

Answers

1. Answer: d

Explanation:

The correct answer is 'Emancipation.'

★ Key Points

- The word 'Liberty' means **The state of being free within society from oppressive restrictions**.
 - Example: *People often have to fight for their **liberty**.*
- Let's look at the meaning of the given options:-
 - **Subjugation** - **The action of bringing someone or something under domination or control**.
 - Example: *They are bravely resisting **subjugation** by their more powerful neighbors.*
 - **Captivity** - **The condition of being confined**.
 - Example: *She was tortured many times during her **captivity**.*
 - **Dependence** - **The state of relying on or being controlled by someone or something else**.
 - Example: *He was freed from financial **dependence** on his parents.*
 - **Emancipation** - **The fact or process of being set free from legal, social, or political restrictions; liberation**.
 - Example: *They rejoiced over their own **emancipation**.*
 - **Internment** - **The state of being confined**.
 - Example: *He refers mainly to **internment** and other measures that can not be justified.*

Hence, the only possible answer is option 4.

★ Additional Information

- The synonyms of the word 'Liberty' are "Emancipation, **Autonomy, Freedom**".
- The antonyms of the word 'Liberty' are "Subjugation, Captivity, Dependence".

2. Answer: e

Explanation:

The correct answer is 'Mr. Graves.'

★ Key Points

- The eleventh sentence of the second paragraph says "*The postmaster, Mr. Graves, followed him, carrying a three-legged stool, and the stool was put in the center of the square and Mr. Summers set the black box down on it.*"
- From the above sentence, we can say that Mr. Graves is the postmaster in the passage.

Hence, the only possible answer is option 3.

3. Answer: c

Explanation:

The correct answer is 'Only B.'

★ Key Points

- The third sentence of the second paragraph says "*The women, wearing faded house dresses and sweaters, came shortly after their menfolk*" and the fifth sentence of the first paragraph says "*Bobby Martin had already stuffed his pockets full of stones, and the other boys soon followed his example, selecting the smoothest and roundest stones; Bobby and Harry Jones and Dickie Delacroix-- the villagers pronounced this name 'Dellacroy'-- eventually made a great pile of stones in one corner of the square and guarded it against the raids of the other boys*".
 - From the above sentence, we can say that statements A and C are incorrect according to the given passage.
- The first sentence of the first paragraph says "*The morning of June 27th was clear and sunny, with the fresh warmth of a full-summer day; the flowers were blossoming profusely and the grass was richly green.*"
 - From the above sentence, we can say that statement B is correct according to the given passage.

Hence, the only possible answer is option 3.

4. Answer: a

Explanation:

The correct answer is 'A short period of time.'

★ Key Points

- Given Idiom: **For a while** means A short period of time .
 - Example: *I will be able to sit with you **for a while** , but I need to get home soon.*
- From the given options, the first option is the most appropriate meaning of the given idiom.

Hence, the correct answer is option 1 .

★ Mistake Points

- We may think from the phrase "For a while" that it is all about passing time in a leisurely manner.

★ Additional Information

- The origin of awhile can be traced to Middle English ānehwīle, having originated before 1000 BCE. It is an adverb denoting the amount of time that is spent somewhere. When it is used as the object of the preposition it is separated into two words a while. However, it is becoming more common to write it as one word, He is staying for awhile.*

5. Answer: c

Explanation:

The correct answer is 'Restrained .'

★ Key Points

- The word ' Boisterous ' means **Noisy, energetic, and cheerful** .
 - Example: *The **boisterous** welcome restored the princess's good spirits .*
- Let's look at the meaning of the given options:-
 - Exuberant**- Full of energy, excitement, and cheerfulness .
 - Example: *He is energetic and **exuberant**.*
 - Frisky**- Playful and full of energy .
 - Example: *The spring weather's making me feel quite **frisky**.*
 - Restrained** - Not showing strong feelings .
 - Example: *With an effort, he **restrained** himself .*
 - Spirited** - Full of energy, enthusiasm, and determination .
 - Example: *He was by nature a **spirited** little boy .*
 - Rambunctious**- Uncontrollably exuberant; boisterous .
 - Example: *Their **rambunctious** son always got into trouble .*

Hence, the only possible answer is option 3 .

★ Additional Information

- The antonyms of the word ' Boisterous ' are "Restrained, **Quiet**, Orderly" .
- The synonyms of the word ' Boisterous ' are "Exuberant, Spirited, Rambunctious" .

6. Answer: c

Explanation:

The correct answer is 'From . '

★ Key Points

- The given sentence is talking about **the men who stood away from the pile of stones in the corner** .
- Let us explore the given options:
 - The preposition 'Inside ' means **Moving so as to end up within** .
 - The preposition ' After ' means **Following or behind somebody or something** .
 - The preposition 'From' is used **For indicating separation or removal** .
 - The preposition 'Before ' means **In front of someone or something** .
 - The preposition ' On ' means **In a place or position** .

Hence, the correct answer is option 3 .

Complete Sentence: *They stood together, away **from** the pile of stones in the corner, and their jokes were quiet and they smiled rather than laughed .*

7. Answer: b

Explanation:

The correct answer is '**Both A and B** . '

★ Key Points

- The fifth sentence of the second paragraph says "***Soon the women, standing by their husbands, began to call to their children, and the children came reluctantly, having to be called four or five times***" and the ninth sentence of the second paragraph says "***He was a***

round-faced, jovial man and he ran the coal business, and people were sorry for him because he had no children and his wife was a scold'.

- From the above sentence, we can say that statements A and B are incorrect according to the given passage.
- The sixth sentence of the second paragraph says "*Bobby Martin ducked under his mother's grasping hand and ran, laughing, back to the pile of stones.*"
 - From the above sentence, we can say that statement C is correct according to the given passage.

Hence, the only possible answer is option 2 .

8. Answer: b

Explanation:

The correct answer is '**Mr. Summers** .'

★ Key Points

- The eighth sentence of the second paragraph says "*The lottery was conducted --as were the square dances, the teen club, and the Halloween program-- by Mr. Summers who had time and energy to devote to civic activities.*"
- From the above sentence, we can say that **Mr. Summers** is in charge of organizing and conducting the annual lottery .

Hence, the only possible answer is option 2 .

9. Answer: d

Explanation:

The correct answer is '**About 300** .'

★ Key Points

- The second sentence of the first paragraph says "*The people of the village began to gather in the square, between the post office and the bank, around ten o'clock; in some towns, there were so many people that the lottery took two days and had to be started on June 27th but in this village, where there were only about three hundred people , the whole lottery*

took less than two hours, so it could begin at ten o'clock in the morning and still be through in time to allow the villagers to get home for noon dinner."

- From the above sentence, we can say that according to the passage, about 300 **people live in the village** .

Hence, the only possible answer is option 4 .

10. Answer: c

Explanation:

The correct answer is '**Standing in a group talking about tractors and rain** .'

★ Key Points

- The first sentence of the second paragraph says "*Soon the men began to gather surveying their own children, speaking of planting and rain, tractors, and taxes.*"
- From the above sentence, we can say that according to the passage, the men are **standing in a group talking about tractors and rain** before it is time for the lottery to begin .

Hence, the only possible answer is option 3 .

11. Answer: c

Explanation:

The correct answer is **option 3 i.e. allowed**

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Explanation:

We have to choose a word which is similar to the emboldened word and can replace it.

Let's take a look at the meaning and usage of all the words given in the question and options-

- Permitted: *officially allowed (someone) to do something.*
- Suffocated: felt or caused to feel trapped and oppressed.
- Pacified: subdued the anger, agitation, or excitement of.
- Allowed: *let (someone) have or do something.*
- Forbidden: ordered (someone) not to do something.

Therefore, from the given options, the best alternative for the emboldened word is 'allowed'.

12. Answer: a

Explanation:

The correct answer is option 1 i.e. broken



Explanation:

We have to choose the word which is similar to the emboldened word and can replace it.

Let's take a look at the meaning and usage of all the words given in the question and options-

- Shattered: *Broke or caused to break suddenly and violently into pieces.*
- Broken: *(Past participle of 'break') separated into pieces as a result of a blow, shock, or strain.*
- Sealed: Fastened or closed securely.
- Repaired: Restored something to its original state.
- Sewed: Joined together by making stitches with a needle and thread.

Therefore, from the given options, the best alternative for the 'emboldened' word is 'broken'.

13. Answer: b

Explanation:

The correct answer is option 2 i.e. Towed.

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Explanation:

We have to choose the word which is similar to the emboldened word and can replace it.

Let's take a look at the meaning and usage of all the words given in the question and options-

- Hauled: *pulled or dragged with effort or force.*
- Torn: Past tense and past participle of 'tear', which means 'to pull something apart into pieces'.
- Towed: *(of a motor vehicle or boat) pull (another vehicle or boat) along with a rope, chain, or tow bar.*

- Alienated: made (someone) feel isolated or estranged.
- Placed: put in a particular position.

Therefore, from the given options, the best alternative for the 'emboldened' word is 'towed'.

14. Answer: a

Explanation:

The correct answer is **issues relegate**.

★ Key Points

- In the given sentence, the emboldened part **issues relegates** is grammatically incorrect.
- In the given sentence, the subject is 'businesses' and it must be followed by a plural verb. We have to replace the singular verb 'relegates' with the plural verb 'relegate'.
- So, **issues relegate** is the correct answer.

So, the correct sentence is, *Businesses that ignore accessibility issues relegate people with disabilities to second-class status.*

★ Additional Information

- The word **relegate** means to assign an inferior rank or position to.
- **relegated** is the past tense of the verb relegate.

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15. Answer: b

Explanation:

The correct answer is **Understanding consumer**.

★ Key Points

- In the given sentence, the emboldened part **Having understood consumer** is grammatically incorrect.
- In the given sentence, the participle **Having understood** has been used as a subject, which is incorrect. Also, the given sentence is in the simple present tense.
- The verb understand must be written as a *gerund*, in its **-ing form** because it is a verb that is functioning as a noun in this sentence.

- So, Understanding consumer is the correct answer.

So, the correct sentence is, *Understanding consumer behaviour is a crucial aspect of today's market, especially for effective marketing and branding of the products.*

★ Additional Information

- A **gerund** is the -ing form of a verb that functions the same as a noun.
 - For example, *Running is fun*. In this sentence, **running** is the gerund. It acts just like a noun.
- **understood** is the past tense of the verb 'understand'.

16. Answer: a

Explanation:

The correct answer is **option 1 i.e. BCEAD**.

★ Explanation

- **First is B** as it establishes the subject i.e. the pros of something. **B** is the only opening segment that can lead to the formation of a meaningful and grammatically correct sentence.
- **Next is C** as it tells the pros of what is being talked about.
- **E follows C** as it further talks about the pros.
- **A** contextually follows E.
- **Last is D** as it tells where the hurdles might appear.

Correct sentence- *The pros of turning towards a more energy-efficient business model clearly outweigh the hurdles that may lie in the way.*

17. Answer: c

Explanation:

The correct answer is **option 3 i.e. DEBCA**.

