 = 80$$

$$\Rightarrow 560 - 16 \times ? = 80$$

$$\Rightarrow 560 - 80 = 16 \times ?$$

$$\Rightarrow 480 = 16 \times ?$$

$$\Rightarrow ? = 480/16$$

$$\therefore ? = 30$$

40. Answer: a

Explanation:

Follow BODMAS rule to solve this question, as per the order given below,

Step - 1: Parts of an equation enclosed in 'Brackets' must be solved first, and follow BODMAS rule in the bracket,

Step - 2: Any mathematical 'Of' or 'Exponent' must be solved next,

Step – 3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step – 4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Since, we need to find out the approximate value,

So, we can write these values to their nearest integers.

Given expression is

$$(34.85)^2 - (18.99)^2 - (5.01)^3 = ?$$

$$\Rightarrow ? \approx (35)^2 - (19)^2 - (5)^3$$

$$\Rightarrow ? = 1225 - 361 - 125$$

$$\Rightarrow ? = 739$$

41. Answer: a

Explanation:

Given:

Time taken to complete a work by A = 60 days

B is 25% more efficient than A

(A + B) worked together = 15 days

Time taken to complete the remaining work by C = 14 days

Formula used:

Work = Efficiency × Time

Calculation:

Let the efficiency of A be x

B is 25% more efficient than A

$$\Rightarrow (25/100)x = 1x/4$$

Efficient of A = 4

Efficient of B = $(4 + 1) = 5$

Total work = $(4 \times 60) = 240$ units

A and B worked together for 15 days = $[(5 + 4) \times 15]$

$$\Rightarrow (9 \times 15) = 135 \text{ units}$$

Remaining work = $(240 - 135) = 105$ units

Time taken to complete the remaining work by C = $(105/14)$

$$\Rightarrow 15/2 = 7.5$$

Time taken by B and C to complete the $5/8^{\text{th}}$ part of original work = $[240/(5 + 7.5) \times 5/8]$

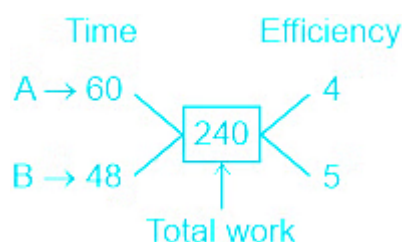
$$\Rightarrow (240/12.5 \times 5/8)$$

$$\Rightarrow (6 \times 2)$$

$$\Rightarrow 12 \text{ days}$$

$\therefore$ The required time is 12 days

★ Shortcut Trick



So, total efficiency of A and B = 9

In 15 days work of A + B = $9 \times 15 = 135$ units

Remaining $(240 - 135) = 105$ units will complete by C in 14 days

So, C in one day = 7.5 units

Time taken by B and C to complete the $\frac{5}{8}$ th part of original work = $[240 / (5 + 7.5) \times \frac{5}{8}] = 12$ days

42. Answer: e

Explanation:

Given:

The ratio of speed of boat in still water and the current speed is 4:3

total time taken by boat in both downstream and upstream speed is 48 hours

Formula used:

Speed of downstream = Speed of the boat + Speed of the stream

Speed of upstream = Speed of the boat - Speed of the stream

Distance = Speed $\times$ Time

Calculation:

Let $4x$ and $3x$ be the Speed of boat and stream,

According to the question,

$$\frac{126}{4x+3x} + \frac{126}{4x-3x} = 48$$

$$\frac{126}{7x} + \frac{126}{x} = 48$$

$$\frac{18}{x} + \frac{126}{x} = 48$$

$$\frac{144}{x} = 48$$

$$\frac{144}{48} = x$$

$$x = 3$$

Speed of the boat in still water = $4x$

$$= 4(3)$$

$$= 12 \text{ km/hr}$$

Answer is 12 km/hr.

43. Answer: d

Explanation:

Given:

Total deposit = Rs. 16500

$$R_1 = 10\%$$

$$R_2 = 12\%$$

Time = 2 years

Total interest = Rs. 3620

Concept Used:

$$SI = \frac{PRT}{100}$$

Calculation:

Suppose,

Rs. x is deposited at 10%

Rs. $(16500 - x)$ at 12%

As we know,

$$\Rightarrow SI = \frac{PRT}{100}$$

According to the question

$$(x \times 10 \times 2)/100 + [(16500 - x) \times 12 \times 2]/100 = 3620$$

$$\Rightarrow 20x/100 + (396000 - 24x)/100 = 3620$$

$$\Rightarrow 20x + 396000 - 24x = 362000$$

$$\Rightarrow 24x - 20x = 396000 - 362000$$

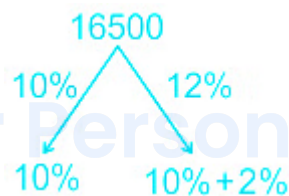
$$\Rightarrow 4x = 34000$$

$$\Rightarrow x = 34000/4$$

$$\Rightarrow x = \text{Rs. } 8500$$

$$\therefore \text{Amount invested at 12\%} = 16500 - 8500 = \text{Rs. } 8000$$

★ Shortcut Trick



$$\Rightarrow SI \text{ for 2 years} = 3620$$

$$\Rightarrow SI \text{ for 1 year} = 3620/2 = 1810$$

Let Rs. x be invested at 12%

$$\Rightarrow 10\% \text{ of } 16500$$

$$\Rightarrow 1650$$

$$2\% \text{ of } x = 1810 - 1650$$

$$\Rightarrow x \times 2/100 = 160$$

$$\therefore x = \text{Rs. } 8000$$

44. Answer: b

Explanation:

if the height of the right angle triangle is 24 cm, and the area of the triangle is 168 sq. cm.

Area of right angle triangle

$$= \frac{1}{2}bh = 168$$

$$b = \frac{168}{12} = 14 \text{ cm}$$

The perimeter of the rectangle is 84 cm.

The base of a triangle is equal to the breadth of a rectangle.

$$\text{So, } 2(l+b) = 84$$

$$2l + 2 \times 14 = 84$$

$$L = (56/2) = 28\text{cm}$$

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45. Answer: d

Explanation:

Given:

Total mixture A = 250

The ratio of water to milk in mixture A is 4:1.

The ratio of water to milk in mixture B is 5:7

Mixture B has 25 liters of water.

Calculation:

$$\text{Water in mixture A} = 250 / (4+1) \times 4$$

$$\Rightarrow 200 \text{ liters}$$

$$\text{And milk in mixture A} = 250 / (4+1) \times 1$$

$$\Rightarrow 50 \text{ liters}$$

$$\text{Milk in mixture B} = 25 / 5 \times 7$$

$$\Rightarrow 35 \text{ liters}$$

Now 40% of mixture A is taken to make mixture C

$$\text{So milk taken from mixture A to make mixture C} = 50 \times 40 / 100$$

$$\Rightarrow 20 \text{ liters}$$

$$\text{And water taken from mixture A to make mixture C} = 200 \times 40 / 100$$

$$\Rightarrow 80 \text{ liters}$$

80% of mixture B is taken to make mixture C

$$\text{So Milk taken from mixture B to make mixture C} = 35 \times 80 / 100$$

$$\Rightarrow 28 \text{ liters}$$

$$\text{And water taken from mixture B to make mixture C} = 25 \times 80 / 100$$

$$\Rightarrow 20 \text{ liters}$$

In mixture C

$$\text{Total milk} = (\text{Milk taken from mixture A} + \text{Milk taken from mixture B})$$

$$\Rightarrow 20 + 28 = 48 \text{ liters}$$

$$\text{Total water} = (\text{Water taken from mixture A} + \text{Water taken from mixture B})$$

$$\Rightarrow 80 + 20$$

⇒ 100 liters

The ratio of Milk to Water in mixture C = 48:100

⇒ 12:25

46. Answer: d

Explanation:

$$\text{I. } x^2 + 18x + 77 = 0$$

$$\Rightarrow x^2 + 7x + 11x + 77 = 0$$

$$\Rightarrow x(x + 7) + 11(x + 7) = 0$$

$$\Rightarrow (x + 7)(x + 11) = 0$$

$$\Rightarrow x = -7, -11$$

$$\text{II. } 4y^2 + 31y + 21 = 0$$

$$\Rightarrow 4y^2 + 3y + 28y + 21 = 0$$

$$\Rightarrow y(4y + 3) + 7(4y + 3) = 0$$

$$\Rightarrow (4y + 3)(y + 7) = 0$$

$$\Rightarrow y = -3/4, -7$$

Value of x	Value of y	Relation
-7	$-\frac{3}{4}$	$x < y$
-7	-7	$x = y$
-11	$-\frac{3}{4}$	$x < y$
-11	-7	$x < y$

Hence, $x \leq y$

47. Answer: b

Explanation:

$$\text{I. } 2x^2 - 33x + 136 = 0$$

$$\Rightarrow 2x^2 - 16x - 17x + 136 = 0$$

$$\Rightarrow 2x(x - 8) - 17(x - 8) = 0$$

$$\Rightarrow (x - 8)(2x - 17) = 0$$

$$\Rightarrow x = 8, \frac{17}{2}$$

$$\text{II. } 2y^2 - 37y + 171 = 0$$

$$\Rightarrow 2y^2 - 18y - 19y + 171 = 0$$

$$\Rightarrow 2y(y - 9) - 19(y - 9) = 0$$

$$\Rightarrow (y - 9) (2y - 19) = 0,$$

$$\Rightarrow y = 9, 19/2$$

Value of x	Value of y	Relation
8	9	$x < y$
8	$19/2$	$x < y$
$17/2$	9	$x < y$
$17/2$	$19/2$	$x < y$

Hence $x < y$

48. Answer: e

Explanation:

$$\text{I. } 5x^2 - 38x + 65 = 0$$

$$\Rightarrow 5x^2 - 25x - 13x + 65 = 0$$

$$\Rightarrow 5x(x - 5) - 13(x - 5) = 0$$

$$\Rightarrow (x - 5)(5x - 13) = 0$$

$$\Rightarrow x = 5, 13/5$$

$$\text{II. } 5y^2 - 19y - 30 = 0$$

$$\Rightarrow 5y^2 + 6y - 25y - 30 = 0$$

$$\Rightarrow y(5y + 6) - 5(5y + 6) = 0$$

$$\Rightarrow (5y + 6)(y - 5) = 0$$

$$\Rightarrow y = -6/5, 5$$

Value of x	Value of y	Relation
5	-6/5	$x > y$
5	5	$x = y$
13/5	-6/5	$x > y$
13/5	5	$x < y$

Hence, relationship between x and y cannot be established.

49. Answer: a

Explanation:

$$I. 12x^2 + 11x + 2 = 0$$

$$\Rightarrow 12x^2 + 3x + 8x + 2 = 0$$

$$\Rightarrow 3x(4x + 1) + 2(4x + 1) = 0$$

$$\Rightarrow (4x + 1)(3x + 2) = 0$$

$$\Rightarrow x = -1/4, -2/3$$

$$\text{II. } y^2 + 20y + 99 = 0$$

$$\Rightarrow y^2 + 11y + 9y + 99 = 0$$

$$\Rightarrow y(y + 11) + 9(y + 11) = 0$$

$$\Rightarrow (y + 11)(y + 9) = 0$$

$$\Rightarrow y = -11, -9$$

Value of x	Value of y	Relation
-2/3	-11	$x > y$
-2/3	-9	$x > y$
-1/4	-11	$x > y$
-1/4	-9	$x > y$

Hence, $x > y$

50. Answer: b

Explanation:

$$\text{I. } 2x^2 - 19x + 24 = 0$$

$$\Rightarrow 2x^2 - 3x - 16x + 24 = 0$$

$$\Rightarrow x(2x - 3) - 8(2x - 3) = 0$$

$$\Rightarrow (2x - 3)(x - 8) = 0$$

$$\Rightarrow x = 3/2, 8$$

$$\text{II. } y^2 - 25y + 144 = 0$$

$$\Rightarrow y^2 - 9y - 16y + 144 = 0$$

$$\Rightarrow y(y - 9) - 16(y - 9) = 0$$

$$\Rightarrow (y - 9)(y - 16) = 0$$

$$\Rightarrow y = 9, 16$$

Value of x	Value of y	Relation
3/2	9	$x < y$
3/2	16	$x < y$
8	9	$x < y$
8	16	$x < y$

Hence, $x < y$

51. Answer: c

Explanation:

Putting all the values in a table we get

Warehouse	Total displaced quantities (P + Q)	Displaced quantities of 'P' type	Displaced quantities of 'Q' type
A	750	350	$750 - 350 = 400$
B	600	250	$600 - 250 = 350$
C	650	400	$650 - 400 = 250$
D	800	350	$800 - 350 = 450$
Total	2800	1350	1450

Average number of 'Q' type of 'quantities' displaced by warehouses 'B', 'C', and 'D' = $(350 + 250 + 450)/3 = 350$

Hence, the correct answer is 350.

52. Answer: c

Explanation:

Putting all the values in a table we get

Warehouse	Total displaced quantities (P + Q)	Displaced quantities of 'P' type	Displaced quantities of 'Q' type
A	750	350	$750 - 350 = 400$
B	600	250	$600 - 250 = 350$
C	650	400	$650 - 400 = 250$
D	800	350	$800 - 350 = 450$
Total	2800	1350	1450

The total cost beared by all four warehouses from selling all 'P' type of quantities = $275 \times 1350 = 371250$ Rs.

Hence, the correct answer is 371250 Rs.

53. Answer: c

Explanation:

Putting all the values in a table we get

Warehouse	Total displaced quantities (P + Q)	Displaced quantities of 'P' type	Displaced quantities of 'Q' type
A	750	350	$750 - 350 = 400$
B	600	250	$600 - 250 = 350$
C	650	400	$650 - 400 = 250$
D	800	350	$800 - 350 = 450$
Total	2800	1350	1450

The number of 'Q' type of displaced 'quantities' for warehouse 'E' = $(13/8) \times 400 = 650$

The number of 'P' type of displaced 'quantities' for warehouse 'E' = $650 + 250 = 900$

Total number of quantities displaced by warehouse 'E' = $650 + 900 = 1550$

Hence, the correct answer is 1550.