★ Explanation

- **First is D** as it establishes the subject i.e. multiple cases. **D** is the only opening segment that can lead to the formation of a meaningful and grammatically correct sentence.
- **Next is E** as it states what the cases are related to.
- **B follows E** as it tells what businesses have saved.
- **Next is C** as it tells how they have saved millions.
- **Last is A** as it tells where the changes were made.

Correct sentence– *There are multiple cases where businesses have saved millions of rupees by making smaller changes in their processes.*

18. Answer: a

Explanation:

The correct answer is **option 1 i.e. BACDE**.

★ Explanation

- **First is B** as it establishes the subject i.e. solar tariffs. **B** is the only opening segment that can lead to the formation of a meaningful and grammatically correct sentence.
- **Next is A** as it tells what was set.
- **C follows A** as it describes the record.
- **Next is D** as it tells where the record was set i.e. in a 2000 MW auction.
- **Last is E** as it tells who conducted the auction.

Correct sentence– *Solar tariffs set a new record of Rs 2.36 per unit in a 2000 MW auction conducted by the Solar Energy Corporation of India.*

19. Answer: b

Explanation:

The correct answer is **option 2 i.e. DCABE**.

★ Explanation

- **First is D** as it establishes the subject i.e. Portugal. **D** is the only opening segment that can lead to the formation of a meaningful and grammatically correct sentence.
- **Next is C** as it tells what was postponed.

- **A follows C** as it is in continuation with C.
- **Next is B** as it tells the reason for postponing.
- **Last is E** as it contextually follows B.

Correct sentence- *Portugal has postponed its second solar energy licensing auction due to the impact of the coronavirus pandemic.*

20. Answer: a

Explanation:

The correct answer is **option 1 i.e. EABCD**.

★ Explanation

- **First is E** as it establishes the subject i.e. Portugal. **E** is the only opening segment that can lead to the formation of a meaningful and grammatically correct sentence.
- **Next is A** as it tells the attitude of the country.
- **B follows A** as it tells what threat the country is facing.
- **Next is C** as it tells the consequence of two major blazes in Portugal.
- **Last is D** as it tells when the people were killed due to these blazes.

Correct sentence - *Portugal is deeply wary of the threat of wildfires after two major blazes killed 106 people three years ago.*

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21. Answer: c

Explanation:

The correct answer is **option 3**.

★ Key Points

- The error in part C of a sentence, error is in usage ' **especial** '
- Here, we need to use the adverb form of ' **especial** '
- Hence we need to replace 'especial' with ' **especially** '

Correct answer - *All the members of the PAGD have expressed their disappointment, **especially** at the absence of any substantial confidence building measures.*

★ Additional Information

- Adverbs usually end with 'ly'.
- If any additional information is given regarding verbs then it is considered as an adverb.
- In the given sentence the adverb **especially** Describes the verb **absence** .

22. Answer: a

Explanation:

The correct answer is option 1.

★ Key Points

- The error in part A of a sentence, the error is in the usage of **often**
- adverb used in the sentence is incorrect, the correct adverb will ' **also** '
- The auxiliaries 'have to' and 'used to' prefer the adverb before **often**.
- hence we need to replace ' **often** ' with 'also '.

Correct answer -It has **also** been set up with a mandate to support and nurture entrepreneurs and provide quality mentorship to steer the entrepreneurial journeys.

★ Additional Information

- If any additional information is given regarding verbs then it is considered as an adverb.
- Adverb **often** is used when certain thing is happened on different occasions.
- while **adverb** also is used to give additional information of something which we have already said.

23. Answer: b

Explanation:

The correct answer is **option 2**.

 Key-Points

- The error is in **Part B** of the sentence. in the use of has
- In the sentence, it is given that large **contingent** . hence there is more than one contingent.

- Hence, **has** should be replaced with **have**.

Correct sentence - *Large contingent of farmers **have** started arriving at protest sites in preparation for their agitation on Thursday.*



Additional Information

- The noun is Part of the sentence which defines persons, Place or things.
- Helping verbs in the sentence is decided with the help of a noun or subject.

24. Answer: a

Explanation:

The correct answer is option 1.



Key-Points

- The error is in **part A** of the sentence Some nouns are always **singular** .
- These are uncountable nouns. Articles A/An are not used with these nouns.
- These nouns are Machinery, work, traffic, business, etc.

Correct sentence - ***Business** always depends on labor and capital.*



Additional Information

- The Noun is Part of the sentence which defines persons, Place or things.
- Helping verbs in the sentence is decided with the help of a noun or subject.
 - Some material nouns are silver, gold, metal, cotton, etc.

25. Answer: e

Explanation:

The correct answer is option 5.

Key-Points

- There is no error in the question
- Some nouns are always in the plural form they don't have a singular form. A plural verb is used with them.
- These nouns are: Cattle, Assets, Alms, Police, Amends, wages
- In the given sentence the verb is already in plural form i.e. 'are' ; thus the given sentence is correct and therefore option 5th is the answer.



Additional Information

- The Noun is Part of the sentence which defines persons, Place or things.
- Helping verbs in the sentence is decided with the help of a noun or subject.
- Some nouns are always used in the plural form
 - Eg. Goggles, Belongings, Breeches, Braces, Binoculars, Dregs, Entrails, Embers, etc

26. Answer: a

Explanation:

The correct answer is F

★ Key Points

- F – presents an independent piece of factual information
- A – tells something more about Indian Railways that was introduced in F
- B – adds to the superlative 'the -est' once mentioned in A
- E – introduces passenger train statistics
- 5 – tells about the most common type of passenger trains
- C – introduces the freight segment and tells its numbers
- D – tells about the average speed of each freight train

Thus the correct order is: F A B E 5 C D: *Indian Railways (IR) is India's national railway system operated by the Ministry of Railways. It manages the fourth largest railway network in the world by size, with a route length of 67,368 kilometres and total track length of 121,407 kilometres. It is also the world's eighth-largest employer with 1.308 million employees as of March 2017. Indian Railway (IR) runs more than 20,000 passenger trains daily, on both long-distance and suburban*

routes, from 7,349 stations across India. Mail or express trains, the most common types, run at an average speed of 50.6 kilometres per hour. In the freight segment, IR runs more than 9,200 trains daily. The average speed of freight trains is around 24 kilometres per hour.

27. Answer: d

Explanation:

The correct answer is A

★ Key Points

- F – presents an independent piece of factual information
- A – tells something more about Indian Railways that was introduced in F
- B – adds to the superlative 'the -est' once mentioned in A
- E – introduces passenger train statistics
- 5 – tells about the most common type of passenger trains
- C – introduces the freight segment and tells its numbers
- D – tells about the average speed of each freight train

Thus the correct order is: *FABE5CD*: Indian Railways (IR) is India's national railway system operated by the Ministry of Railways. It manages the fourth largest railway network in the world by size, with a route length of 67,368 kilometres and total track length of 121,407 kilometres. It is also the world's eighth-largest employer with 1.308 million employees as of March 2017. Indian Railway (IR) runs more than 20,000 passenger trains daily, on both long-distance and suburban routes, from 7,349 stations across India. Mail or express trains, the most common types, run at an average speed of 50.6 kilometres per hour. In the freight segment, IR runs more than 9,200 trains daily. The average speed of freight trains is around 24 kilometres per hour.

28. Answer: e

Explanation:

The correct answer is B

★ Key Points

- F – presents an independent piece of factual information
- A – tells something more about Indian Railways that was introduced in F

- B – adds to the superlative 'the -est' once mentioned in A
- E – introduces passenger train statistics
- 5 – tells about the most common type of passenger trains
- C – introduces the freight segment and tells its numbers
- D – tells about the average speed of each freight train

Thus the correct order is: *FABE5CD: Indian Railways (IR) is India's national railway system operated by the Ministry of Railways. It manages the fourth largest railway network in the world by size, with a route length of 67,368 kilometres and total track length of 121,407 kilometres. It is also the world's eighth-largest employer with 1.308 million employees as of March 2017. Indian Railway (IR) runs more than 20,000 passenger trains daily, on both long-distance and suburban routes, from 7,349 stations across India. Mail or express trains, the most common types, run at an average speed of 50.6 kilometres per hour. In the freight segment, IR runs more than 9,200 trains daily. The average speed of freight trains is around 24 kilometres per hour.*

29. Answer: a

Explanation:

The correct answer is C

★ Key Points

- F – presents an independent piece of factual information
- A – tells something more about Indian Railways that was introduced in F
- B – adds to the superlative 'the -est' once mentioned in A
- E – introduces passenger train statistics
- 5 – tells about the most common type of passenger trains
- C – introduces the freight segment and tells its numbers
- D – tells about the average speed of each freight train

Thus the correct order is: *FABE5CD: Indian Railways (IR) is India's national railway system operated by the Ministry of Railways. It manages the fourth largest railway network in the world by size, with a route length of 67,368 kilometres and total track length of 121,407 kilometres. It is also the world's eighth-largest employer with 1.308 million employees as of March 2017. Indian Railway (IR) runs more than 20,000 passenger trains daily, on both long-distance and suburban routes, from 7,349 stations across India. Mail or express trains, the most common types, run at an average speed of 50.6 kilometres per hour. In the freight segment, IR runs more than 9,200 trains daily. The average speed of freight trains is around 24 kilometres per hour.*

30. Answer: b

Explanation:

The correct answer is D

★ Key Points

- F - presents an independent piece of factual information
- A - tells something more about Indian Railways that was introduced in F
- B - adds to the superlative 'the -est' once mentioned in A
- E - introduces passenger train statistics
- 5 - tells about the most common type of passenger trains
- C - introduces the freight segment and tells its numbers
- D - tells about the average speed of each freight train

Thus the correct order is: *FABE5CD: Indian Railways (IR) is India's national railway system operated by the Ministry of Railways. It manages the fourth largest railway network in the world by size, with a route length of 67,368 kilometres and total track length of 121,407 kilometres. It is also the world's eighth-largest employer with 1.308 million employees as of March 2017. Indian Railway (IR) runs more than 20,000 passenger trains daily, on both long-distance and suburban routes, from 7,349 stations across India. Mail or express trains, the most common types, run at an average speed of 50.6 kilometres per hour. In the freight segment, IR runs more than 9,200 trains daily. The average speed of freight trains is around 24 kilometres per hour.*

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31. Answer: b

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 following 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 the least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Since, we need to find out the approximate value, we can write these values to their nearest integers.

Given expression is

$$719.99 \div 5.98 + 14.95 \times 2^3 - 59.99 \times 1.98 + \sqrt{14399.99} = ?$$

$$\Rightarrow 720 \div 6 + 15 \times 2^3 - 60 \times 2 + \sqrt{14400} = ?$$

$$\Rightarrow 120 + 120 - 120 + \sqrt{14400} = ?$$

$$\Rightarrow 120 + 120 - 120 + 120 = ?$$

$$\therefore ? = 240$$

32. 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 following 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 the least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Since, we need to find out the approximate value, we can write these values to their nearest integers.

Given expression is

$$[(6.97 \times 7.07) / (7.17 \times 6.94)] \times 6.978 = 7.13 ?$$

After approximation

$$\Rightarrow [(7 \times 7) / \{7 \times 7\}] \times 7 = 7 ?$$

$$\Rightarrow [(7 \times 7) / (7^{(2 \times 3)} \times 7)] \times 7 = 7 ?$$

$$[(7 \times 7) / (7 \times 7)] \times 7 = 7 ?$$

$$\Rightarrow 1/7 \times 3 \times 7 \times 8 = 7 ?$$

$$\Rightarrow 7 ? = 7^{(8-3)}$$

$$\Rightarrow ? = 5$$

33. Answer: e

Explanation:

Follow the 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 following 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 the least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Since we need to find out the approximate value, we can write these values to their nearest integers.

Given expression is

$$(424.14 - 224.34) + (672.86 - 242.85) = ? - (423.23 - 223.56)$$

$$\Rightarrow 200 + 430 = ? - 200$$

$$\Rightarrow 630 = ? - 200$$

$$\Rightarrow 200 + 630 = ?$$

$$\therefore ? = 830$$

34. 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 following 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 the least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Since, we need to find out the approximate value, we can write these values to their nearest integers.

Given expression is

$$24.97\% \text{ of } 160.05 + 11.02\% \text{ of } 1099.97 = ?^2 - 3.99\% \text{ of } 200.02$$

$$\Rightarrow 25\% \text{ of } 160 + 11\% \text{ of } 1100 = ?^2 - 4\% \text{ of } 200$$

$$\Rightarrow 40 + 121 = ?^2 - 8$$

$$\Rightarrow 169 = ?^2$$

$$\therefore ? = 13$$

35. Answer: e

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 following 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 the least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Since we need to find out the approximate value, we can write these values to their nearest integers.

Given expression is

$$(67.98 + 32.034) \times (13.2 - 4.67) = ? + (10.98\% \text{ of } 99.06)$$

$$\Rightarrow (68 + 32) \times (13 - 5) = ? + (11\% \text{ of } 100)$$

$$\Rightarrow 100 \times 8 = ? + 11$$

$$\Rightarrow 800 - 11 = ?$$

$$\therefore ? = 789$$

36. Answer: c

Explanation:

Total number of watches sold by company 'S' in February = 500

Total number of watches sold by company 'T' in February = $1200 - 500 = 700$

Total number of watches sold by company 'S' in March = $(\frac{3}{5}) \times 500 = 300$

Total number of watches sold by company 'T' in April = $(\frac{6}{5}) \times 300 = 360$

Let the total number of watches sold by company 'S' in May = $4x$

Total number of watches sold by company 'S' in April = $75\% \times 4x = 3x$

The total number of watches sold by company 'S' in all four months = $3900 - 1700 = 2200$

$$\text{ATQ, } 500 + 300 + 3x + 4x = 2200$$

$$\Rightarrow 7x = 1400$$

$$\Rightarrow x = 200$$

Total number of watches sold by company 'S' in May = 800

Total number of watches sold by company 'S' in April = 600

Let the total number of watches sold by company 'T' in March = y

Total number of watches sold by company 'T' in May = $y + 340$

The total number of watches sold by company 'T' in all four months = 1700

$$\text{Therefore, } 700 + y + 360 + y + 340 = 1700$$

$$\Rightarrow 2y = 300$$

$$\Rightarrow y = 150$$

Total number of watches sold by company 'T' in March = 150

Total number of watches sold by company 'T' in May = 490

Putting all the values in a table we get

Month	Watches sold by company 'S'	Watches sold by company 'T'	Total Watches sold by company S + T
Feb	500	700	$500 + 700 = 1200$
March	300	150	$300 + 150 = 450$
April	600	360	$600 + 360 = 960$
May	800	490	$800 + 490 = 1290$
Total	2200	1700	3900

Total revenue generated by company 'S' by selling all the watches in all four months together = $2200 \times 175 = 385000$ Rs.

Hence, the correct answer is 385000 Rs.

37. Answer: c

Explanation:

Total number of watches sold by company 'S' in February = 500

Total number of watches sold by company 'T' in February = $1200 - 500 = 700$

Total number of watches sold by company 'S' in March = $(\frac{3}{5}) \times 500 = 300$

Total number of watches sold by company 'T' in April = $(\frac{6}{5}) \times 300 = 360$

Let the total number of watches sold by company 'S' in May = $4x$

Total number of watches sold by company 'S' in April = $75\% \times 4x = 3x$

The total number of watches sold by company 'S' in all four months = $3900 - 1700 = 2200$

ATQ, $500 + 300 + 3x + 4x = 2200$

$\Rightarrow 7x = 1400$

$\Rightarrow x = 200$

Total number of watches sold by company 'S' in May = 800

Total number of watches sold by company 'S' in April = 600

Let the total number of watches sold by company 'T' in March = y

Total number of watches sold by company 'T' in May = $y + 340$

The total number of watches sold by company 'T' in all four months = 1700

Therefore, $700 + y + 360 + y + 340 = 1700$

$\Rightarrow 2y = 300$

$\Rightarrow y = 150$

Total number of watches sold by company 'T' in March = 150

Total number of watches sold by company 'T' in May = 490

Putting all the values in a table we get

Month	Watches sold by company 'S'	Watches sold by company 'T'	Total Watches sold by company S + T
Feb	500	700	$500 + 700 = 1200$
March	300	150	$300 + 150 = 450$
April	600	360	$600 + 360 = 960$
May	800	490	$800 + 490 = 1290$
Total	2200	1700	3900

Required ratio = $800 : 700 = 8 : 7$

Hence, the correct answer is $8 : 7$.

38. Answer: a

Explanation:

Total number of watches sold by company 'S' in February = 500

Total number of watches sold by company 'T' in February = $1200 - 500 = 700$

Total number of watches sold by company 'S' in March = $(\frac{3}{5}) \times 500 = 300$

Total number of watches sold by company 'T' in April = $(\frac{6}{5}) \times 300 = 360$

Let the total number of watches sold by company 'S' in May = $4x$

Total number of watches sold by company 'S' in April = $75\% \times 4x = 3x$

The total number of watches sold by company 'S' in all four months = $3900 - 1700 = 2200$

ATQ, $500 + 300 + 3x + 4x = 2200$

$\Rightarrow 7x = 1400$

$\Rightarrow x = 200$

Total number of watches sold by company 'S' in May = 800

Total number of watches sold by company 'S' in April = 600

Let the total number of watches sold by company 'T' in March = y

Total number of watches sold by company 'T' in May = $y + 340$

The total number of watches sold by company 'T' in all four months = 1700

Therefore, $700 + y + 360 + y + 340 = 1700$

$\Rightarrow 2y = 300$

$\Rightarrow y = 150$

Total number of watches sold by company 'T' in March = 150

Total number of watches sold by company 'T' in May = 490

Putting all the values in a table we get

Month	Watches sold by company 'S'	Watches sold by company 'T'	Total Watches sold by company S + T
Feb	500	700	$500 + 700 = 1200$
March	300	150	$300 + 150 = 450$
April	600	360	$600 + 360 = 960$
May	800	490	$800 + 490 = 1290$
Total	2200	1700	3900

Total number of watches sold in April, May, and June by company 'T' = $390 \times 3 = 1170$

Number of watches sold in June by company 'T' = $1170 - (360 + 490) = 320$

Hence, the correct answer is 320.

39. Answer: b

Explanation:

Total number of watches sold by company 'S' in February = 500

Total number of watches sold by company 'T' in February = $1200 - 500 = 700$

Total number of watches sold by company 'S' in March = $(\frac{3}{5}) \times 500 = 300$

Total number of watches sold by company 'T' in April = $(\frac{6}{5}) \times 300 = 360$

Let the total number of watches sold by company 'S' in May = $4x$

Total number of watches sold by company 'S' in April = $75\% \times 4x = 3x$

The total number of watches sold by company 'S' in all four months = $3900 - 1700 = 2200$

ATQ, $500 + 300 + 3x + 4x = 2200$

$\Rightarrow 7x = 1400$

$\Rightarrow x = 200$

Total number of watches sold by company 'S' in May = 800

Total number of watches sold by company 'S' in April = 600

Let the total number of watches sold by company 'T' in March = y

Total number of watches sold by company 'T' in May = $y + 340$

The total number of watches sold by company 'T' in all four months = 1700

Therefore, $700 + y + 360 + y + 340 = 1700$

$\Rightarrow 2y = 300$

$\Rightarrow y = 150$

Total number of watches sold by company 'T' in March = 150

Total number of watches sold by company 'T' in May = 490

Putting all the values in a table we get

Month	Watches sold by company 'S'	Watches sold by company 'T'	Total Watches sold by company S + T
Feb	500	700	$500 + 700 = 1200$
March	300	150	$300 + 150 = 450$
April	600	360	$600 + 360 = 960$
May	800	490	$800 + 490 = 1290$
Total	2200	1700	3900

The average number of watches sold in March and April by company 'S' = $(300 + 600)/2 = 450$

Hence, the correct answer is 450.

40. Answer: d

Explanation:

Total number of watches sold by company 'S' in February = 500

Total number of watches sold by company 'T' in February = $1200 - 500 = 700$

Total number of watches sold by company 'S' in March = $(3/5) \times 500 = 300$

Total number of watches sold by company 'T' in April = $(6/5) \times 300 = 360$

Let the total number of watches sold by company 'S' in May = $4x$

Total number of watches sold by company 'S' in April = $75\% \times 4x = 3x$

The total number of watches sold by company 'S' in all four months = $3900 - 1700 = 2200$

ATQ, $500 + 300 + 3x + 4x = 2200$

$\Rightarrow 7x = 1400$

$\Rightarrow x = 200$

Total number of watches sold by company 'S' in May = 800

Total number of watches sold by company 'S' in April = 600

Let the total number of watches sold by company 'T' in March = y

Total number of watches sold by company 'T' in May = $y + 340$

The total number of watches sold by company 'T' in all four months = 1700

Therefore, $700 + y + 360 + y + 340 = 1700$

$\Rightarrow 2y = 300$

$\Rightarrow y = 150$

Total number of watches sold by company 'T' in March = 150

Total number of watches sold by company 'T' in May = 490

Putting all the values in a table we get

Month	Watches sold by company 'S'	Watches sold by company 'T'	Total Watches sold by company S + T
Feb	500	700	$500 + 700 = 1200$
March	300	150	$300 + 150 = 450$
April	600	360	$600 + 360 = 960$
May	800	490	$800 + 490 = 1290$
Total	2200	1700	3900

Total number of watches sold by both 'S' and 'T' together in April month = 960

Hence, the correct answer is 960.

41. Answer: b

Explanation:

Given:

Area of Circle: Area of Square = 11 : 14

Area of Rectangle = 147cm²

The length of a rectangle = Side of the square

The ratio of the breadth and length of a rectangular = 3 : 4

Concept Used:

Area of Circle = πR^2

Area of Square = A^2

Area of Rectangle = breadth $\times$ length

Calculation:

Let the radius of the circle and side of the square are R and A respectively.