54. Answer: a

Explanation:

Putting all the values in a table we get

Warehouse	Total displaced quantities (P + Q)	Displaced quantities of 'P' type	Displaced quantities of 'Q' type
A	750	350	$750 - 350 = 400$
B	600	250	$600 - 250 = 350$
C	650	400	$650 - 400 = 250$
D	800	350	$800 - 350 = 450$
Total	2800	1350	1450

The total number of 'P' type of quantities displaced by warehouses 'A', 'C', and 'D' = $(350 + 400 + 350) = 1100$

Required percentage = $(1100/2800) \times 100 = 39.28 \sim 39\%$

Hence, the correct answer is 39%.

55. Answer: b

Explanation:

Putting all the values in a table we get

Warehouse	Total displaced quantities (P + Q)	Displaced quantities of 'P' type	Displaced quantities of 'Q' type
A	750	350	$750 - 350 = 400$
B	600	250	$600 - 250 = 350$
C	650	400	$650 - 400 = 250$
D	800	350	$800 - 350 = 450$
Total	2800	1350	1450

The total number of quantities that are accepted and not returned back to all four warehouses = $(4/7) \times 2800 = 1600$

Hence, the correct answer is 1600.

56. Answer: c

Explanation:

Given:

Ratio of present ages of A and B = 7 : 8

$C = A + 10$ years

Calculation:

Let present ages of A and B be $7x$, $8x$

$$(7x + 6)/(8x + 6) = 8/9$$

$$\Rightarrow 63x + 54 = 64x + 48$$

$$\Rightarrow 64x - 63x = 54 - 48$$

$$\Rightarrow x = 6$$

Present age of C = $7 \times 6 + 10$

$\Rightarrow 42 + 10$

$\Rightarrow 52$ years

$\therefore$ The present age of C is 52 years.

★ Shortcut Trick

Ratio Comparison Method

$$+1 \left(\begin{array}{c} A : B \\ 7 : 8 \\ 8 : 9 \end{array} \right) +1$$

$1 = 6$

Present age of C = $7 \times 6 + 10$

$\Rightarrow 42 + 10$

$\Rightarrow 52$ years

$\therefore$ The present age of C is 52 years.

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57. Answer: b

Explanation:

Given:

Arvind gives 50% of his money to his son.

Arvind gives 30% of his money to his wife.

And 62.5% of the remaining money is donated to a trust.

Calculation:

Let's assume Arvind's total money = $100x$

Arvind gives 50% of his money to his son and 30% to his wife = $50\% + 30\%$

⇒ 80% of the total money

So remaining money = $100x - (80/100 \times 100x)$

⇒ $20x$

Now donations to trust = $20x \times 62.5/100$

⇒ $12.5x$

He is left with 15,000 Rs.

So 15000 Rs. = $20x - 12.5x$

⇒ 15000 Rs. = $7.5x$

⇒ $x = 2000$ Rs.

So total money at beginning = 100×2000

⇒ **2,00,000 Rs**

Your Personal Exams Guide

58. Answer: b

Explanation:

⇒ Assume, that Bikash joined after x months.

⇒ Profit is divided in the ratio of the product of capital invested and the time for which it is invested.

⇒ Product of investment and time for Ashay = 24000×12

⇒ Product of investment and time for Bikash = $18000 \times (12 - x)$

⇒ $(216000 - 18000x)/288000 = 7/16$

$$\Rightarrow (216 - 18x)/288 = 7/16$$

$$\Rightarrow 3456 - 288x = 2016$$

$$\Rightarrow x = 5$$

59. Answer: d

Explanation:

Given:

Two pipes can fill a tank in 12 hours and 15 hours respectively

while the third pipes can empty it in 18 hours

Formula used:

Work = Efficiency $\times$ Time

Calculation:

Total Capacity of the tank = LCM(12 , 15 , 18)

= 180

Efficiency of First pipe = 180/12

= 15

Efficiency of Second pipe = 180/15

= 12

Efficiency of Third pipe = 180/18

= 10

Capacity of the tank after two pipes filled the tank for 5 hours = (Efficiency of First pipe + Efficiency of Second pipe) $\times$ 5

$$= 27 \times 5$$

$$= 135$$

Time taken to empty the tank filled by two pipes for 5 hours = $135 / \text{Efficiency of Third pipe}$

$$= 135 / 10$$

$$= 13.5 \text{ hours}$$

Answer is 13.5 hours.

60. Answer: a

Explanation:

Given:

A train covers total distance = 400km

Formula Used:

Speed = Distance covered / Time taken

Calculation:

Let the speed of the train be x

Time taken by train = $400/x$

Now, the increased speed of train be $(x + 10)$

Now, Time taken by train = $400/(x + 10)$

According to the question;

Difference between time taken = 2 hours

$$\Rightarrow 400/x - 400/(x + 10) = 2$$

$$\Rightarrow \frac{1}{x} - \frac{1}{x+10} = \frac{2}{400}$$

$$\Rightarrow \frac{(x+10-x)}{(x+10)x} = \frac{1}{200}$$

$$\Rightarrow 10 \times 200 = x^2 + 10x$$

$$\Rightarrow x^2 + 10x = 2000$$

$$\Rightarrow x^2 + 10x - 2000 = 0$$

$$\Rightarrow x = -50, 40$$

The speed of the train = 40 km/hr

Time taken by train = $400/40 = 10$ hours

$\therefore$ The usual time taken by the train to complete the journey is 10 hours .

61. Answer: a

Explanation:

The number of people who prefer to listen only 'Jazz' = $6 \times 35 - 5 = 205$

Let the total number of people who prefer to listen only 'Jazz' = $41x$

ATQ, $41x = 205$

$$\Rightarrow x = 5$$

The total number of people who prefer to listen only 'folk' = $56x = 280$

The total number of people who prefer to listen only 'Rock' = $79x = 395$

Let the total number of people who prefer to listen all three genres = $4y$

The number of people who prefer to listen both 'Folk' and 'Jazz' but not 'Rock' = $75\% \times 4y = 3y$

The number of people who prefer to listen both 'Rock' and 'Jazz' but not 'Folk' = 50

The number of people who prefer to listen both 'Folk' and 'Rock' but not 'Jazz' = 35

The total number of people who prefer to listen exactly two type of 'music' genres = 130

$$\text{ATQ, } 3y + 50 + 35 = 130$$

$$\Rightarrow y = 15$$

The total number of people who prefer to listen all three genres = $4y = 60$

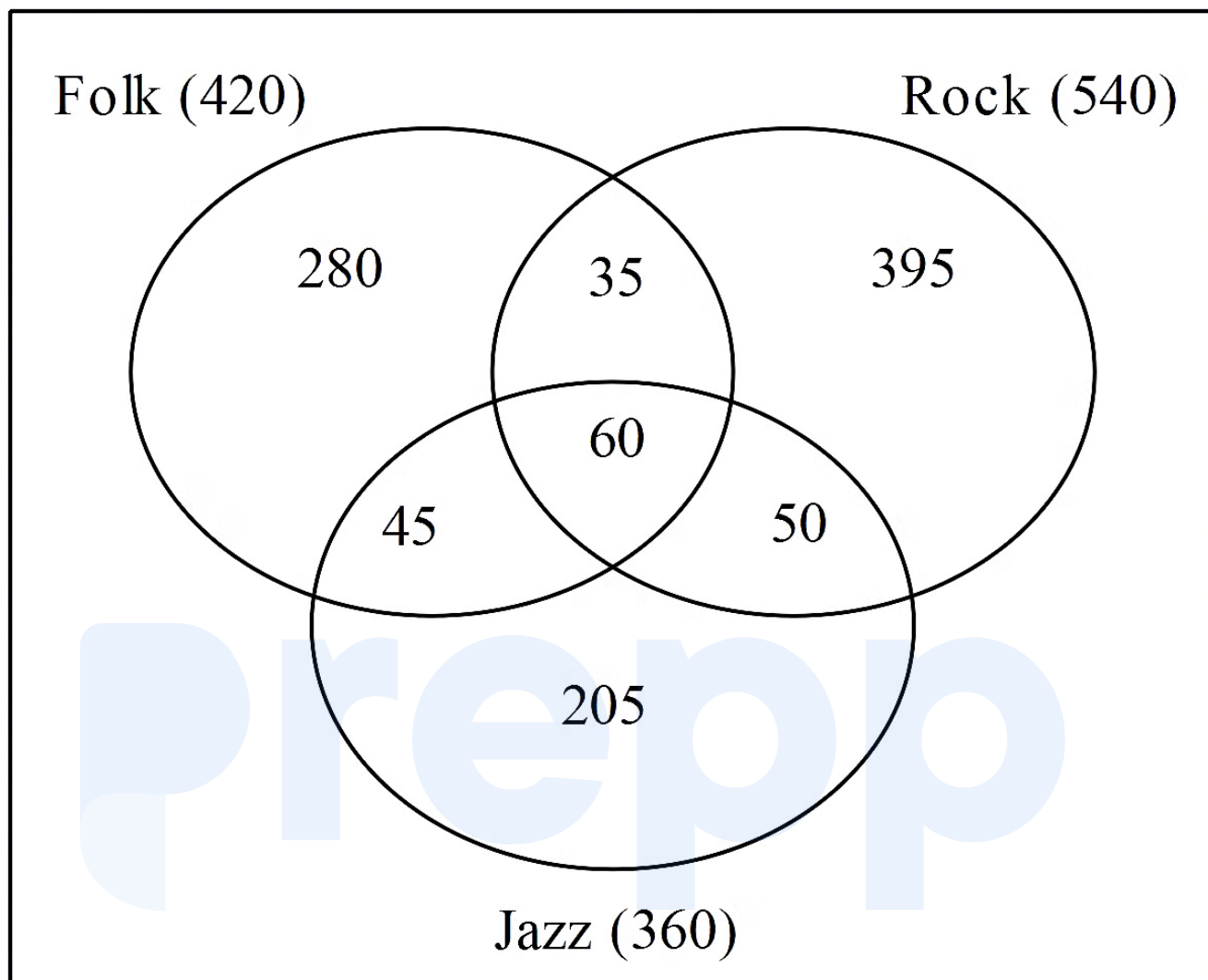
The number of people who prefer to listen both 'Folk' and 'Jazz' but not 'Rock' = $3y = 45$

The number of people who prefer to listen 'Folk' = $280 + 35 + 60 + 45 = 420$

The number of people who prefer to listen 'Rock' = $395 + 35 + 60 + 50 = 540$

The number of people who prefer to listen 'Jazz' = $205 + 45 + 60 + 50 = 360$

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The number of people who prefer to listen all three types of 'music' genres = 60

Hence, the correct answer is 60.

62. Answer: d

Explanation:

The number of people who prefer to listen only 'Jazz' = $6 \times 35 - 5 = 205$

Let the total number of people who prefer to listen only 'Jazz' = $41x$

ATQ, $41x = 205$

$$\Rightarrow x = 5$$

The total number of people who prefer to listen only 'folk' = $56x = 280$

The total number of people who prefer to listen only 'Rock' = $79x = 395$

Let the total number of people who prefer to listen all three genres = $4y$

The number of people who prefer to listen both 'Folk' and 'Jazz' but not 'Rock' = $75\% \times 4y = 3y$

The number of people who prefer to listen both 'Rock' and 'Jazz' but not 'Folk' = 50

The number of people who prefer to listen both 'Folk' and 'Rock' but not 'Jazz' = 35

The total number of people who prefer to listen exactly two type of 'music' genres = 130

$$\text{ATQ, } 3y + 50 + 35 = 130$$

$$\Rightarrow y = 15$$

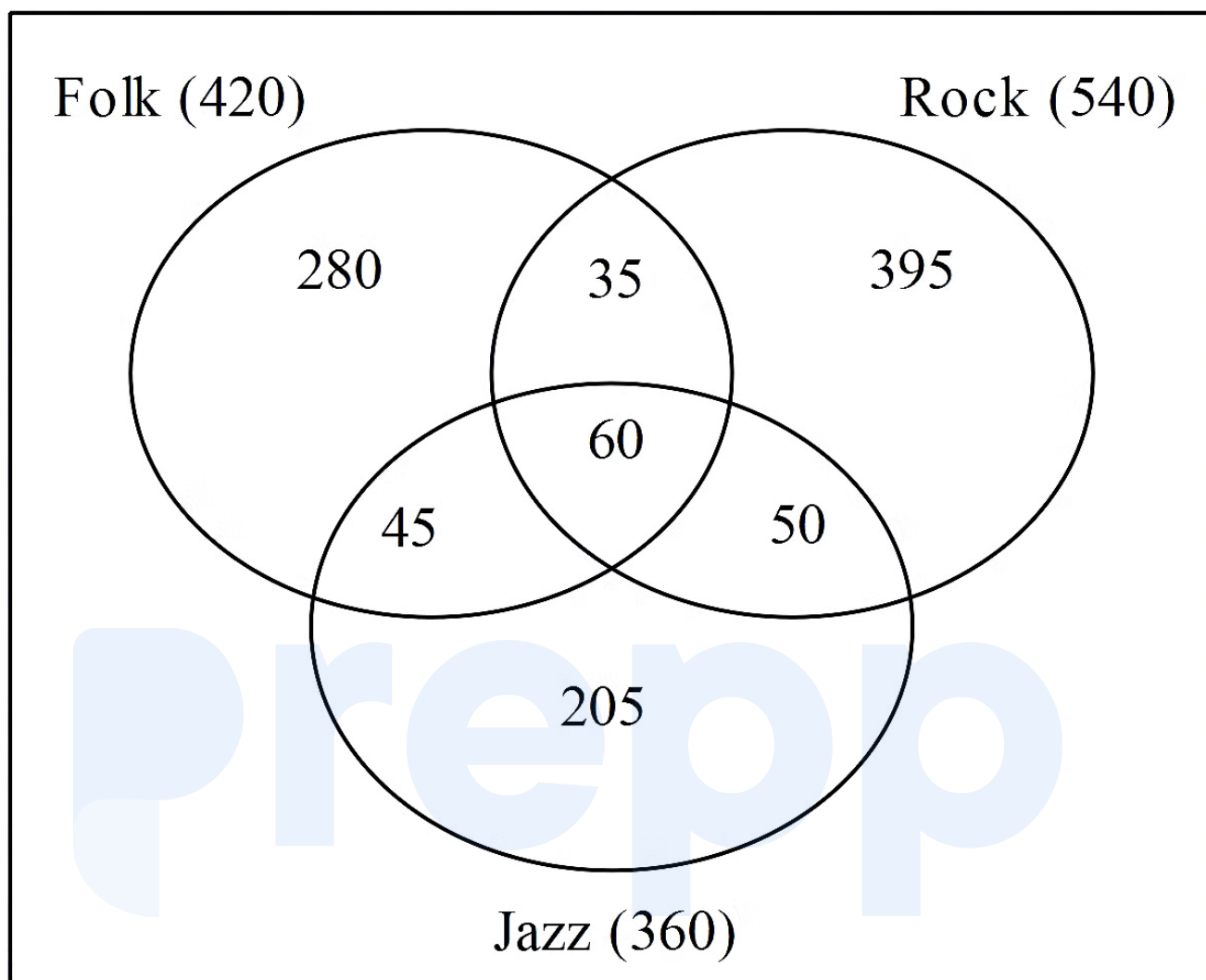
The total number of people who prefer to listen all three genres = $4y = 60$

The number of people who prefer to listen both 'Folk' and 'Jazz' but not 'Rock' = $3y = 45$

The number of people who prefer to listen 'Folk' = $280 + 35 + 60 + 45 = 420$

The number of people who prefer to listen 'Rock' = $395 + 35 + 60 + 50 = 540$

The number of people who prefer to listen 'Jazz' = $205 + 45 + 60 + 50 = 360$



The total number of people who prefer to listen to only 'Folk' and to only 'Rock' = $280 + 395 = 675$

Hence, the correct answer is 675.