According to question

$$\Rightarrow \pi R^2 : A^2 = 11 : 14$$

$$\Rightarrow 22R^2 : 7A^2 = 11 : 14$$

$$\Rightarrow R^2 : A^2 = 1 : 4$$

$$\Rightarrow R : A = 1 : 2$$

$$\Rightarrow R = A/2 \text{ cm}$$

Let, breadth and length of a rectangle by '3x' and '4x' respectively.

$$\text{So, } 3x \times 4x = 147$$

$$\Rightarrow 12x^2 = 147$$

$$\Rightarrow x^2 = 147/12$$

$$\Rightarrow x^2 = 49/4$$

$$\Rightarrow x = 3.5 \text{ cm}$$

Hence, length of rectangle (A) = $4x$ = side of square

$$\Rightarrow A = 14 \text{ cm}$$

$$\text{So, } R = 14/2$$

$$\Rightarrow R = 7 \text{ cm}$$

$\therefore$ The Radius of a Circle is 7 cm.

42. Answer: b

Explanation:

GIVEN :

Speed of train = 60 km/hr

FORMULA USED :

Speed = Distance/Time

CALCULATION:

Let the distance be d

If the speed is 20 kmph less then it would have taken 2 hours more

Now,

$$\Rightarrow (d/40) - (d/60) = 2$$

$$\Rightarrow (3d - 2d)/120 = 2$$

$$\Rightarrow d/120 = 2$$

$$\Rightarrow d = 240 \text{ km}$$

$\therefore$ distance travelled by train = 240 km

43. Answer: a

Explanation:

Given:

A and B together finish work = 30 days

B left the work = 20 days after working together

Remaining work finished by A = 15 days

Formula used:

Efficiency = Total work/Time

Calculation:

Let the total work done by A and B be 30 units

According to the question

Total work done by A and B in 20 days = 20 units

Remaining work = $(30 - 20)$ units = 10 units

Since, B left after 20 days and remaining work completed by A alone in 15 days

Efficiency of A = $10/15 = (2/3)$ units per day

Time taken by A to finish job alone = $[30/(2/3)]$

$\Rightarrow (30 \times 3)/2$

$\Rightarrow 45$ days

$\therefore$ A can alone finish the job in 45 days.

44. Answer: d

Explanation:

Given:

Initial concentration = 60 litre

Final concentration = 48.6 litre

Quantity removed in each cycle = x litre

The process is repeated two times means: $n = 2$

Formula:

$$FC = IC \times (1 - \text{Quantity removed in each cycle} / \text{total IC})^n$$

Here,

FC = final concentration

IC = Initial concentration

n = The process repeated how many times

Calculation:

We know that –

$$FC = IC \times (1 - \text{Quantity removed in each cycle} / \text{total IC})^n \dots\dots(1)$$

Put all the given values in equation (1) then we get

$$48.6 = 60 \times (1 - x/60)^2$$

$$\Rightarrow 48.6/60 = (1 - x/60)^2$$

$$\Rightarrow (486/600) = (1 - x/60)^2$$

$$\Rightarrow (81/100)^2 = (1 - x/60)^2$$

$$\Rightarrow (9/10)^2 = (1 - x/60)^2$$

$$\Rightarrow 9/10 = 1 - x/60$$

$$\Rightarrow x/60 = 1 - 9/10$$

$$\Rightarrow x/60 = 1/10$$

$$\Rightarrow 10x = 60$$

$$\Rightarrow x = 60/10$$

$$\Rightarrow x = 6$$

$\therefore$ The Value of $x = 6$ litres

45. Answer: d

Explanation:

Given:

Ratio of ages of Nitin and Mayuri = 5 : 6

Ratio between one-third age of Nitin and half of Mayuri's age = 5 : 9

Calculations:

Let the school ages of Nitin and Mayuri be $5x$ and $6x$ respectively.

Hence, the ratio between them according to the second given condition is:

$$\Rightarrow (5x/3)/(6x/2) = 5/9$$

$$\Rightarrow 10x/18x = 5/9$$

$$\Rightarrow 15 = 15$$

$\therefore$ Mayuri's age cannot be determined.

★ Key Points

We need to have the relation between the ages of the persons after or before a certain number of years. If that relation is not provided, the relation cannot be established.

46. Answer: b

Explanation:

Let the number of 'international' videos downloaded from each website 'A', 'B', and 'E' = x

Total number of 'regional' videos download from websites 'A', 'B', and 'E' together = $8 + 17 + 10 = 35$

Total number of 'international' videos download from websites 'A', 'B', and 'E' together = $3x$

Total number of videos 'downloaded' from websites 'A', 'B', and 'E' together = 335

Therefore, $35 + 3x = 335$

$\Rightarrow 3x = 300$

$\Rightarrow x = 100$

The average number of 'international' videos downloaded from each of the given websites = $x = 100$

Hence, the correct answer is 100.

47. Answer: e

Explanation:

Number of 'regional' videos downloaded from website 'F' = $(17/16) \times 16 = 17$

Number of 'international' videos downloaded from website 'F' = $17 + 326 = 343$

Let the total number of 'viewed' videos on website 'F' = $100x$

Total number of 'videos' downloaded from the website 'F' = $30\% \times 100x = 30x$

ATQ, $30x = 17 + 343$

$\Rightarrow 100x = 1200$

The total number of 'viewed' videos on website 'F' = 1200

Total data consumed by person 'X' if he views all the 'videos' of website 'F' = $1200 \times 250 = 300000$

MB = 300 GB

Hence, the correct answer is 300 GB.

48. Answer: b

Explanation:

Let the total number of 'viewed' videos on website 'C' = $100x$

Total number of 'downloaded' videos from website 'C' = $72\% \times 100x = 72x$

Difference between the total number of 'viewed' videos on website 'C' and the number of 'international' videos downloaded from the same website is 187.

Therefore, the number of 'international' videos downloaded from website 'C' = $100x - 187$

Number of 'regional' videos downloaded from website 'C' = $72x - (100x - 187) = 187 - 28x$

ATQ, $187 - 28x = 19$

$\Rightarrow x = 6$

Total number of 'downloaded' videos from website 'C' = $72x = 432$

Number of 'videos' from website 'C' which were stored in the hard disk = $432 \times 75\% = 324$

Hence, the correct answer is 324.

49. Answer: e

Explanation:

Total number of 'international' videos downloaded from website 'B' = 153

Total number of 'videos' downloaded from website 'B' = $153 + 17 = 170$

Let the total number of 'viewed' videos on website 'B' = $100x$

ATQ, $40x = 170$

$\Rightarrow 100x = 425$

Total number of 'viewed' videos on website 'B' = 425

Similarly, total number of 'videos' downloaded from website 'D' = $164 + 16 = 180$

Let the total number of 'viewed' videos on website 'D' = $100y$

ATQ, $60y = 180$

$\Rightarrow 100y = 300$

Total number of 'viewed' videos on website 'D' = 300

Total number of 'viewed' videos on website 'B' and 'D' together = $425 + 300 = 725$

Total number of 'regional' videos downloaded from websites 'A', 'B', 'C' and 'D' together = $8 + 17 + 19 + 16 = 60$

Required ratio = $725 : 60 = 145 : 12$

Hence, the correct answer is 145 : 12.

50. Answer: d

Explanation:

Let the total number of 'viewed' videos on website 'E' = $100x$

Total number of 'viewed' videos on website 'A' = $250\% \times 100x = 250x$

Total number of downloaded videos from website 'E' = $50\% \times 100x = 50x$

Total number of downloaded videos from website 'A' = $250x \times 30\% = 75x$

Total number of videos downloaded from websites 'A' and 'E' together = 250

ATQ, $50x + 75x = 250$

$\Rightarrow x = 2$

Total number of 'international' videos downloaded from website 'E' = $50x - 10 = 90$

Total number of 'international' videos downloaded from website 'A' = $75x - 8 = 142$

Total number of 'international' videos downloaded from websites 'A' and 'E' together = $90 + 142 = 232$

Hence, the correct answer is 232.

51. Answer: d

Explanation:

Considering the given series

12, 13, 28, 88, 352, 1765

The logic of the given series can be explained as

$$12 \times 1 + 1 = 13$$

$$13 \times 2 + 2 = 28$$

$$28 \times 3 + 3 = \mathbf{87}$$

$$87 \times 4 + 4 = 352$$

$$340 \times 5 + 5 = 1765$$

$\therefore$ Wrong term in given number series is 88.

52. Answer: d

Explanation:

$$16 \times 1 + 1^2 = 17$$

$$17 \times 2 + 2^2 = 38$$

$$38 \times 3 + 3^2 = 123$$

$$123 \times 4 + 4^2 = \mathbf{508}$$

$$508 \times 5 + 5^2 = 2565$$

$\therefore$ Wrong term in given number series is 510.

53. Answer: d

Explanation:

Calculation:

The given number series follows this pattern:

$$2 \times 1 = 2$$

$$2 \times 2 = 4$$

$$4 \times 3 = 12$$

$$12 \times 4 = 48$$

$$48 \times 5 = 240$$

$$240 \times 6 = 1440$$

$\therefore$ The wrong number in the given series is 200.

54. Answer: b

Explanation:

The series follows the following pattern:

$$11$$

$$11 + 14 = 25$$

$$25 + 28 = 53 \neq 63$$

$$53 + 56 = 109$$

$$109 + 112 = 221$$

$$221 + 224 = 445$$

$\therefore$ The wrong number is 63

★ Alternate Method

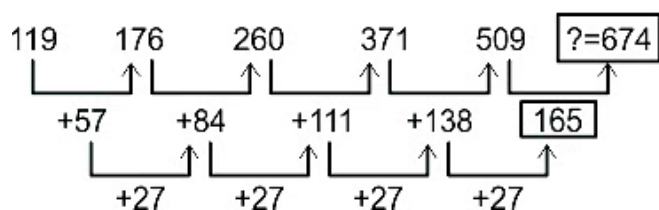
11, 25, 53, 109, 221, 445

14, 28, 56, 112, 224

$\times 2 \quad \times 2 \quad \times 2 \quad \times 2$

55. Answer: a

Explanation:



∴ The wrong number is 675

56. Answer: b

Explanation:

Given:

Rate of interest for first year = 7%

Rate of interest increases by 2% per year

Total interest after 3 years = Rs. 10,260

Formula used:

$$S.I = \frac{PRT}{100}$$

Where, P = Principal

R = Rate of interest

T = Time

Calculation:

Let the amount given by Aditya to Sabir be Rs. x

Rate of interest for 1st year = 7%

So, interest for 1st year = $\frac{PRT}{100}$

$$\Rightarrow x \times 7 \times 1/100 = 7x/100$$

Now, interest for 2nd year = 7 + 2 = 9%

So, interest for 2nd year = $x \times 9 \times 1/100 = 9x/100$

And, interest for 3rd year = $11x/100$

Now, Total interest after 3 years = $7x/100 + 9x/100 + 11x/100$

$$\Rightarrow 27x/100$$

And, total interest after 3 years given = Rs. 10,260

$$\text{So, } 27x/100 = \text{Rs. } 10,260$$

$$\Rightarrow x/100 = \text{Rs. } 380$$

$$\Rightarrow x = \text{Rs. } 38,000$$

$\therefore$ The amount given by Aditya to Sabir is Rs. 38,000

★ Alternate Method

Let amount given by Aditya to Sabir is 100%

First year interest = 7%

Second year interest = 9%

Third year interest = 11%

So, Total interest after 3 years = $(7 + 9 + 11)\%$

$$\Rightarrow 27\%$$

And, interest given after 3 years = Rs. 10,260

$$\text{So, } 27\% = \text{Rs. } 10,260$$

$$\Rightarrow 100\% = \text{Rs. } (10260/27\%) \times 100\%$$

$$\Rightarrow \text{Rs. } 38,000$$

$\therefore$ The amount given by Aditya to Sabir is Rs. 38,000

57. Answer: a

Explanation:

GIVEN:

A man who can swim 48 m/min in still water swims 200 m against the current and 200 m with the current.

FORMULA USED:

Downstream speed = [Speed of person + Speed of current]

Upstream speed = [Speed of person – Speed of current]

CALCULATION:

Suppose the speed of current is 'x' m/min.

According to the question:

Downstream speed = $[48 + x]$ m/min

Upstream speed = $[48 - x]$ m/min

So,

$$200/(48 - x) - 200/(48 + x) = 10$$

Solving the equation, we get

$$\Rightarrow x = 32$$

Hence, speed of current is 32 m/min.

58. Answer: c**Explanation:**

Given:

Investment by Chotu = Rs. 50000

Investment by Bittu = Rs. 80000

Total profit = Rs. 40000

Chittu's share in the profit = Rs. 15000

Chittu joined after 4 months starting of the business

Formula Used:

Profit = Investment $\times$ Time

Calculation:

Let Chittu's investment in the business be Rs. $1000x$

Profit ratio of Chotu, Bittu and Chittu

$$\Rightarrow (50000 \times 12) : (80000 \times 12) : 1000x \times (12 - 4)\}$$

$$\Rightarrow 75 : 120 : x$$

$$\text{Total profit} = 75 + 120 + x$$

$$\Rightarrow 195 + x$$

$$\text{Chittu's share in profit} = x$$

According to the question,

$$(195 + x)/x = 40000/15000$$

$$\Rightarrow (195 + x)/x = 8/3$$

$$\Rightarrow 3(195 + x) = 8x$$

$$\Rightarrow 585 + 3x = 8x$$

$$\Rightarrow 5x = 585$$

$$\Rightarrow x = 117$$

$$\text{Investment by Chittu} = 1000 \times 117$$

$$\Rightarrow \text{Rs. } 117000$$

$\therefore$ Chittu's investment in the business will be Rs. 117000.

59. Answer: d

Explanation:

Given:

Abhi bought a bike for Rs. 13200 and sells it at a loss of 18%.

The selling price of the bike is equal to the cost price of his mobile.

Formula used:

Profit or Gain = Selling price – Cost Price

Loss = Cost Price – Selling Price

Profit percentage = $(\text{Profit} / \text{Cost Price}) \times 100$

Loss percentage = $(\text{Loss} / \text{Cost price}) \times 100$

Calculation:

CP = Rs. 13200

SP = Rs. (0.82×13200)

⇒ Rs. 10824

Cp of mobile = Rs. 10824

Profit = 50%

SP of mobile = Rs. (1.5×10824)

⇒ Rs. 16236

∴ SP of mobile is Rs. 16236

60. Answer: c

Explanation:

Given:

The average salary of the staff of a tech company (a) = Rs. 2000

The average salary of the tech lead (b) = Rs. 5500

The average salary of the freshers (c) = Rs. 1200

No. of Tech leads (n) = 16

Formula Used:

Number of freshers = $[n \times (a - b)] / (c - a)$

Calculation:

∴ according to the formula:

$$\text{Number of freshers} = [n \times (a - b)] / (c - a)$$

$$\Rightarrow [16 \times (2000 - 5500)] / (1200 - 2000)$$

$$\Rightarrow (16 \times -3500) / -800$$

$$\Rightarrow 2 \times 35$$

$$\Rightarrow 70$$

∴ The number of freshers in the company is 70.

★ Alternate Method

Let the number of freshers in the tech company be x.

∴ according to the question:

$$\Rightarrow 1200x + (5500 \times 16) = 2000 (16 + x)$$

$$\Rightarrow 12x + (55 \times 16) = 20 (16 + x)$$

$$\Rightarrow 3x + (55 \times 4) = 5 (16 + x)$$

$$\Rightarrow 3x + 220 = 80 + 5x$$

$$\Rightarrow 5x - 3x = 220 - 80$$

$$\Rightarrow 2x = 140$$

$$\Rightarrow x = 70$$

∴ The number of freshers in the company is 70.

61. Answer: b

Explanation:

Total number of applicants who passed their driving license test for 'Two-wheelers' = $63\% \times (360 + 240) = 378$

Total number of applicants who passed their driving license test for 'LMV' = $54\% \times (245 + 205) = 243$

Total number of applicants who passed their driving license test for 'HMV' = $37.5\% \times (216 + 168) = 144$

Total number of applicants who passed all three driving license tests = $378 + 243 + 144 = 765$

Let the number of 'male' applicants who passed all three driving license tests = M

ATQ, $M + F = 765$...(i)

And, $M - F = 135$...(ii)

Adding (i) and (ii)

$$\Rightarrow 2M = 765 + 135$$

$$\Rightarrow M = 450$$

Number of 'male' applicants who passed all three driving license tests = 450

Number of 'male' applicants who passed the 'Two wheelers' and 'HMV' driving license tests = $450 - 176 = 274$

Required average = $274/2 = 137$

Hence, the correct answer is 137.

62. Answer: e

Explanation:

Total number of applicants who passed their driving license test for 'HMV' = $37.5\% \times (216 + 168) = 144$

Number of applicants who failed in 'LMV' driving license test = $(245 + 205) \times 46\% = 207$

Required ratio = $144 : 207 = 16 : 23$

Hence, the correct answer is 16 : 23.

63. Answer: c

Explanation:

Number of applicants who failed in 'LMV' driving license test = $(245 + 205) \times 46\% = 207$

Number of male applicants who were rejected for 'LMV' driving license test = $(5/9) \times 207 = 115$

number of 'male' applicants who were rejected in 'LMV' driving test due to failure in 'Written' round = $115 \times 40\% = 46$

Hence, the correct answer is 46.

64. Answer: c

Explanation:

Number of applied who passed their 'Two-wheelers' driving test = $63\% \times (360 + 240) = 378$

Number of female applicants who passed in their 'Two wheelers' driving test = $(5/14) \times 378 = 135$

Number of female applicants who failed in their 'Two wheelers' driving test = $240 - 135 = 105$

Required% = $(105/240) \times 100 = 43.75\%$

Hence, the correct answer is 43.75%.

65. Answer: d

Explanation:

Total number of applicants who failed their driving license test for 'HMV' = $62.5\% \times (216 + 168) = 240$

Number of applicants for applied again for 'HMV' driving license test = $80\% \times 240 = 192$

Number of female applicants who applied again for 'HMV' driving license test = $(5/12) \times 192 = 80$

Number of 'female' applicants who failed in their second license attempt = $80 \times 65\% = 52$

Hence, the correct answer is 52.

66. Answer: e

Explanation:

Seven person Y, W, U, V, Z, X and T.

Some of them are facing inside and some of them are facing outside the direction of the circle.

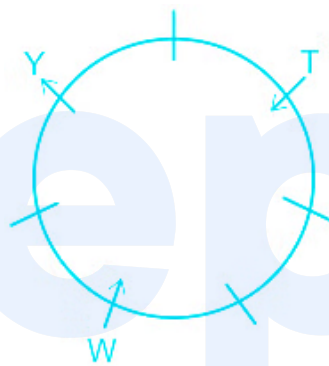
1- Y is sitting second to the left of W.

2- T is sitting fifth to the left of Y.

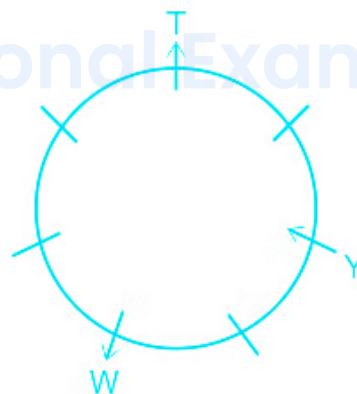
3- T is facing in opposite direction as Y.

4- One person sits between Y and T.

Case-1



Case-2

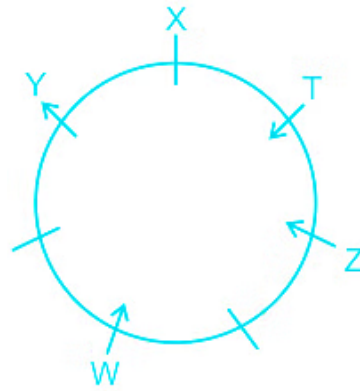


5- Z is sitting immediate left of T.

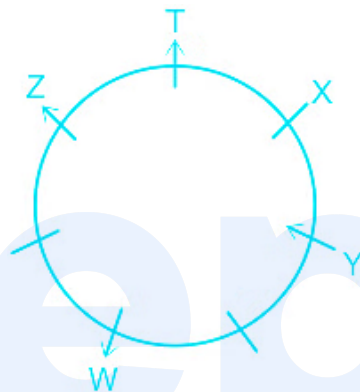
6- Z is facing is same direction as W.

7- X is sitting Second to the right of Z.

Case-1



Case-2

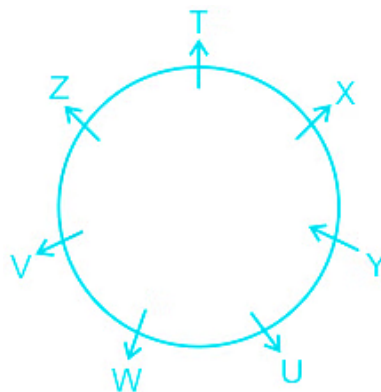


8- X faced away from the center.

9- Both the neighbour of Y face in opposite direction from Y. So, case-1 gets eliminated.

10- One person sits between U and V from left of V.

So, Final arrangement;



All are facing the outside the direction of the circle, except Y.

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

67. Answer: a

Explanation:

Seven person Y, W, U, V, Z, X and T.

Some of them are facing inside and some of them are facing outside the direction of the circle.

1- Y is sitting second to the left of W.

2- T is sitting fifth to the left of Y.