63. Answer: b

Explanation:

The number of people who prefer to listen only 'Jazz' = $6 \times 35 - 5 = 205$

Let the total number of people who prefer to listen only 'Jazz' = $41x$

$$\text{ATQ, } 41x = 205$$

$$\Rightarrow x = 5$$

The total number of people who prefer to listen only 'folk' = $56x = 280$

The total number of people who prefer to listen only 'Rock' = $79x = 395$

Let the total number of people who prefer to listen all three genres = $4y$

The number of people who prefer to listen both 'Folk' and 'Jazz' but not 'Rock' = $75\% \times 4y = 3y$

The number of people who prefer to listen both 'Rock' and 'Jazz' but not 'Folk' = 50

The number of people who prefer to listen both 'Folk' and 'Rock' but not 'Jazz' = 35

The total number of people who prefer to listen exactly two type of 'music' genres = 130

$$\text{ATQ, } 3y + 50 + 35 = 130$$

$$\Rightarrow y = 15$$

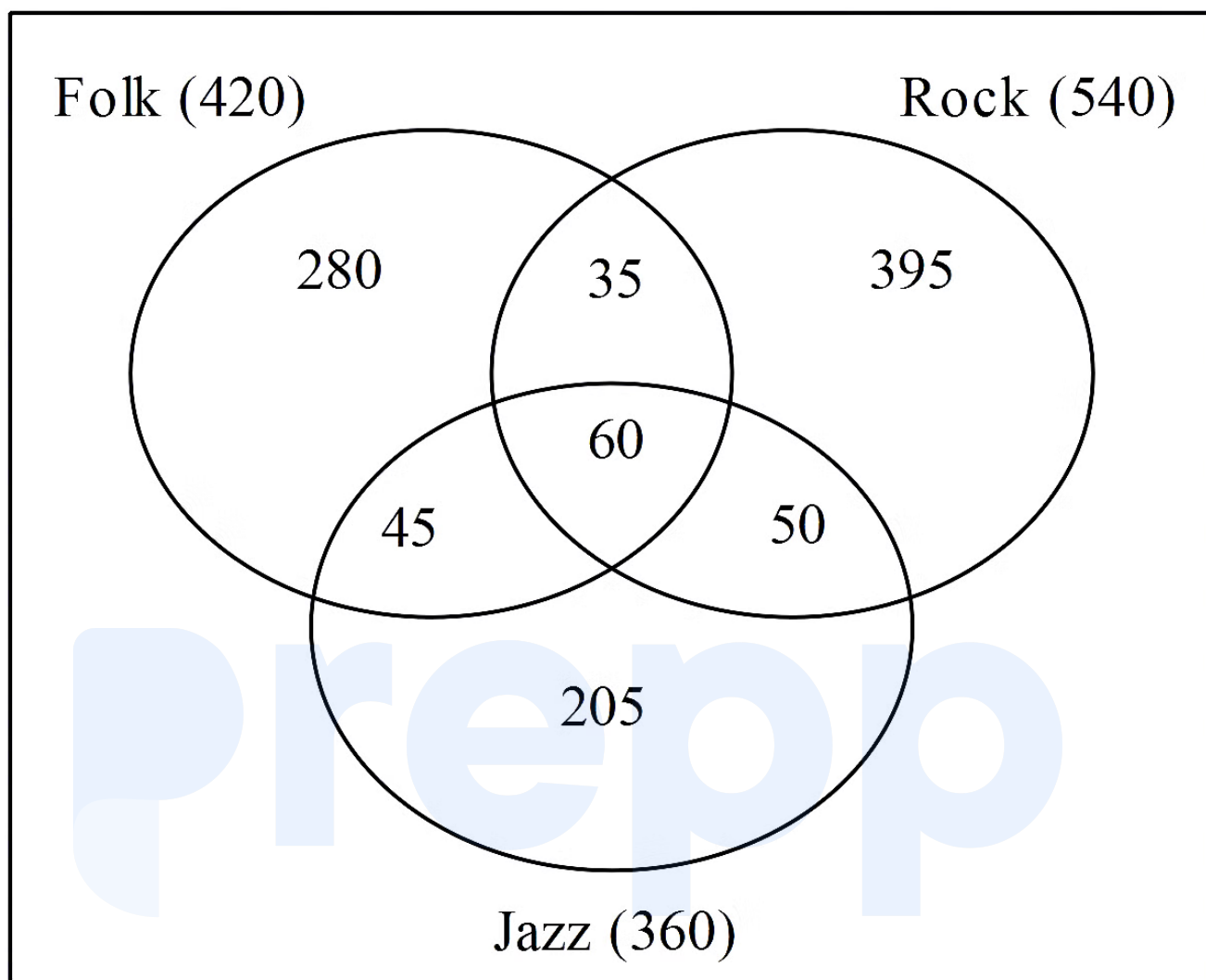
The total number of people who prefer to listen all three genres = $4y = 60$

The number of people who prefer to listen both 'Folk' and 'Jazz' but not 'Rock' = $3y = 45$

The number of people who prefer to listen 'Folk' = $280 + 35 + 60 + 45 = 420$

The number of people who prefer to listen 'Rock' = $395 + 35 + 60 + 50 = 540$

The number of people who prefer to listen 'Jazz' = $205 + 45 + 60 + 50 = 360$



The number of people who prefer to listen exactly one type of 'music' genre = $280 + 395 + 205 = 880$

The number of people who prefer to listen exactly two types of 'music' genres = $50 + 35 + 45 = 130$

Required difference = $880 - 130 = 750$

Hence, the correct answer is 750.

64. Answer: e

Explanation:

The number of people who prefer to listen only 'Jazz' = $6 \times 35 - 5 = 205$

Let the total number of people who prefer to listen only 'Jazz' = $41x$

ATQ, $41x = 205$

$\Rightarrow x = 5$

The total number of people who prefer to listen only 'folk' = $56x = 280$

The total number of people who prefer to listen only 'Rock' = $79x = 395$

Let the total number of people who prefer to listen all three genres = $4y$

The number of people who prefer to listen both 'Folk' and 'Jazz' but not 'Rock' = $75\% \times 4y = 3y$

The number of people who prefer to listen both 'Rock' and 'Jazz' but not 'Folk' = 50

The number of people who prefer to listen both 'Folk' and 'Rock' but not 'Jazz' = 35

The total number of people who prefer to listen exactly two type of 'music' genres = 130

ATQ, $3y + 50 + 35 = 130$

$\Rightarrow y = 15$

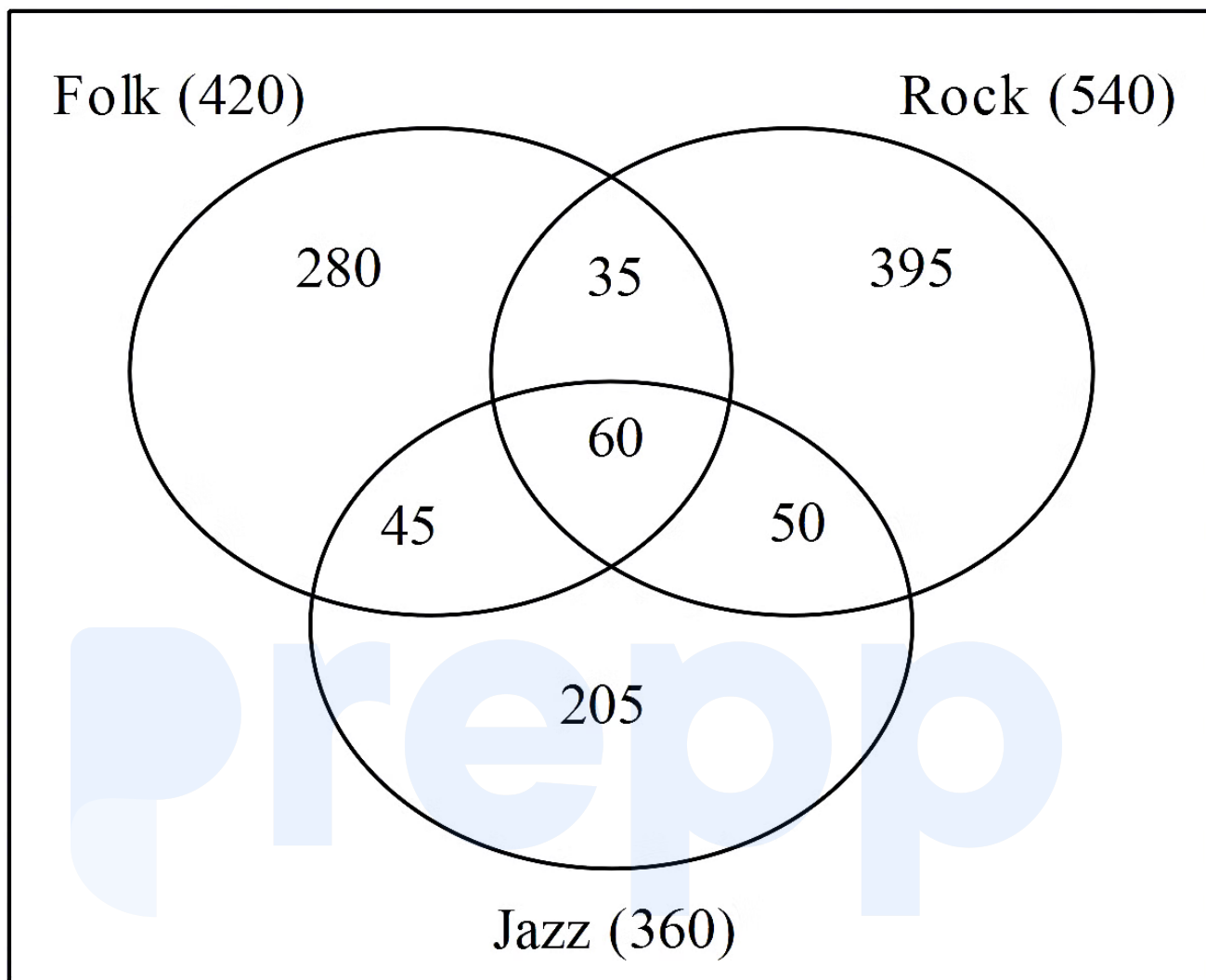
The total number of people who prefer to listen all three genres = $4y = 60$

The number of people who prefer to listen both 'Folk' and 'Jazz' but not 'Rock' = $3y = 45$

The number of people who prefer to listen 'Folk' = $280 + 35 + 60 + 45 = 420$

The number of people who prefer to listen 'Rock' = $395 + 35 + 60 + 50 = 540$

The number of people who prefer to listen 'Jazz' = $205 + 45 + 60 + 50 = 360$



The total number of people who prefer to listen 'Rock' = 540

Hence, the correct answer is 540.