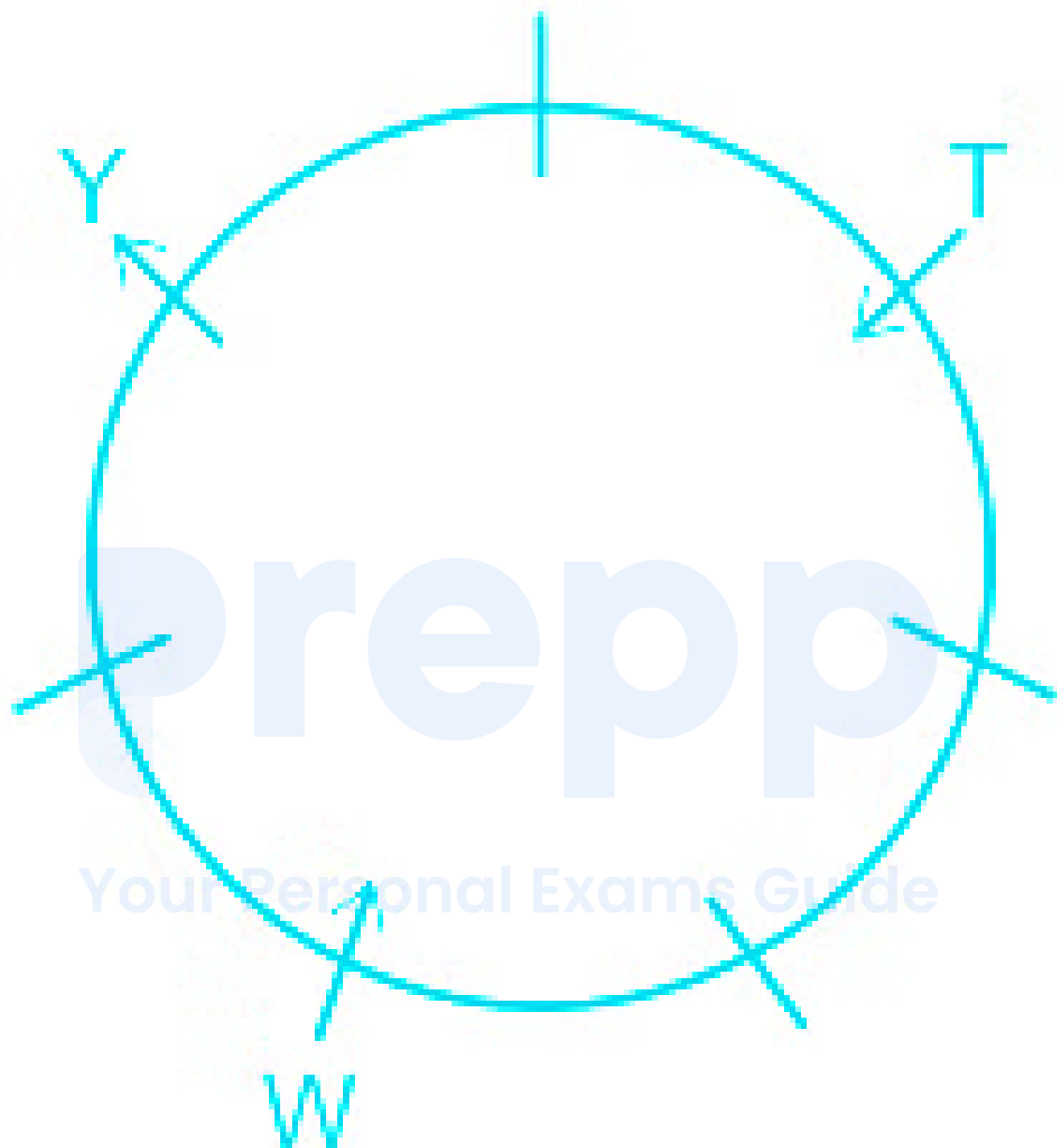
3- T is facing in opposite direction as Y.

4- One person sits between Y and T.

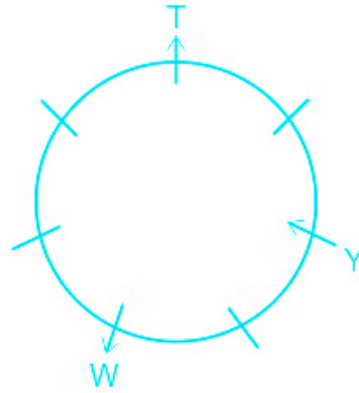
Case-1

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Case-2

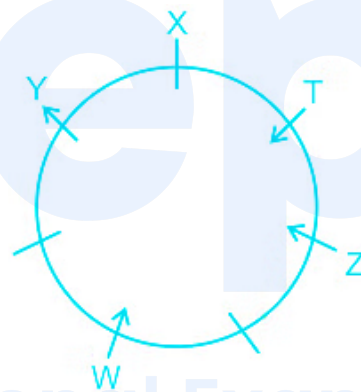


5- Z is sitting immediate left of T.

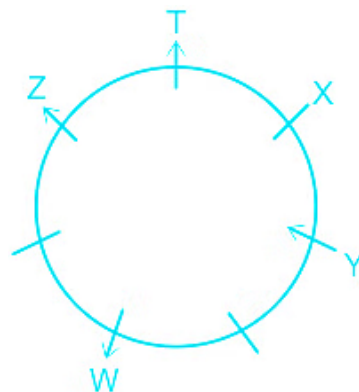
6- Z is facing is same direction as W.

7- X is sitting Second to the right of Z.

Case-1



Case-2

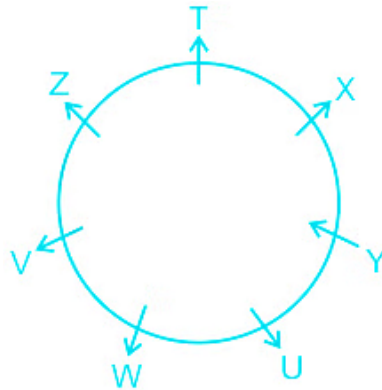


8- X faced away from the center.

9- Both the neighbour of Y face in opposite direction from Y. So, case-1 gets eliminated.

10- One person sits between U and V from left of V.

So, Final arrangement;



Hence, T is the third to the right of W is the correct answer.

68. Answer: b

Explanation:

Seven person Y, W, U, V, Z, X and T.

Some of them are facing inside and some of them are facing outside the direction of the circle.

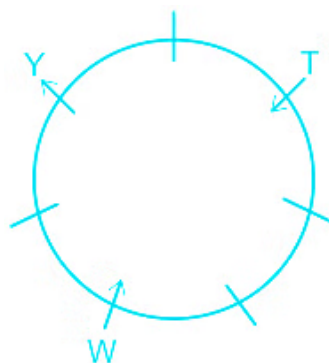
1- Y is sitting second to the left of W.

2- T is sitting fifth to the left of Y.

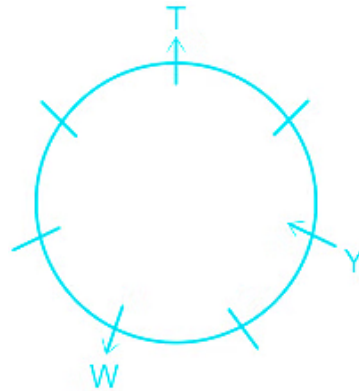
3- T is facing in opposite direction as Y.

4- One person sits between Y and T.

Case-1



Case-2

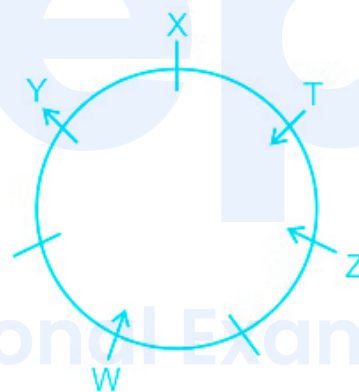


5- Z is sitting immediate left of T.

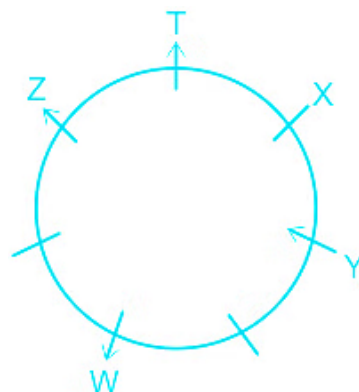
6- Z is facing is same direction as W.

7- X is sitting Second to the right of Z.

Case-1



Case-2

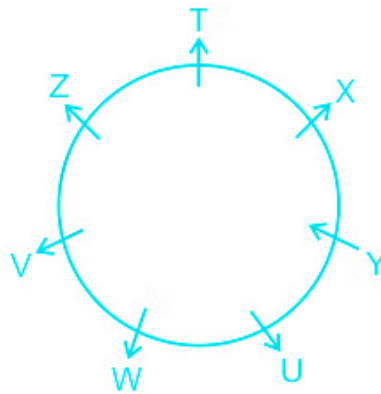


8- X faced away from the center.

9- Both the neighbour of Y face in opposite direction from Y. So, case-1 gets eliminated.

10- One person sits between U and V from left of V.

So, Final arrangement;



Hence, four persons sit between U and V when counted from the left of U.

69. Answer: e

Explanation:

Seven person Y, W, U, V, Z, X and T.

Some of them are facing inside and some of them are facing outside the direction of the circle.

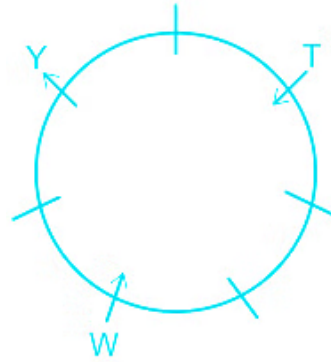
1- Y is sitting second to the left of W.

2- T is sitting fifth to the left of Y.

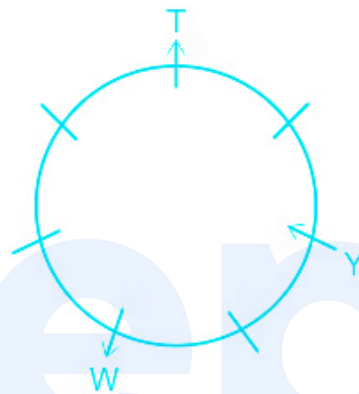
3- T is facing in opposite direction as Y.

4- One person sits between Y and T.

Case-1



Case-2

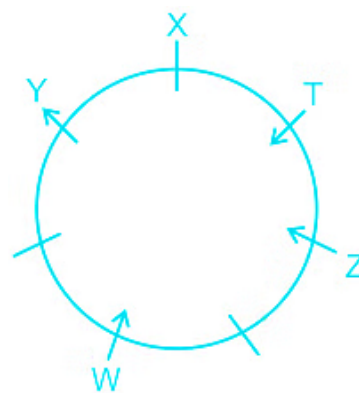


5- Z is sitting immediate left of T.

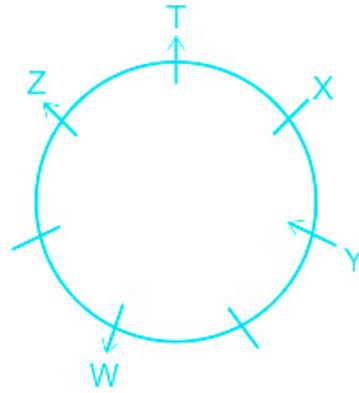
6- Z is facing is same direction as W.

7- X is sitting Second to the right of Z.

Case-1



Case-2

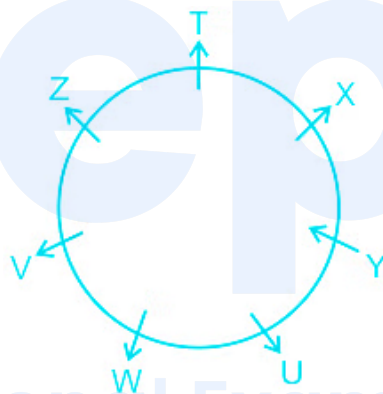


8- X faced away from the center.

9- Both the neighbour of Y face in opposite direction from Y. So, case-1 gets eliminated.

10- One person sits between U and V from left of V.

So, Final arrangement;



Hence, U is sitting immediate left of Y.

70. Answer: a

Explanation:

Seven person Y, W, U, V, Z, X and T.

Some of them are facing inside and some of them are facing outside the direction of the circle.

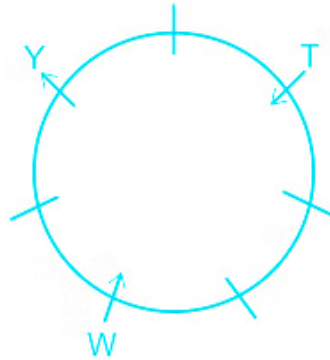
1- Y is sitting second to the left of W.

2- T is sitting fifth to the left of Y.

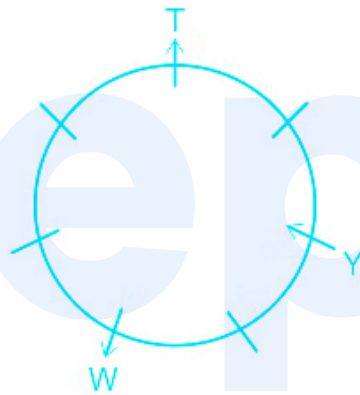
3- T is facing in opposite direction as Y.

4- One person sits between Y and T.

Case-1



Case-2

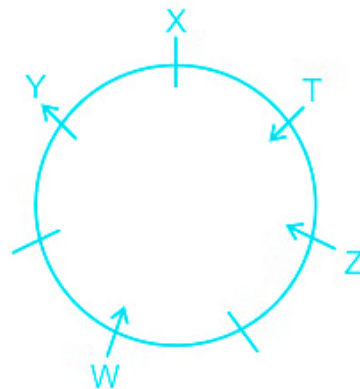


5- Z is sitting immediate left of T.

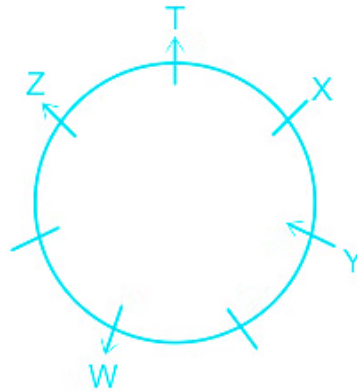
6- Z is facing is same direction as W.

7- X is sitting Second to the right of Z.

Case-1



Case-2

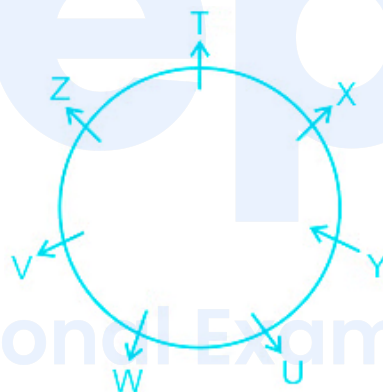


8- X faced away from the center.

9- Both the neighbour of Y face in opposite direction from Y. So, case-1 gets eliminated.

10- One person sits between U and V from left of V.

So, Final arrangement;



hence third to the right is correct answer

71. Answer: b

Explanation:

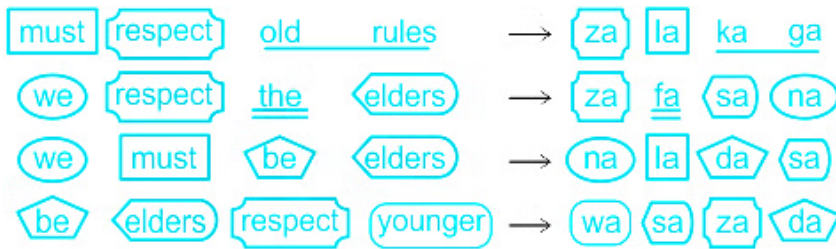
The given information is:

'must respect old rules' is code for 'za la ka ga' ,

'we respect the elders' is code for 'za fa sa na' ,

'we must be elders' is code for ' na la da sa' ,

'be elders respect younger' is code for 'wa sa za da'.



The code for 'must' is 'la'.

The code for 'respect' is 'za'.

The code for 'we' is 'na'.

The code for 'elders' is 'sa'.

The code for 'the' is 'fa'.

The code for 'be' is 'da'.

The code for 'younger' is 'wa'.

The code for 'old rules' is 'ka ga'.

Hence, **Code for 'respect' is 'za'.**

72. Answer: c

Explanation:

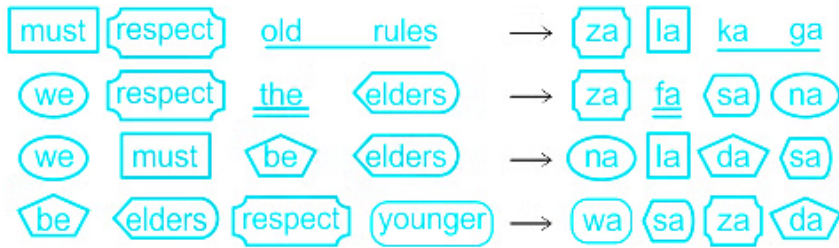
The given information is:

'must respect old rules' is code for 'za la ka ga' ,

'we respect the elders' is code for 'za fa sa na' ,

'we must be elders' is code for 'na la da sa' ,

'be elders respect younger' is code for 'wa sa za da' .



The code for 'must' is 'la'.

The code for 'respect' is 'za'.

The code for 'we' is 'na'.

The code for 'elders' is 'sa'.

The code for 'the' is 'fa'.

The code for 'be' is 'da'.

The code for 'younger' is 'wa'.

The code for 'old rules' is 'ka ga'.

Given 'respect must old' is 'za la ga' therefore code for "old" is "ga"

Hence, **Code for 'rules' is 'ka'.**

73. Answer: e

Explanation:

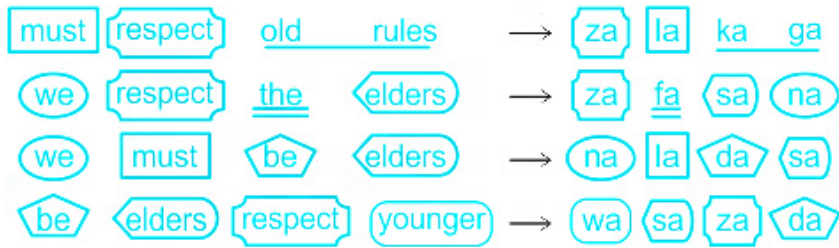
The given information is:

'must respect old rules' is code for 'za la ka ga' ,

'we respect the elders' is code for 'za fa sa na' ,

'we must be elders' is code for 'na la da sa' ,

'be elders respect younger' is code for 'wa sa za da' .



The code for 'must' is 'la'.

The code for 'respect' is 'za'.

The code for 'we' is 'na'.

The code for 'elders' is 'sa'.

The code for 'the' is 'fa'.

The code for 'be' is 'da'.

The code for 'younger' is 'wa'.

The code for 'old rules' is 'ka ga'.

Hence, 'ga' code represents either 'old' or 'rules'.

74. Answer: c

Explanation:

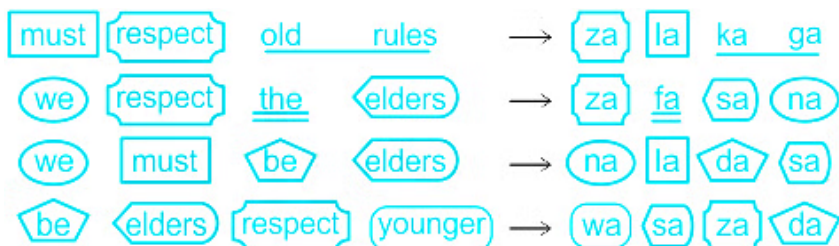
The given information is:

'must respect old rules' is code for 'za la ka ga' ,

'we respect the elders' is code for 'za fa sa na' ,

'we must be elders' is code for 'na la da sa' ,

'be elders respect younger' is code for 'wa sa za da' .



The code for 'must' is 'la'.

The code for 'respect' is 'za'.

The code for 'we' is 'na'.

The code for 'elders' is 'sa'.

The code for 'the' is 'fa'.

The code for 'be' is 'da'.

The code for 'younger' is 'wa'.

The code for 'old rules' is 'ka ga'.

Hence, **Code for "la na za sa"**.

75. Answer: a

Explanation:

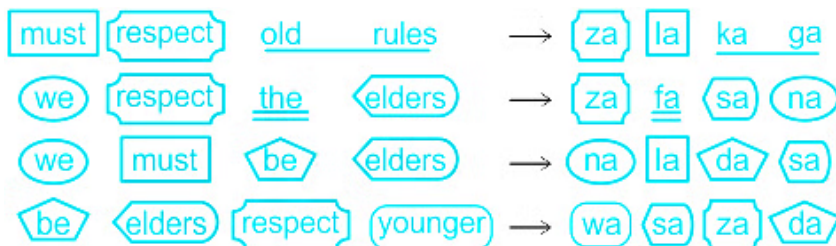
The given information is:

'must respect old rules' is code for 'za la ka ga' ,

'we respect the elders' is code for 'za fa sa na' ,

'we must be elders' is code for 'na la da sa' ,

'be elders respect younger' is code for 'wa sa za da' .



The code for 'must' is 'la'.

The code for 'respect' is 'za'.

The code for 'we' is 'na'.

The code for 'elders' is 'sa'.

The code for 'the' is 'fa'.

The code for 'be' is 'da'.

The code for 'younger' is 'wa'.

The code for 'old rules' is 'ka ga'.

Hence, 'da' code represents word 'be'.

76. Answer: e

Explanation:

Five People: A, B, C, D and E.

Matches: 52, 39, 16, 75, 46.

Months: January, April, May, June, and August

1- The one who played 46 matches played in the month of having 30 days.

2- Only one person played between the one who played 46 and D.

3- Only one person played between C and D.

	Case-1		Case-2	
Month	Person	Matches	Person	Matches
January(31)				
April(30)	C	46	D	
May(31)				
June(30)	D		C	46
August(31)				

4- E played the matches just before C.

5- The one who played 75 matches played at last.

6- The one who played 16 matches played just before the one who played 46 matches.

7- A played before B.

	Case-1		Case-2	
Month	Person	Matches	Person	Matches
January(31)	E	16	A	
April(30)	C	46	D	
May(31)	A		E	16
June(30)	D		C	46
August(31)	B	75	B	75

8- More than 2 People played between E and B . So, case-2 gets eliminated.