65. Answer: d

Explanation:

The number of people who prefer to listen only 'Jazz' = $6 \times 35 - 5 = 205$

Let the total number of people who prefer to listen only 'Jazz' = $41x$

ATQ, $41x = 205$

$$\Rightarrow x = 5$$

The total number of people who prefer to listen only 'folk' = $56x = 280$

The total number of people who prefer to listen only 'Rock' = $79x = 395$

Let the total number of people who prefer to listen all three genres = $4y$

The number of people who prefer to listen both 'Folk' and 'Jazz' but not 'Rock' = $75\% \times 4y = 3y$

The number of people who prefer to listen both 'Rock' and 'Jazz' but not 'Folk' = 50

The number of people who prefer to listen both 'Folk' and 'Rock' but not 'Jazz' = 35

The total number of people who prefer to listen exactly two type of 'music' genres = 130

$$\text{ATQ, } 3y + 50 + 35 = 130$$

$$\Rightarrow y = 15$$

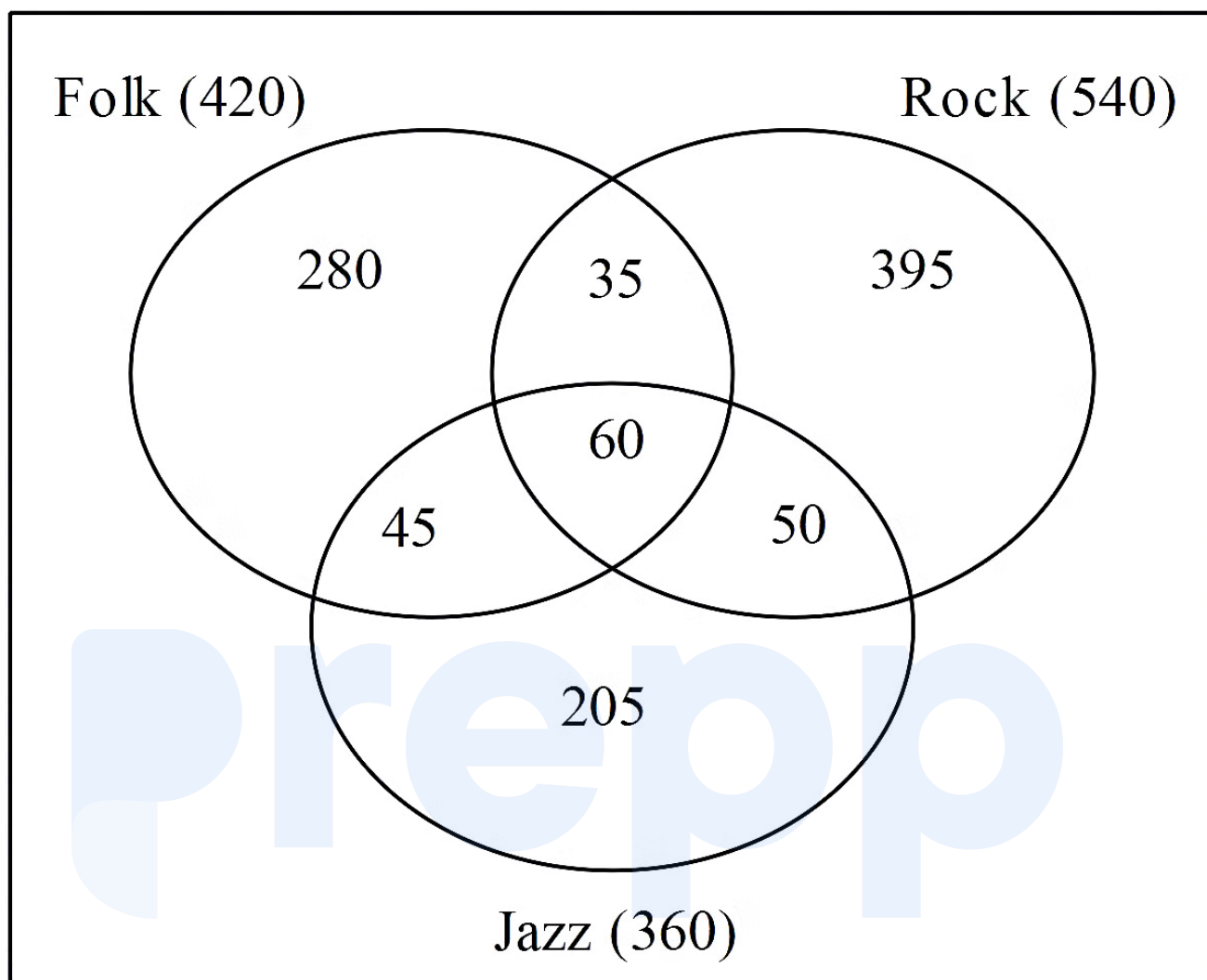
The total number of people who prefer to listen all three genres = $4y = 60$

The number of people who prefer to listen both 'Folk' and 'Jazz' but not 'Rock' = $3y = 45$

The number of people who prefer to listen 'Folk' = $280 + 35 + 60 + 45 = 420$

The number of people who prefer to listen 'Rock' = $395 + 35 + 60 + 50 = 540$

The number of people who prefer to listen 'Jazz' = $205 + 45 + 60 + 50 = 360$



Ratio between the number of people who prefer to listen 'Folk' and to 'Jazz' = $420 : 360 = 7 : 6$

Hence, the correct answer is $7 : 6$.

66. Answer: b

Explanation:

Given that:

There are seven persons, who were born in different years – 1961, 1968, 1972, 1988, 1993, 1999, and 2013. All the age calculations are done taking the base year as 2020.

So, their ages are:

Year	Age	Persons	
		Case I	Case II
1961	59		
1968	52		
1972	48		
1988	32		
1993	27		
1999	21		
2013	07		

1) D was born in a leap year but not in the year 1988.

So, here there are 3 leap years – 1968, 1972 and 1988 (all are divisible by 4)

So, 2 cases will generate D can born either in 1968 or 1972:

Year	Age	Persons	
		Case I	Case II
1961	59		
1968	52	D	
1972	48		D
1988	32		
1993	27		
1999	21		
2013	07		

2) Only three persons were born between D and F.

3) C is the eldest person among them all.

So, C was born in 1961:

Year	Age	Persons	
		Case I	Case II
1961	59	C	C
1968	52	D	
1972	48		D
1988	32		
1993	27		
1999	21	F	
2013	07		F

4) The difference between the ages of G and D is 4 years.

Year	Age	Persons	
		Case I	Case II
1961	59	C	C
1968	52	D	G
1972	48	G	D
1988	32		
1993	27		
1999	21	F	
2013	07		F

5) B was born in an odd-numbered year but not in 1993 nor he was the last one to be born.

Here, B was born in 1999, neither in 1993 nor in 2013 (at last).

6) The sum of the ages of A and F is a multiple of 13.

Here, age is $32 + 7 = 39$ (39 is a multiple of 13).

So in there 2 statements Case I will be eliminate:

Here we have case II:

Year	Age	Persons
1961	59	C
1968	52	G
1972	48	D
1988	32	A
1993	27	E
1999	21	B
2013	07	F

Hence, E was born in the year 1993.

67. Answer: c

Explanation:

Given that:

There are seven persons, who were born in different years – 1961, 1968, 1972, 1988, 1993, 1999, and 2013. All the age calculations are done taking the base year as 2020.

So, their ages are:

Year	Age	Persons	
		Case I	Case II
1961	59		
1968	52		
1972	48		
1988	32		
1993	27		
1999	21		
2013	07		

1) D was born in a leap year but not in the year 1988.

So, here there are 3 leap years - 1968, 1972 and 1988 (all are divisible by 4)

So, 2 cases will generate D can born either in 1968 or 1972:

Year	Age	Persons	
		Case I	Case II
1961	59		
1968	52	D	
1972	48		D
1988	32		
1993	27		
1999	21		
2013	07		

2) Only three persons were born between D and F.

3) C is the eldest person among them all.

So, C was born in 1961:

Year	Age	Persons	
		Case I	Case II
1961	59	C	C
1968	52	D	
1972	48		D
1988	32		
1993	27		
1999	21	F	
2013	07		F

4) The difference between the ages of G and D is 4 years.

Year	Age	Persons	
		Case I	Case II
1961	59	C	C
1968	52	D	G
1972	48	G	D
1988	32		
1993	27		
1999	21	F	
2013	07		F

5) B was born in an odd-numbered year but not in 1993 nor he was the last one to be born.

Here, B was born in 1999, neither in 1993 nor in 2013 (at last).

6) The sum of the ages of A and F is a multiple of 13.

Here, age is $32 + 7 = 39$ (39 is a multiple of 13).

So in there 2 statements Case I will be eliminate:

Here we have case II:

Year	Age	Persons
1961	59	C
1968	52	G
1972	48	D
1988	32	A
1993	27	E
1999	21	B
2013	07	F

Hence, the sum of the ages of C and B is $\rightarrow 59 + 21 = 80$ years.

68. Answer: a

Explanation:

Given that:

There are seven persons, who were born in different years – 1961, 1968, 1972, 1988, 1993, 1999, and 2013. All the age calculations are done taking the base year as 2020.

So, their ages are:

Year	Age	Persons	
		Case I	Case II
1961	59		
1968	52		
1972	48		
1988	32		
1993	27		
1999	21		
2013	07		

1) D was born in a leap year but not in the year 1988.

So, here there are 3 leap years - 1968, 1972 and 1988 (all are divisible by 4)

So, 2 cases will generate D can born either in 1968 or 1972:

Year	Age	Persons	
		Case I	Case II
1961	59		
1968	52	D	
1972	48		D
1988	32		
1993	27		
1999	21		
2013	07		

2) Only three persons were born between D and F.

3) C is the eldest person among them all.

So, C was born in 1961:

Year	Age	Persons	
		Case I	Case II
1961	59	C	C
1968	52	D	
1972	48		D
1988	32		
1993	27		
1999	21	F	
2013	07		F

4) The difference between the ages of G and D is 4 years.

Year	Age	Persons	
		Case I	Case II
1961	59	C	C
1968	52	D	G
1972	48	G	D
1988	32		
1993	27		
1999	21	F	
2013	07		F

5) B was born in an odd-numbered year but not in 1993 nor he was the last one to be born.

Here, B was born in 1999, neither in 1993 nor in 2013 (at last).

6) The sum of the ages of A and F is a multiple of 13.

Here, age is $32 + 7 = 39$ (39 is a multiple of 13).

So in there 2 statements Case I will be eliminate:

Here we have case II:

Year	Age	Persons
1961	59	C
1968	52	G
1972	48	D
1988	32	A
1993	27	E
1999	21	B
2013	07	F

Hence, No one is born between G and D, so **none**.

69. **Answer: b**

Explanation:

Given that:

There are seven persons, who were born in different years – 1961, 1968, 1972, 1988, 1993, 1999, and 2013. All the age calculations are done taking the base year as 2020.

So, their ages are:

Year	Age	Persons	
		Case I	Case II
1961	59		
1968	52		
1972	48		
1988	32		
1993	27		
1999	21		
2013	07		

1) D was born in a leap year but not in the year 1988.

So, here there are 3 leap years - 1968, 1972 and 1988 (all are divisible by 4)

So, 2 cases will generate D can born either in 1968 or 1972:

Year	Age	Persons	
		Case I	Case II
1961	59		
1968	52	D	
1972	48		D
1988	32		
1993	27		
1999	21		
2013	07		

2) Only three persons were born between D and F.

3) C is the eldest person among them all.

So, C was born in 1961:

Year	Age	Persons	
		Case I	Case II
1961	59	C	C
1968	52	D	
1972	48		D
1988	32		
1993	27		
1999	21	F	
2013	07		F

4) The difference between the ages of G and D is 4 years.

Year	Age	Persons	
		Case I	Case II
1961	59	C	C
1968	52	D	G
1972	48	G	D
1988	32		
1993	27		
1999	21	F	
2013	07		F

5) B was born in an odd-numbered year but not in 1993 nor he was the last one to be born.

Here, B was born in 1999, neither in 1993 nor in 2013 (at last).

6) The sum of the ages of A and F is a multiple of 13.

Here, age is $32 + 7 = 39$ (39 is a multiple of 13).

So in there 2 statements Case I will be eliminate:

Here we have case II:

Year	Age	Persons
1961	59	C
1968	52	G
1972	48	D
1988	32	A
1993	27	E
1999	21	B
2013	07	F

Hence, **G** does not belong to the group as G was born in the even - numbered years.

70. **Answer: c**

Explanation:

Given that:

There are seven persons, who were born in different years – 1961, 1968, 1972, 1988, 1993, 1999, and 2013. All the age calculations are done taking the base year as 2020.

So, their ages are:

Year	Age	Persons	
		Case I	Case II
1961	59		
1968	52		
1972	48		
1988	32		
1993	27		
1999	21		
2013	07		

1) D was born in a leap year but not in the year 1988.

So, here there are 3 leap years - 1968, 1972 and 1988 (all are divisible by 4)

So, 2 cases will generate D can born either in 1968 or 1972:

Year	Age	Persons	
		Case I	Case II
1961	59		
1968	52	D	
1972	48		D
1988	32		
1993	27		
1999	21		
2013	07		

2) Only three persons were born between D and F.

3) C is the eldest person among them all.

So, C was born in 1961:

Year	Age	Persons	
		Case I	Case II
1961	59	C	C
1968	52	D	
1972	48		D
1988	32		
1993	27		
1999	21	F	
2013	07		F

4) The difference between the ages of G and D is 4 years.

Year	Age	Persons	
		Case I	Case II
1961	59	C	C
1968	52	D	G
1972	48	G	D
1988	32		
1993	27		
1999	21	F	
2013	07		F

5) B was born in an odd-numbered year but not in 1993 nor he was the last one to be born.

Here, B was born in 1999, neither in 1993 nor in 2013 (at last).

6) The sum of the ages of A and F is a multiple of 13.

Here, age is $32 + 7 = 39$ (39 is a multiple of 13).

So in there 2 statements Case I will be eliminate:

Here we have case II:

Year	Age	Persons
1961	59	C
1968	52	G
1972	48	D
1988	32	A
1993	27	E
1999	21	B
2013	07	F

Hence, B was born in **1999**.

71. **Answer: a**

Explanation:

Given Statements : $F = S \geq G < V, Q > P \geq X, F \geq X, V \leq M$

On combining : $Q > P \geq X \leq F = S \geq G < V \leq M$

I. $M > G \rightarrow \text{True}$ (As $M \geq V > G$ is definitely true, Hence $M > G$ is true)

II. $S < Q \rightarrow \text{False}$ (As $Q > P \geq X \leq F = S$, So there is no direct relation between S and Q, Hence $S < Q$ will be false.)

Hence, Only conclusion I follow.

72. Answer: d

Explanation:

Given statements : $P > Q < R, R = S \geq T, T \leq U > V$

On combining : $P > Q < R = S \geq T \leq U > V$

(I) $S > P \rightarrow \text{False}$ (as $S = R > Q < P$ there is no direct relation given between the two, it might be a possibility but not definitely true, Hence false)

(II) $U > R \rightarrow \text{False}$ (as $U \geq T \leq S = R$ there is no direct relation given between the two, it might be a possibility but not definitely true, Hence false).

Hence, Neither I nor II follows.

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73. Answer: a

Explanation:

Given statements: $T > N < V = L \leq W < K, V = H > I > F$

On combining : $T > N < V = L \leq W < K, T > N < V = H > I > F$

I. $V > F \rightarrow \text{True}$ (As $V = H > I > F$ so $V > F$ is true)

II. $T > H \rightarrow \text{False}$ (As $T > N < V = H > I > F$ no direct relation is given between the two, so it is possibility but not definitely true Hence $T > H$ is false)

Hence, Only I follow.

74. Answer: b

Explanation:

Persons: A, B, C, E, F, G, H, K and M.

1. At least six persons buy books after H.
2. Two persons buy books between H and C.

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S. No	Case 1	Case 2	Case 3
1			H
2		H	
3	H		
4			C
5		C	
6	C		
7			
8			
9			

3. M buys book immediately after F and immediately before E.

4. Not more than two persons buy books between C and E.

S. No	Case 1	Case 2	Case 3
1			H
2		H	
3	H		
4			C
5		C	F
6	C	F	M
7	F	M	E
8	M	E	
9	E		

5. A buys book before G and after H.

6. G is not the last one to buy book.

S. No	Case 1	Case 2	Case 3	Case 4	Case 5
1			H	H	H
2		H	A	A	
3	H	A	G		A
4	A	G	C	C	C
5	G	C	F	F	F
6	C	F	M	M	M
7	F	M	E	E	E
8	M	E		G	G
9	E				

7. Less than three persons buy books between G and B.

8. B buy book before G but not at the first.

9. So Case 2, 3, 4 and 5 is eliminated.

The final arrangement is,

S. No	Case 1
1	K
2	B
3	H
4	A
5	G
6	C
7	F
8	M
9	E

Hence , M is the second last person to buy a book.

75. Answer: e

Explanation:

Persons: A, B, C, E, F, G, H, K and M.

1. At least six persons buy books after H.
2. Two persons buy books between H and C.

S. No	Case 1	Case 2	Case 3
1			H
2		H	
3	H		
4			C
5		C	
6	C		
7			
8			
9			

3. M buys book immediately after F and immediately before E.

4. Not more than two persons buy books between C and E.

S. No	Case 1	Case 2	Case 3
1			H
2		H	
3	H		
4			C
5		C	F
6	C	F	M
7	F	M	E
8	M	E	
9	E		

5. A buys book before G and after H.

6. G is not the last one to buy book.

S. No	Case 1	Case 2	Case 3	Case 4	Case 5
1			H	H	H
2		H	A	A	
3	H	A	G		A
4	A	G	C	C	C
5	G	C	F	F	F
6	C	F	M	M	M
7	F	M	E	E	E
8	M	E		G	G
9	E				

7. Less than three persons buy books between G and B.

8. B buy book before G but not at the first.

9. So Case 2, 3, 4 and 5 is eliminated.

The final arrangement is,

S. No	Case 1
1	K
2	B
3	H
4	A
5	G
6	C
7	F
8	M
9	E

Hence, **six persons** buy books between B and E.

76. Answer: e

Explanation:

Persons: A, B, C, E, F, G, H, K and M.

1. At least six persons buy books after H.
2. Two persons buy books between H and C.

S. No	Case 1	Case 2	Case 3
1			H
2		H	
3	H		
4			C
5		C	
6	C		
7			
8			
9			

3. M buys book immediately after F and immediately before E.

4. Not more than two persons buy books between C and E.

S. No	Case 1	Case 2	Case 3
1			H
2		H	
3	H		
4			C
5		C	F
6	C	F	M
7	F	M	E
8	M	E	
9	E		

5. A buys book before G and after H.

6. G is not the last one to buy book.

S. No	Case 1	Case 2	Case 3	Case 4	Case 5
1			H	H	H
2		H	A	A	
3	H	A	G		A
4	A	G	C	C	C
5	G	C	F	F	F
6	C	F	M	M	M
7	F	M	E	E	E
8	M	E		G	G
9	E				

7. Less than three persons buy books between G and B.

8. B buy book before G but not at the first.

9. So Case 2, 3, 4 and 5 is eliminated.

The final arrangement is,

S. No	Case 1
1	K
2	B
3	H
4	A
5	G
6	C
7	F
8	M
9	E

Hence, K is the first person to buy a book.

77. Answer: a

Explanation:

Persons: A, B, C, E, F, G, H, K and M.

1. At least six persons buy books after H.
2. Two persons buy books between H and C.

S. No	Case 1	Case 2	Case 3
1			H
2		H	
3	H		
4			C
5		C	
6	C		
7			
8			
9			

3. M buys book immediately after F and immediately before E.

4. Not more than two persons buy books between C and E.

S. No	Case 1	Case 2	Case 3
1			H
2		H	
3	H		
4			C
5		C	F
6	C	F	M
7	F	M	E
8	M	E	
9	E		

5. A buys book before G and after H.

6. G is not the last one to buy book.

S. No	Case 1	Case 2	Case 3	Case 4	Case 5
1			H	H	H
2		H	A	A	
3	H	A	G		A
4	A	G	C	C	C
5	G	C	F	F	F
6	C	F	M	M	M
7	F	M	E	E	E
8	M	E		G	G
9	E				

7. Less than three persons buy books between G and B.

8. B buy book before G but not at the first.

9. So Case 2, 3, 4 and 5 is eliminated.

The final arrangement is,

S. No	Case 1
1	K
2	B
3	H
4	A
5	G
6	C
7	F
8	M
9	E

If F and K interchange their position

S. No	Case 1
1	F
2	B
3	H
4	A
5	G
6	C
7	K
8	M
9	E

Hence, if F and K interchange their position, seven persons buy books between F and E.

78. Answer: c

Explanation:

Persons: A, B, C, E, F, G, H, K and M.

1. At least six persons buy books after H.
2. Two persons buy books between H and C.

S. No	Case 1	Case 2	Case 3
1			H
2		H	
3	H		
4			C
5		C	
6	C		
7			
8			
9			

3. M buys book immediately after F and immediately before E.

4. Not more than two persons buy books between C and E.

S. No	Case 1	Case 2	Case 3
1			H
2		H	
3	H		
4			C
5		C	F
6	C	F	M
7	F	M	E
8	M	E	
9	E		

5. A buys book before G and after H.

6. G is not the last one to buy book.

S. No	Case 1	Case 2	Case 3	Case 4	Case 5
1			H	H	H
2		H	A	A	
3	H	A	G		A
4	A	G	C	C	C
5	G	C	F	F	F
6	C	F	M	M	M
7	F	M	E	E	E
8	M	E		G	G
9	E				

7. Less than three persons buy books between G and B.

8. B buy book before G but not at the first.

9. So Case 2, 3, 4 and 5 is eliminated.

The final arrangement is,

S. No	Case 1
1	K
2	B
3	H
4	A
5	G
6	C
7	F
8	M
9	E

Every pair except AE has two persons between them. But AE has four persons in between them.

Hence, **AE is the odd one out.**

79. Answer: e

Explanation:

Given: 6953265

By adding 1 in the even digits and subtracting 1 from the odd digits, we will get,

Numbers	6	9	5	3	2	6	5
Operation	+1	-1	-1	-1	+1	+1	-1
New number	7	8	4	2	3	7	4

Here can clearly says that 8, 2 and 3 are not repeated. Therefore, sum of the number = $8+2+3=13$

Hence "13" is correct answer.

80. Answer: c

Explanation:

Given statement:

'for the victory sign' is coded as 'si vi th fo',

'empty the apartment now' is coded as 'no ap th em'

'now for the finale' is coded as 'fi th fo no'

'for empty sign victory' is coded as 'vi si em fo'



We get:

for – fo

the – th

empty – em

now – no

The codes for 'apartment' and 'finale' is determined by elimination, i.e. all the other codes in the sentence are determined:

apartment – ap

finale – fi

We can not clearly determine the codes for 'victory' and 'sign':

victory – vi/si

sign – si/vi

Hence, the code for 'Now' is no.

81. Answer: e

Explanation:

Given statement:

'for the victory sign' is coded as 'si vi th fo',

'empty the apartment now' is coded as 'no ap th em'

'now for the finale' is coded as 'fi th fo no'

'for empty sign victory' is coded as 'vi si em fo'



We get:

for – fo

the – th
empty – em
now – no

The codes for 'apartment' and 'finale' is determined by elimination, i.e. all the other codes in the sentence are determined:

apartment – ap
finale – fi

We can not clearly determine the codes for 'victory' and 'sign':

victory – vi/si
sign – si/vi

Hence, the code for 'Victory' is either vi or si.

82. Answer: d

Explanation:

Given statement:

'for the victory sign' is coded as 'si vi th fo',

'empty the apartment now' is coded as 'no ap th em'

'now for the finale' is coded as 'fi th fo no'

'for empty sign victory' is coded as 'vi si em fo'



We get:

for – fo
the – th

empty – em

now – no

The codes for 'apartment' and 'finale' is determined by elimination, i.e. all the other codes in the sentence are determined:

apartment – ap

finale – fi

We can not clearly determine the codes for 'victory' and 'sign':

victory – vi/si

sign – si/vi

Hence, the code for 'Finale' is fi.

83. Answer: c

Explanation:

Given statement:

'for the victory sign' is coded as 'si vi th fo',

'empty the apartment now' is coded as 'no ap th em'

'now for the finale' is coded as 'fi th fo no'

'for empty sign victory' is coded as 'vi si em fo'



We get:

for – fo

the – th

empty – em

now – no

The codes for 'apartment' and 'finale' is determined by elimination, i.e. all the other codes in the sentence are determined:

apartment – ap

finale – fi

We can not clearly determine the codes for 'victory' and 'sign':

victory – vi/si

sign – si/vi

Hence, the code for 'the empty sign' is 'si em th'.

84. Answer: b

Explanation:

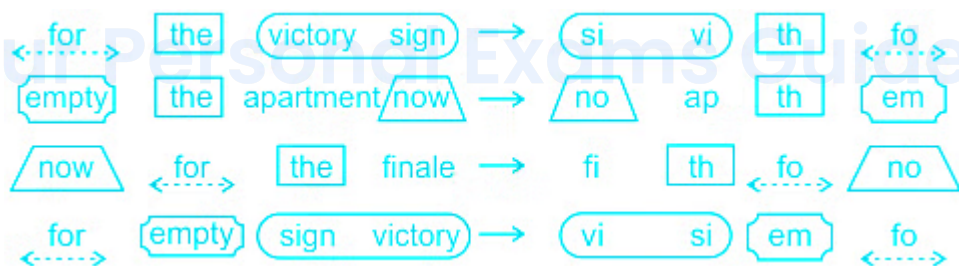
Given statement:

'for the victory sign' is coded as 'si vi th fo',

'empty the apartment now' is coded as 'no ap th em'

'now for the finale' is coded as 'fi th fo no'

'for empty sign victory' is coded as 'vi si em fo'



We get:

for – fo

the – th

empty – em

now – no

The codes for 'apartment' and 'finale' is determined by elimination, i.e. all the other codes in the sentence are determined:

apartment – ap
finale – fi

We can not clearly determine the codes for 'victory' and 'sign':

victory – vi/si
sign – si/vi

Hence, the code for 'apartment' is 'ap'.

85. Answer: c

Explanation:

Given words: PROPELLER

1st, 3rd, 6th, and 8th letter of the word PROPELLER is: P, O, L, and E

Combining and un-jumbling the letters we get: POLE and LOPE

Since 2 words are possible from the letters.

Hence, the answer is Y.

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86. Answer: b

Explanation:

The pattern for the code is as follows,

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

As per the English Alphabetical Series,

$$Z - 2 = X; X - 2 = V$$

$$D - 2 = B; B - 2 = Z$$

$$G + 2 = I; I + 2 = K$$

$$F - 2 = D; D - 2 = B$$

$$K - 2 = I; I - 2 = G$$

Hence, 'GIK' is the odd one out.

87. Answer: d

Explanation:

Given:

5 designations - CEO, CFO, Manager, Clerk, and Peon

CEO is the senior most and Peon is the juniormost person.

They have a different number of pens such that no two persons have the same number of pens.

Now,

- 1) Two persons are junior to Z. It means Z is a Manager.
- 2) The one who is just senior to the one who is Manager has 33 pens. It means CFO has 33 pens.
- 3) One designation lies between the one who has 33 pens and A. It means A is Clerk.

Posts	Persons	Number of Pens
CEO		
CFO		33
Manager	Z	
Clerk	A	
Peon		

4) A is just senior to the one who has 45 pens. It means Peon has 45 pens.

5) There is one designation between the Manager and R. It means R can be either CEO or Peon.

Case I

Posts	Persons	Number of Pens
CEO	R	
CFO		33
Manager	Z	
Clerk	A	
Peon		45

Case II

Posts	Persons	Number of Pens
CEO		
CFO		33
Manager	Z	
Clerk	A	
Peon	R	45

6) A has 11 pens more and 9 pens more than W and Q respectively. It means $A = W + 11$ and $A = Q + 9$. $W + 11 = Q + 9$. $Q - W = 2$. Q has more pens than W. In case I, Q has 45 pens and W has 33 pens. But $45 - 33$ is not equal to 2. So, the case I get eliminated. In case II, again there are two possibilities:

Possibility I – W have 33 pens. So Q will have 35 pens and A will have 44 pens.

Possibility II – Q has 33 pens so W will have 31 pens and A will have 42 pens.

Case II (a)

Posts	Persons	Number of Pens
CEO	Q	35
CFO	W	33
Manager	Z	
Clerk	A	44
Peon	R	45

Case II (b)

Posts	Persons	Number of Pens
CEO	W	31
CFO	Q	33
Manager	Z	
Clerk	A	42
Peon	R	45

7) The difference in the number of pens between R and Z is 14 and Z has the least number of pens. So, $R - 14 = Z$. Z has $45 - 14 = 31$ pens. But no two persons can have the same number of pens. So, case II (b) gets eliminated as W also has 31 pens in it.

The final arrangement is -

Posts	Persons	Number of Pens
CEO	Q	35
CFO	W	33
Manager	Z	31
Clerk	A	44
Peon	R	45

The total number of pens by the persons who are on the post of CEO and CFO is $35 + 33 = 68$.

Hence, The correct answer is **68**.

88. Answer: b

Explanation:

Given:

5 designations – CEO, CFO, Manager, Clerk, and Peon

CEO is the senior most and Peon is the juniormost person.

They have a different number of pens such that no two persons have the same number of pens.

Now,

- 1) Two persons are junior to Z. It means Z is a Manager.
- 2) The one who is just senior to the one who is Manager has 33 pens. It means CFO has 33 pens.
- 3) One designation lies between the one who has 33 pens and A. It means A is Clerk.

Posts	Persons	Number of Pens
CEO		
CFO		33
Manager	Z	
Clerk	A	
Peon		

- 4) A is just senior to the one who has 45 pens. It means Peon has 45 pens.
- 5) There is one designation between the Manager and R. It means R can be either CEO or Peon.

Case I

Posts	Persons	Number of Pens
CEO	R	
CFO		33
Manager	Z	
Clerk	A	
Peon		45

Case II

Posts	Persons	Number of Pens
CEO		
CFO		33
Manager	Z	
Clerk	A	
Peon	R	45

6) A has 11 pens more and 9 pens more than W and Q respectively. It means $A = W + 11$ and $A = Q + 9$. $W + 11 = Q + 9$. $Q - W = 2$. Q has more pens than W. In case I, Q has 45 pens and W has 33 pens. But $45 - 33$ is not equal to 2. So, the case I get eliminated. In case II, again there are two possibilities:

Possibility I – W have 33 pens. So Q will have 35 pens and A will have 44 pens.

Possibility II – Q has 33 pens so W will have 31 pens and A will have 42 pens.

Case II (a)

Posts	Persons	Number of Pens
CEO	Q	35
CFO	W	33
Manager	Z	
Clerk	A	44
Peon	R	45

Case II (b)

Posts	Persons	Number of Pens
CEO	W	31
CFO	Q	33
Manager	Z	
Clerk	A	42
Peon	R	45

7) The difference in the number of pens between R and Z is 14 and Z has the least number of pens. So, $R - 14 = Z$. Z has $45 - 14 = 31$ pens. But no two persons can have the same number of pens. So, case II (b) gets eliminated as W also has 31 pens in it.

The final arrangement is -

Posts	Persons	Number of Pens
CEO	Q	35
CFO	W	33
Manager	Z	31
Clerk	A	44
Peon	R	45

Hence, The correct answer is **CEO-Q-35**.

89. Answer: c

Explanation:

Given:

5 designations – CEO, CFO, Manager, Clerk, and Peon

CEO is the senior most and Peon is the juniormost person.

They have a different number of pens such that no two persons have the same number of pens.

Now,

- 1) Two persons are junior to Z. It means Z is a Manager.
- 2) The one who is just senior to the one who is Manager has 33 pens. It means CFO has 33 pens.
- 3) One designation lies between the one who has 33 pens and A. It means A is Clerk.

Posts	Persons	Number of Pens
CEO		
CFO		33
Manager	Z	
Clerk	A	
Peon		

4) A is just senior to the one who has 45 pens. It means Peon has 45 pens.

5) There is one designation between the Manager and R. It means R can be either CEO or Peon.

Case I

Posts	Persons	Number of Pens
CEO	R	
CFO		33
Manager	Z	
Clerk	A	
Peon		45

Case II

Posts	Persons	Number of Pens
CEO		
CFO		33
Manager	Z	
Clerk	A	
Peon	R	45

6) A has 11 pens more and 9 pens more than W and Q respectively. It means $A = W + 11$ and $A = Q + 9$. $W + 11 = Q + 9$. $Q - W = 2$. Q has more pens than W. In case I, Q has 45 pens and W has 33 pens. But $45 - 33$ is not equal to 2. So, the case I get eliminated. In case II, again there are two possibilities:

Possibility I – W have 33 pens. So Q will have 35 pens and A will have 44 pens.

Possibility II – Q has 33 pens so W will have 31 pens and A will have 42 pens.

Case II (a)

Posts	Persons	Number of Pens
CEO	Q	35
CFO	W	33
Manager	Z	
Clerk	A	44
Peon	R	45

Case II (b)

Posts	Persons	Number of Pens
CEO	W	31
CFO	Q	33
Manager	Z	
Clerk	A	42
Peon	R	45

7) The difference in the number of pens between R and Z is 14 and Z has the least number of pens. So, $R - 14 = Z$. Z has $45 - 14 = 31$ pens. But no two persons can have the same number of pens. So, case II (b) gets eliminated as W also has 31 pens in it.

The final arrangement is -

Posts	Persons	Number of Pens
CEO	Q	35
CFO	W	33
Manager	Z	31
Clerk	A	44
Peon	R	45

Hence, The correct answer is **Three**.

90. Answer: e

Explanation:

Given:

5 designations – CEO, CFO, Manager, Clerk, and Peon

CEO is the senior most and Peon is the juniormost person.

They have a different number of pens such that no two persons have the same number of pens.

Now,

- 1) Two persons are junior to Z. It means Z is a Manager.
- 2) The one who is just senior to the one who is Manager has 33 pens. It means CFO has 33 pens.
- 3) One designation lies between the one who has 33 pens and A. It means A is Clerk.

Posts	Persons	Number of Pens
CEO		
CFO		33
Manager	Z	
Clerk	A	
Peon		

- 4) A is just senior to the one who has 45 pens. It means Peon has 45 pens.
- 5) There is one designation between the Manager and R. It means R can be either CEO or Peon.

Case I

Posts	Persons	Number of Pens
CEO	R	
CFO		33
Manager	Z	
Clerk	A	
Peon		45

Case II

Posts	Persons	Number of Pens
CEO		
CFO		33
Manager	Z	
Clerk	A	
Peon	R	45

6) A has 11 pens more and 9 pens more than W and Q respectively. It means $A = W + 11$ and $A = Q + 9$. $W + 11 = Q + 9$. $Q - W = 2$. Q has more pens than W. In case I, Q has 45 pens and W has 33 pens. But $45 - 33$ is not equal to 2. So, the case I get eliminated. In case II, again there are two possibilities:

Possibility I – W have 33 pens. So Q will have 35 pens and A will have 44 pens.

Possibility II – Q has 33 pens so W will have 31 pens and A will have 42 pens.

Case II (a)

Posts	Persons	Number of Pens
CEO	Q	35
CFO	W	33
Manager	Z	
Clerk	A	44
Peon	R	45

Case II (b)

Posts	Persons	Number of Pens
CEO	W	31
CFO	Q	33
Manager	Z	
Clerk	A	42
Peon	R	45

7) The difference in the number of pens between R and Z is 14 and Z has the least number of pens. So, $R - 14 = Z$. Z has $45 - 14 = 31$ pens. But no two persons can have the same number of pens. So, case II (b) gets eliminated as W also has 31 pens in it.

The final arrangement is -

Posts	Persons	Number of Pens
CEO	Q	35
CFO	W	33
Manager	Z	31
Clerk	A	44
Peon	R	45

Hence, The correct answer is W .

91. Answer: b

Explanation:

Given:

5 designations – CEO, CFO, Manager, Clerk, and Peon

CEO is the senior most and Peon is the juniormost person.

They have a different number of pens such that no two persons have the same number of pens.

Now,

- 1) Two persons are junior to Z. It means Z is a Manager.
- 2) The one who is just senior to the one who is Manager has 33 pens. It means CFO has 33 pens.
- 3) One designation lies between the one who has 33 pens and A. It means A is Clerk.

Posts	Persons	Number of Pens
CEO		
CFO		33
Manager	Z	
Clerk	A	
Peon		

4) A is just senior to the one who has 45 pens. It means Peon has 45 pens.

5) There is one designation between the Manager and R. It means R can be either CEO or Peon.

Case I

Posts	Persons	Number of Pens
CEO	R	
CFO		33
Manager	Z	
Clerk	A	
Peon		45

Case II

Posts	Persons	Number of Pens
CEO		
CFO		33
Manager	Z	
Clerk	A	
Peon	R	45

6) A has 11 pens more and 9 pens more than W and Q respectively. It means $A = W + 11$ and $A = Q + 9$. $W + 11 = Q + 9$. $Q - W = 2$. Q has more pens than W. In case I, Q has 45 pens and W has 33 pens. But $45 - 33$ is not equal to 2. So, the case I get eliminated. In case II, again there are two possibilities:

Possibility I - W have 33 pens. So Q will have 35 pens and A will have 44 pens.

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Case II (a)

Posts	Persons	Number of Pens
CEO	Q	35
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Manager	Z	
Clerk	A	44
Peon	R	45

Case II (b)

Posts	Persons	Number of Pens
CEO	W	31
CFO	Q	33
Manager	Z	
Clerk	A	42
Peon	R	45

7) The difference in the number of pens between R and Z is 14 and Z has the least number of pens. So, $R - 14 = Z$. Z has $45 - 14 = 31$ pens. But no two persons can have the same number of pens. So, case II (b) gets eliminated as W also has 31 pens in it.

The final arrangement is -

Posts	Persons	Number of Pens
CEO	Q	35
CFO	W	33
Manager	Z	31
Clerk	A	44
Peon	R	45

Hence, The correct answer is 44 .

92. Answer: d

Explanation:

Detailed solution will be provided soon.

Given word : REVOLUTION

Letters	R	E	V	O	L	U	T	I	O	N
Position	18	5	22	15	12	21	20	9	15	14

Forward pair - None

Backward pair -4 - NO, IL, TU and OR.

93. Answer: e

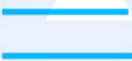
Explanation:

Detailed solution will be provided soon.

Given 9 member in a family- F, G, H, I, J, K, L, M and N.

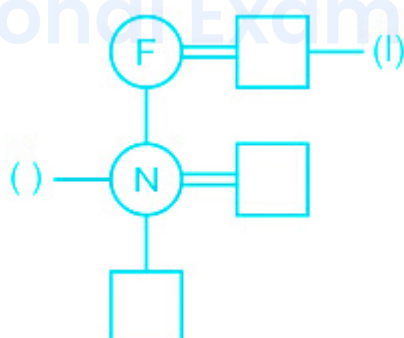
Three generations, two married couples. There is no single parent in the family.

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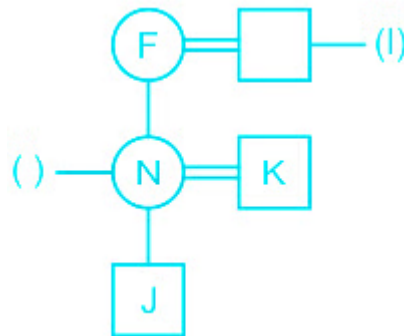
SYMBOLS IN DIAGRAM	MEANING
	MALE
	FEMALE
	SIBLINGS
	DIFFERENCE OF A GENERATION
	MARRIED COUPLE

1) N is the daughter of F who has two children. F is the sister-in-law of I. N has a son.

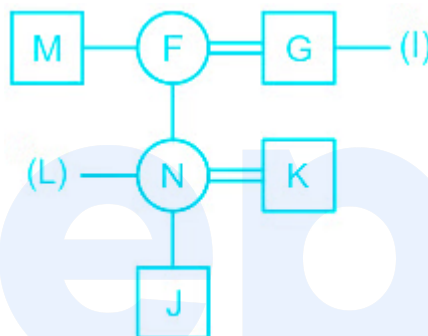
So, F and N both are married. Because there is no single parent in the family.



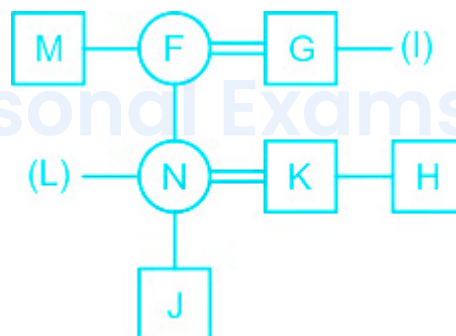
2) J is the son of K and J doesn't have a sister.



3) M is the only brother-in-law of J's grandfather. G belongs to the first generation of the family. Also, L is G's child. So, G is married. G is the grandfather of J and M is the only brother of F.



4) H is the only brother-in-law of N.



Gender of L is not known.

Hence, relation between L and maternal uncle of N cannot be determined.

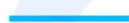
94. Answer: d

Explanation:

Detailed solution will be provided soon.

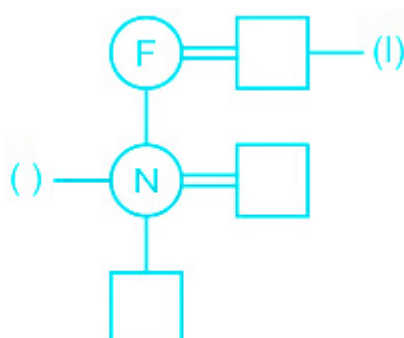
Given 9 member in a family- F, G, H, I, J, K, L, M and N.

Three generations, two married couples. There is no single parent in the family.

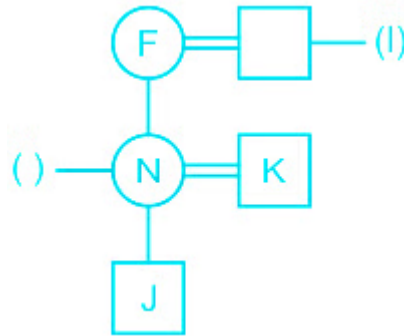
SYMBOLS IN DIAGRAM	MEANING
	MALE
	FEMALE
	SIBLINGS
	DIFFERENCE OF A GENERATION
	MARRIED COUPLE

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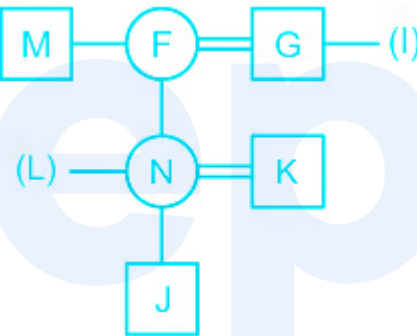
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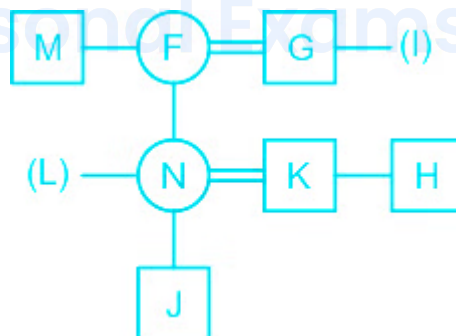
2) J is the son of K and J doesn't have a sister.



3) M is the only brother-in-law of J's grandfather. G belongs to the first generation of the family. Also, L is G's child. So, G is married. G is the grandfather of J and M is the only brother of F.



4) H is the only brother-in-law of N.



If G does not have a brother, then I is the sister of G.

Hence, I is the paternal aunt of H's sister-in-law N.

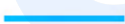
95. Answer: d

Explanation:

Detailed solution will be provided soon.

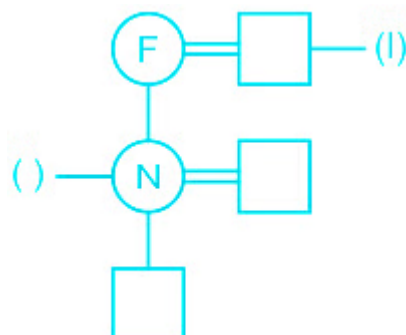
Given 9 member in a family- F, G, H, I, J, K, L, M and N.

Three generations, two married couples. There is no single parent in the family.

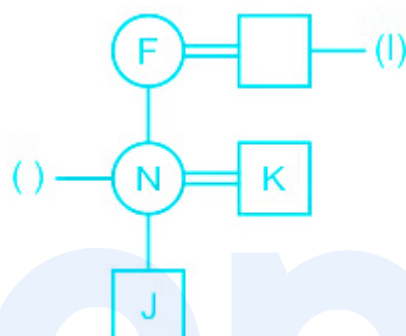
SYMBOLS IN DIAGRAM	MEANING
	MALE
	FEMALE
	SIBLINGS
	DIFFERENCE OF A GENERATION
	MARRIED COUPLE

1) N is the daughter of F who has two children. F is the sister-in-law of I. N has a son.

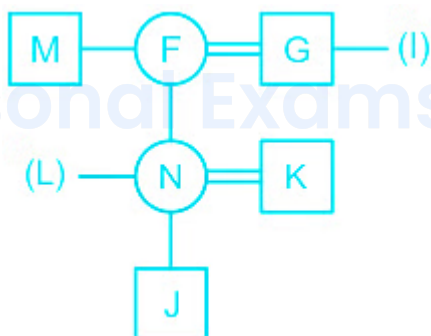
So, F and N both are married. Because there is no single parent in the family.



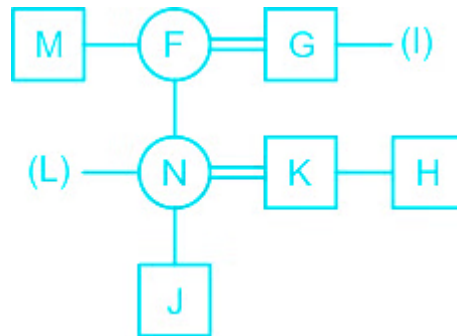
2) J is the son of K and J doesn't have a sister.



3) M is the only brother-in-law of J's grandfather. G belongs to the first generation of the family. Also, L is G's child. So, G is married. G is the grandfather of J and M is the only brother of F.



4) H is the only brother-in-law of N.



If L is the daughter of G, we still can't find the gender of I.

Hence, **number of male members cannot be determined.**

96. Answer: b

Explanation:

Given: -

Row 1 – A, B, C, and D facing north but not necessarily in the same order.

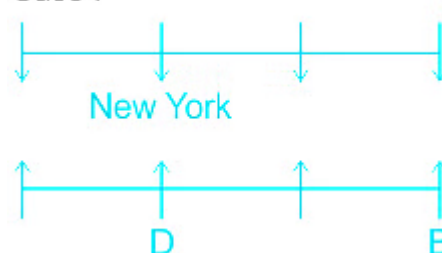
Row 2 – P, Q, R, and S facing South but not necessarily in the same order.

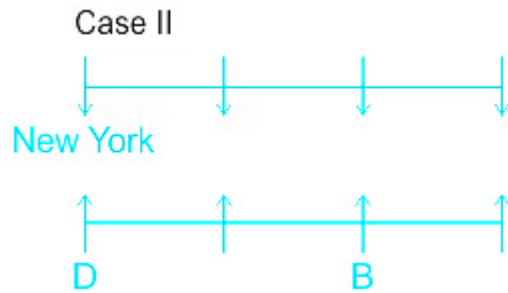
8 cities – Delhi, Damascus, Tokyo, New York, London, Beijing, Dhaka, and Madrid,

Now,

1) D sits second to the left of B and faces the person who is from New York. Here two possibilities exist:

Case I

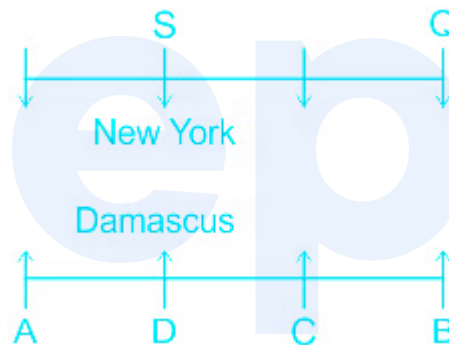




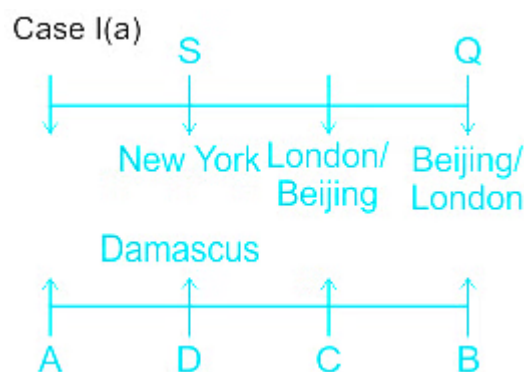
2) More than one person sits between B and A. It means Case II gets eliminated as B sits at the extreme right end and A sits at the extreme left end of row 1. So, the remaining C sits between B and D.

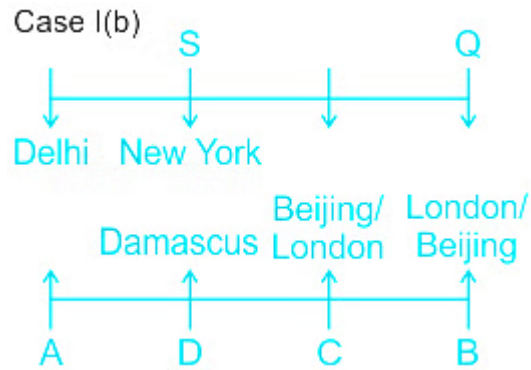
3) S is sitting second to the right of Q and faces D who is from Damascus.

Case I -

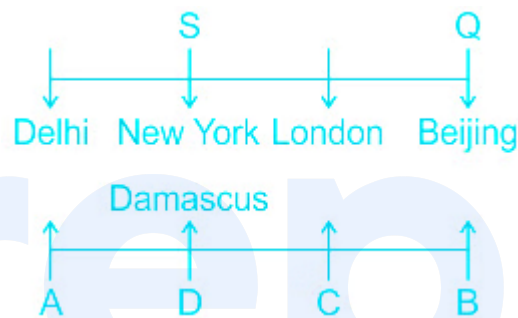


4) Persons coming from London and Beijing sit adjacent to each other. They can be Q and his adjacent person or C and B.





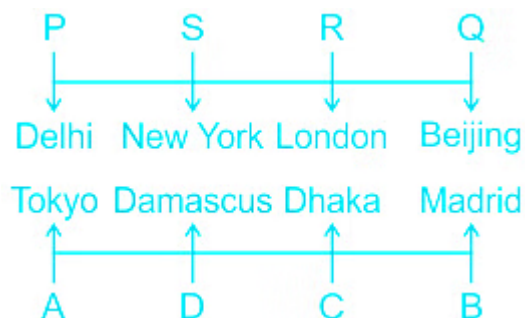
5) The person who is from London sits second to the left of the person who is from Delhi. This is possible in Case I (a) only. So, Case I (b) gets eliminated.



6) P sits at one of the extreme ends of the row but does not face the person who is from Madrid. The remaining R sits between S and Q.

7) The person who is from Dhaka sits adjacent to the person who is from Madrid but not at the end of the row. It means C is from Dhaka and B form Madrid. The remaining A is from Tokyo.

The **final arrangement** is as follows:



P faces the person who is from Tokyo.

Hence, the correct answer is **P**.

97. Answer: d

Explanation:

Given: –

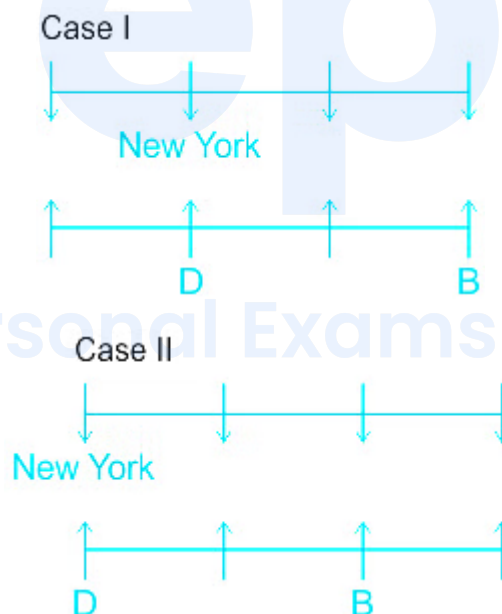
Row 1 – A, B, C, and D facing north but not necessarily in the same order.

Row 2 – P, Q, R, and S facing South but not necessarily in the same order.

8 cities – Delhi, Damascus, Tokyo, New York, London, Beijing, Dhaka, and Madrid,

Now,

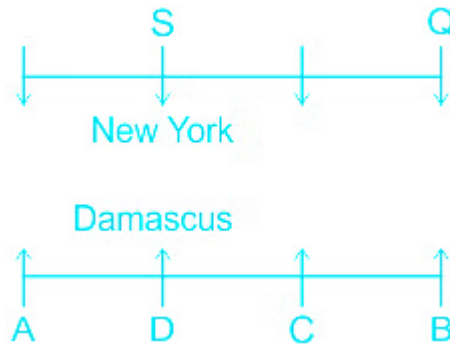
1) D sits second to the left of B and faces the person who is from New York. Here two possibilities exist:



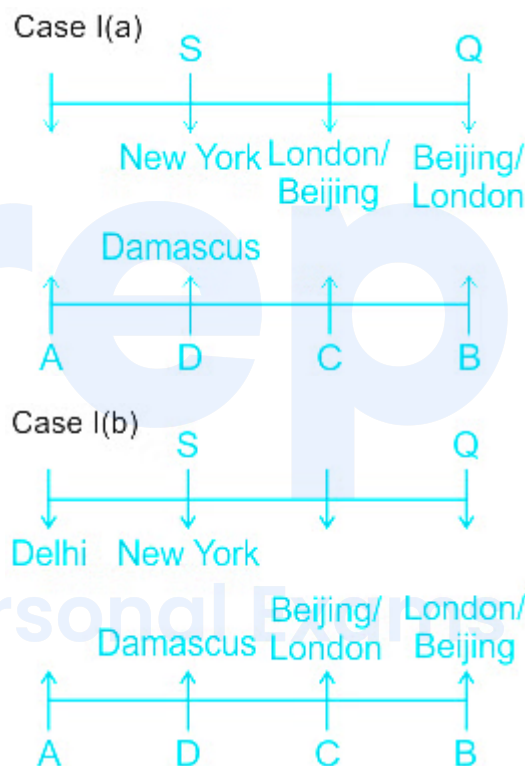
2) More than one person sits between B and A. It means Case II gets eliminated as B sits at the extreme right end and A sits at the extreme left end of row 1. So, the remaining C sits between B and D.

3) S is sitting second to the right of Q and faces D who is from Damascus.

Case I –

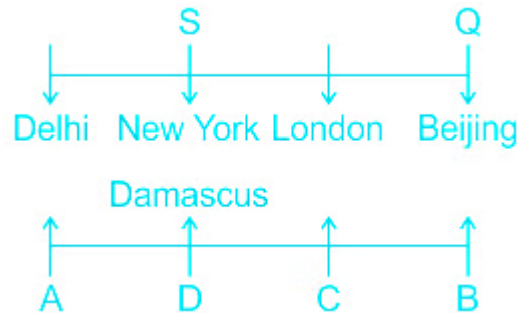


4) Persons coming from London and Beijing sit adjacent to each other. They can be Q and his adjacent person or C and B.



5) The person who is from London sits second to the left of the person who is from Delhi. This is possible in Case I (a) only. So, Case I (b) gets eliminated.

Case I (a) -



6) P sits at one of the extreme ends of the row but does not face the person who is from Madrid. The remaining R sits between S and Q.

7) The person who is from Dhaka sits adjacent to the person who is from Madrid but not at the end of the row. It means C is from Dhaka and B form Madrid. The remaining A is from Tokyo.

The final arrangement is as follows:



All the pairs have the second letter being the immediate neighbor of the person sitting opposite to the first letter of the pair except SB.

Hence, the correct answer is **SB**.

98. Answer: c

Explanation:

Given: –

Row 1 – A, B, C, and D facing north but not necessarily in the same order.

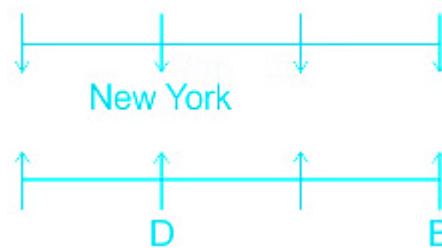
Row 2 – P, Q, R, and S facing South but not necessarily in the same order.

8 cities – Delhi, Damascus, Tokyo, New York, London, Beijing, Dhaka, and Madrid,

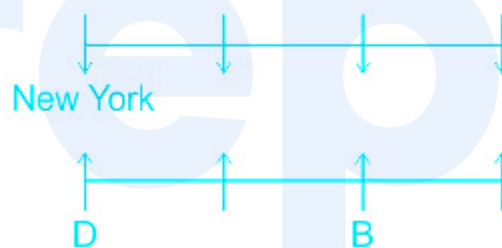
Now,

1) D sits second to the left of B and faces the person who is from New York. Here two possibilities exist:

Case I



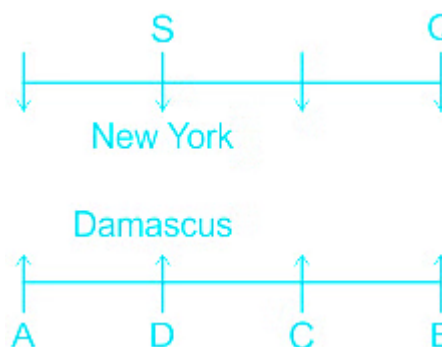
Case II



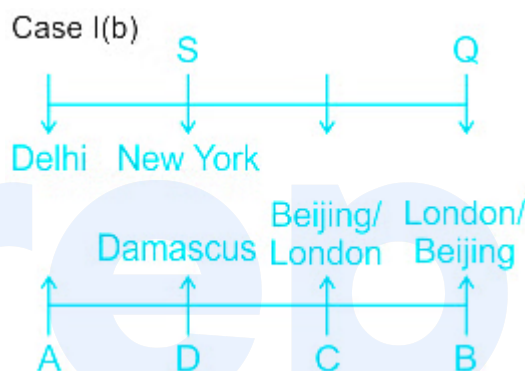
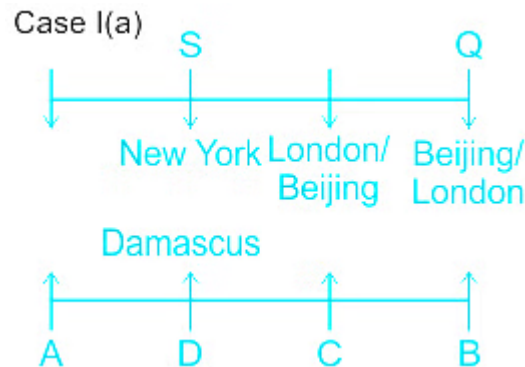
2) More than one person sits between B and A. It means Case II gets eliminated as B sits at the extreme right end and A sits at the extreme left end of row 1. So, the remaining C sits between B and D.

3) S is sitting second to the right of Q and faces D who is from Damascus.

Case I -

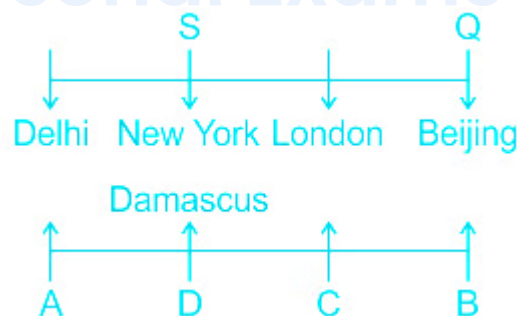


4) Persons coming from London and Beijing sit adjacent to each other. They can be Q and his adjacent person or C and B.



5) The person who is from London sits second to the left of the person who is from Delhi. This is possible in Case I (a) only. So, Case I (b) gets eliminated.

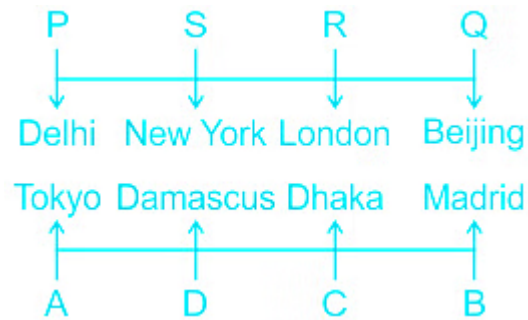
Case I (a) -



6) P sits at one of the extreme ends of the row but does not face the person who is from Madrid. The remaining R sits between S and Q.

7) The person who is from Dhaka sits adjacent to the person who is from Madrid but not at the end of the row. It means C is from Dhaka and B form Madrid. The remaining A is from Tokyo.

The final arrangement is as follows:



One person sits between the person from Damascus and Madrid.

Hence, the correct answer is 1.

99. Answer: d

Explanation:

Given: –

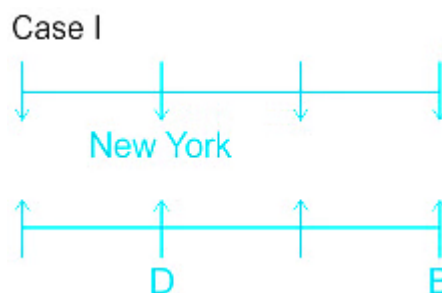
Row 1 – A, B, C, and D facing north but not necessarily in the same order.

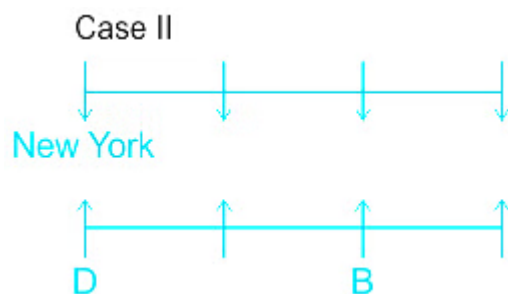
Row 2 – P, Q, R, and S facing South but not necessarily in the same order.

8 cities – Delhi, Damascus, Tokyo, New York, London, Beijing, Dhaka, and Madrid,

Now,

1) D sits second to the left of B and faces the person who is from New York. Here two possibilities exist:

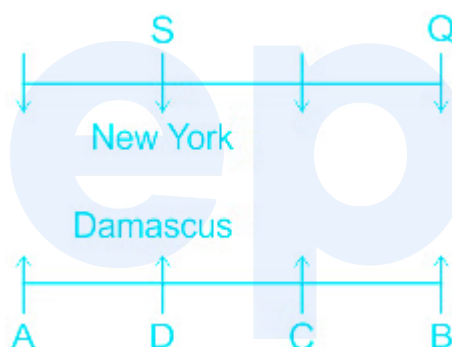




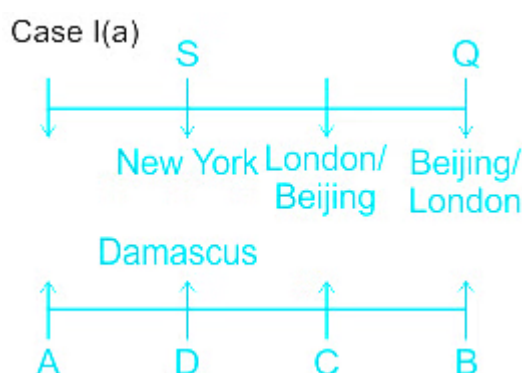
2) More than one person sits between B and A. It means Case II gets eliminated as B sits at the extreme right end and A sits at the extreme left end of row 1. So, the remaining C sits between B and D.

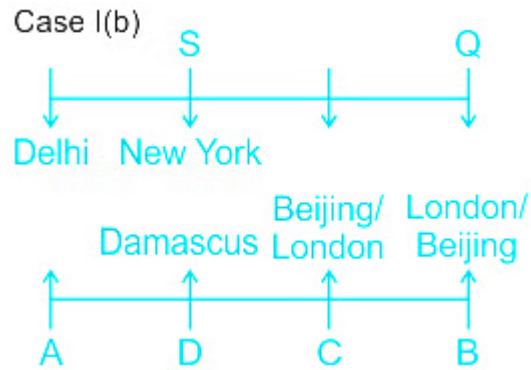
3) S is sitting second to the right of Q and faces D who is from Damascus.

Case I -



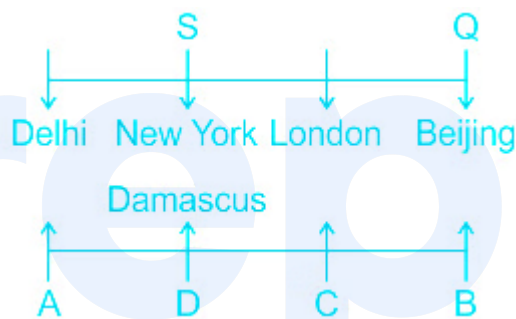
4) Persons coming from London and Beijing sit adjacent to each other. They can be Q and his adjacent person or C and B.





5) The person who is from London sits second to the left of the person who is from Delhi. This is possible in Case I (a) only. So, Case I (b) gets eliminated.

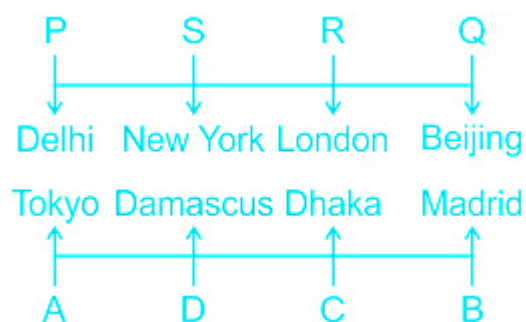
Case I (a) -



6) P sits at one of the extreme ends of the row but does not face the person who is from Madrid. The remaining R sits between S and Q.

7) The person who is from Dhaka sits adjacent to the person who is from Madrid but not at the end of the row. It means C is from Dhaka and B form Madrid. The remaining A is from Tokyo.

The final arrangement is as follows:



D is sitting opposite to the person from New York

Hence, the correct answer is D.

100. Answer: a

Explanation:

Given: –

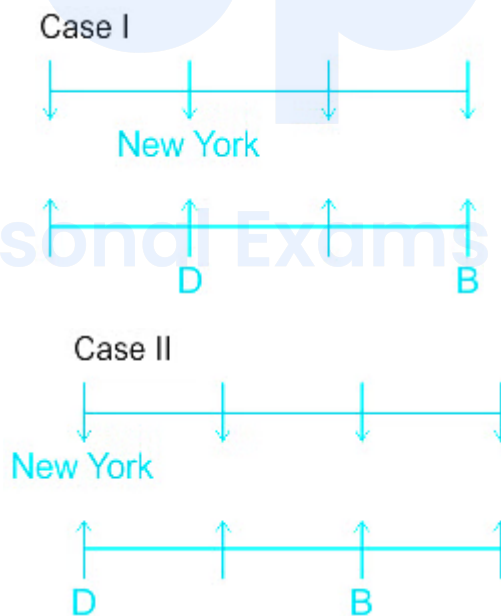
Row 1 – A, B, C, and D facing north but not necessarily in the same order.

Row 2 – P, Q, R, and S facing South but not necessarily in the same order.

8 cities – Delhi, Damascus, Tokyo, New York, London, Beijing, Dhaka, and Madrid,

Now,

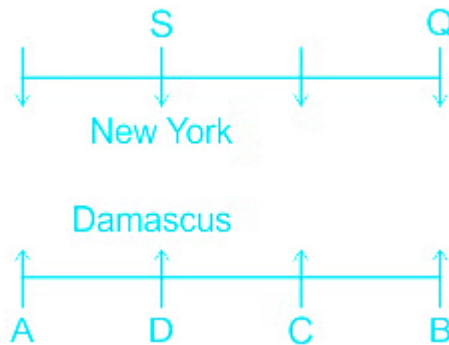
1) D sits second to the left of B and faces the person who is from New York. Here two possibilities exist:



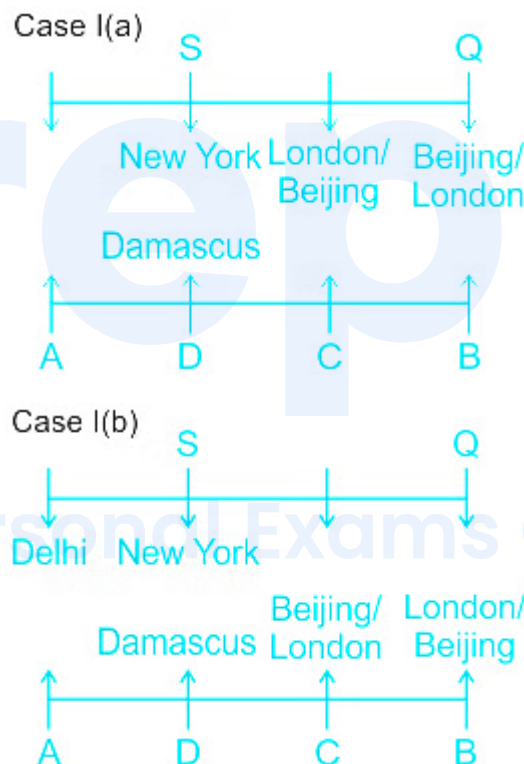
2) More than one person sits between B and A. It means Case II gets eliminated as B sits at the extreme right end and A sits at the extreme left end of row 1. So, the remaining C sits between B and D.

3) S is sitting second to the right of Q and faces D who is from Damascus.

Case I -

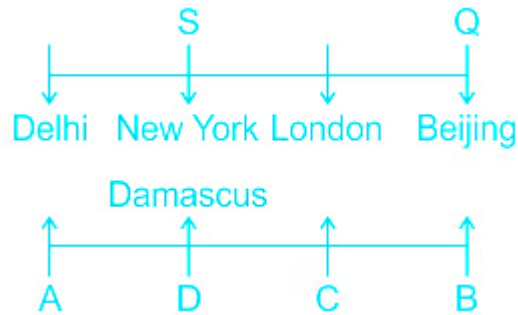


4) Persons coming from London and Beijing sit adjacent to each other. They can be Q and his adjacent person or C and B.



5) The person who is from London sits second to the left of the person who is from Delhi. This is possible in Case I (a) only. So, Case I (b) gets eliminated.

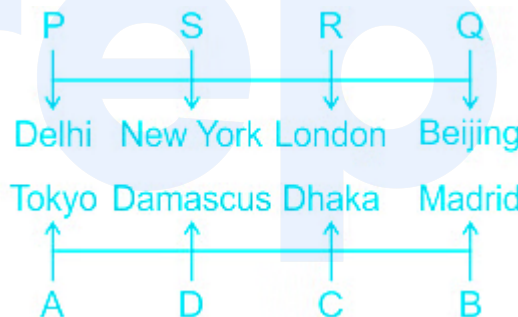
Case I (a) -



6) P sits at one of the extreme ends of the row but does not face the person who is from Madrid. The remaining R sits between S and Q.

7) The person who is from Dhaka sits adjacent to the person who is from Madrid but not at the end of the row. It means C is from Dhaka and B form Madrid. The remaining A is from Tokyo.

The final arrangement is as follows:



D is from **Damascus**.

Hence, the correct answer is **D is from Dhaka**.