So, Final arrangement,

Month	Person	Matches
January(31)	E	16
April(30)	C	46
May(31)	A	52/39
June(30)	D	52/39
August(31)	B	75

Hence, **Either A and D played 52 matches.**

77. **Answer: d**

Explanation:

Five People: A, B, C, D and E.

Matches: 52, 39, 16, 75, 46

Months: January, April, May, June, and August

1- The one who played 46 matches played in the month of having 30 days.

2- Only one person played between the one who played 46 and D.

3- Only one person played between C and D.

	Case-1		Case-2	
Month	Person	Matches	Person	Matches
January(31)				
April(30)	C	46	D	
May(31)				
June(30)	D		C	46
August(31)				

4- E played the matches just before C.

5- The one who played 75 matches played at last.

6- The one who played 16 matches played just before the one who played 46 matches.

7- A played before B.

	Case-1		Case-2	
Month	Person	Matches	Person	Matches
January(31)	E	16	A	
April(30)	C	46	D	
May(31)	A		E	16
June(30)	D		C	46
August(31)	B	75	B	75

8- more than 2 People played between E and B . So, case-2 gets eliminated.

So, Final arrangement,

Month	Person	Matches
January(31)	E	16
April(30)	C	46
May(31)	A	52/39
June(30)	D	52/39
August(31)	B	75

Hence, E played the least number of matches.

78. Answer: c

Explanation:

Five People: A, B, C, D and E.

Matches: 52, 39, 16, 75, 46

Months: January, April, May, June, and August

1- The one who played 46 matches played in the month of having 30 days.

2- Only one person played between the one who played 46 and D.

3- Only one person played between C and D.

	Case-1		Case-2	
Month	Person	Matches	Person	Matches
January(31)				
April(30)	C	46	D	
May(31)				
June(30)	D		C	46
August(31)				

4- E played the matches just before C.

5- The one who played 75 matches played at last.

6- The one who played 16 matches played just before the one who played 46 matches.

7- A played before B.

	Case-1		Case-2	
Month	Person	Matches	Person	Matches
January(31)	E	16	A	
April(30)	C	46	D	
May(31)	A		E	16
June(30)	D		C	46
August(31)	B	75	B	75

8- more than 2 People played between E and B . So, case-2 gets eliminated.

So, Final arrangement,

Month	Person	Matches
January(31)	E	16
April(30)	C	46
May(31)	A	52/39
June(30)	D	52/39
August(31)	B	75

Hence, B played 75 matches.

79. Answer: a

Explanation:

Five People: A, B, C, D and E.

Matches: 52, 39, 16, 75, 46

Months: January, April, May, June, and August

1- The one who played 46 matches played in the month of having 30 days.

2- Only one person played between the one who played 46 and D.

3- Only one person played between C and D.

	Case-1		Case-2	
Month	Person	Matches	Person	Matches
January(31)				
April(30)	C	46	D	
May(31)				
June(30)	D		C	46
August(31)				

4- E played the matches just before C.

5- The one who played 75 matches played at last.

6- The one who played 16 matches played just before the one who played 46 matches.

7- A played before B.

	Case-1		Case-2	
Month	Person	Matches	Person	Matches
January(31)	E	16	A	
April(30)	C	46	D	
May(31)	A		E	16
June(30)	D		C	46
August(31)	B	75	B	75

8- more than 2 People played between E and B . So, case-2 gets eliminated.

So, Final arrangement,

Month	Person	Matches
January(31)	E	16
April(30)	C	46
May(31)	A	52/39
June(30)	D	52/39
August(31)	B	75

Hence, D played the matches between A and B.

80. Answer: a

Explanation:

Five People: A, B, C, D and E.

Matches: 52, 39, 16, 75, 46

Months: January, April, May, June, and August

1- The one who played 46 matches played in the month of having 30 days.

2- Only one person played between the one who played 46 and D.

3- Only one person played between C and D.

	Case-1		Case-2	
Month	Person	Matches	Person	Matches
January(31)				
April(30)	C	46	D	
May(31)				
June(30)	D		C	46
August(31)				

4- E played the matches just before C.

5- The one who played 75 matches played at last.

6- The one who played 16 matches played just before the one who played 46 matches.

7- A played before B.

	Case-1		Case-2	
Month	Person	Matches	Person	Matches
January(31)	E	16	A	
April(30)	C	46	D	
May(31)	A		E	16
June(30)	D		C	46
August(31)	B	75	B	75

8- more than 2 People played between E and B . So, case-2 gets eliminated.

So, Final arrangement,

Month	Person	Matches
January(31)	E	16
April(30)	C	46
May(31)	A	52/39
June(30)	D	52/39
August(31)	B	75

If A played 52 matches then D should play 39 matches

therefore the **difference between D and E is $39-16=23$.**

Hence, **23 is the correct answer.**

81. Answer: e

Explanation:

Given word	MONSTER
Chosen letters	N, T, E, R
Only possible words	RENT, TERN

RENT – A tenant's regular payment to a landlord for the use of property or land.

TERN– A seabird related to the gulls, typically smaller and more slender, with long pointed wings and a forked tail.

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

82. Answer: c

Explanation:

Seven employees: K, L, M, N, O, and P.

Designations: General Manager, Deputy General Manager, Assistant General Manager, Manager, Assistant Manager, Probationary Officer, and Clerk.

1) Four designations are there in between K's and L's designation. K is a senior to L.

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Designations	Persons	Persons
	Case – 1	Case – 2
General Manager	K	
Deputy General Manager		K
Assistant General manager		
manager		
Assistant manager		
Probationary Officer	L	
clerk		L

2) O is a Clerk or Probationary Officer.

3) There is one designation between O and P

Designations	Persons	Persons
	Case – 1	Case – 2
General Manager	K	
Deputy General Manager		K
Assistant General manager		
manager		P
Assistant manager	P	
Probationary Officer	L	O
clerk	O	L

- 4) P is senior to O and junior to Q.
- 5) N is junior to M, who is senior to Q. Therefore, case 2 will be ruled out.
- 6) N is not Assistant General Manager.

Designations	Persons
	Case – 1
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant manager	P
Probationary Officer	L
clerk	O

Hence, the final arrangement will be,

Designations	Persons
	Case – 1
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant Manager	P
Probationary Officer	L
clerk	O

Hence, Q is working as an assistant general manager.

83. Answer: b

Explanation:

Seven employees: K, L, M, N, O, and P.

Designations: General Manager, Deputy General Manager, Assistant General Manager, Manager, Assistant Manager, Probationary Officer, and Clerk.

1) Four designations are there in between K's and L's designation. K is a senior to L.

Designations	Persons	Persons
	Case – 1	Case – 2
General Manager	K	
Deputy General Manager		K
Assistant General manager		
manager		
Assistant manager		
Probationary Officer	L	
clerk		L

2) O is a Clerk or Probationary Officer.

3) There is one designation between O and P

Designations	Persons	Persons
	Case – 1	Case – 2
General Manager	K	
Deputy General Manager		K
Assistant General manager		
manager		P
Assistant manager	P	
Probationary Officer	L	O
clerk	O	L

- 4) P is senior to O and junior to Q.
- 5) N is junior to M, who is senior to Q. Therefore, case 2 will be ruled out.
- 6) N is not Assistant General Manager.

Designations	Persons
	Case – 1
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant manager	P
Probationary Officer	L
clerk	O

Hence, the final arrangement will be,

Designations	Persons
	Case – 1
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant Manager	P
Probationary Officer	L
clerk	O

Hence, There is Two designations between P and M.

84. Answer: d

Explanation:

Seven employees: K, L, M, N, O, and P.

Designations: General Manager, Deputy General Manager, Assistant General Manager, Manager, Assistant Manager, Probationary Officer, and Clerk.

1) Four designations are there in between K's and L's designation. K is a senior to L.

Designations	Persons	Persons
	Case – 1	Case – 2
General Manager	K	
Deputy General Manager		K
Assistant General manager		
manager		
Assistant manager		
Probationary Officer	L	
clerk		L

2) O is a Clerk or Probationary Officer.

3) There is one designation between O and P

Designations	Persons	Persons
	Case – 1	Case – 2
General Manager	K	
Deputy General Manager		K
Assistant General manager		
manager		P
Assistant manager	P	
Probationary Officer	L	O
clerk	O	L

- 4) P is senior to O and junior to Q.
- 5) N is junior to M, who is senior to Q. Therefore, case 2 will be ruled out.
- 6) N is not Assistant General Manager.

Designations	Persons
	Case – 1
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant manager	P
Probationary Officer	L
clerk	O

Hence, the final arrangement will be,

Designations	Persons
	Case – I
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant Manager	P
Probationary Officer	L
clerk	O

Hence, P is a person who works as an assistant manager.

85. Answer: a

Explanation:

Seven employees: K, L, M, N, O, and P.

Designations: General Manager, Deputy General Manager, Assistant General Manager, Manager, Assistant Manager, Probationary Officer, and Clerk.

1) Four designations are there in between K's and L's designation. K is a senior to L.

Designations	Persons	Persons
	Case – 1	Case – 2
General Manager	K	
Deputy General Manager		K
Assistant General manager		
manager		
Assistant manager		
Probationary Officer	L	
clerk		L

2) O is a Clerk or Probationary Officer.

3) There is one designation between O and P

Designations	Persons	Persons
	Case – 1	Case – 2
General Manager	K	
Deputy General Manager		K
Assistant General manager		
manager		P
Assistant manager	P	
Probationary Officer	L	O
clerk	O	L

- 4) P is senior to O and junior to Q.
- 5) N is junior to M, who is senior to Q. Therefore, case 2 will be ruled out.
- 6) N is not Assistant General Manager.

Designations	Persons
	Case – 1
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant manager	P
Probationary Officer	L
clerk	O

Hence, the final arrangement will be,

Designations	Persons
	Case – I
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant Manager	P
Probationary Officer	L
clerk	O

Hence, an **Only statement I is correct.**

86. **Answer: b**

Explanation:

Seven employees: K, L, M, N, O, and P.

Designations: General Manager, Deputy General Manager, Assistant General Manager, Manager, Assistant Manager, Probationary Officer, and Clerk.

1) Four designations are there in between K's and L's designation. K is a senior to L.

Designations	Persons	Persons
	Case – 1	Case – 2
General Manager	K	
Deputy General Manager		K
Assistant General manager		
manager		
Assistant manager		
Probationary Officer	L	
clerk		L

2) O is a Clerk or Probationary Officer.

3) There is one designation between O and P

Designations	Persons	Persons
	Case – 1	Case – 2
General Manager	K	
Deputy General Manager		K
Assistant General manager		
manager		P
Assistant manager	P	
Probationary Officer	L	O
clerk	O	L

- 4) P is senior to O and junior to Q.
- 5) N is junior to M, who is senior to Q. Therefore, case 2 will be ruled out.
- 6) N is not Assistant General Manager.

Designations	Persons
	Case – 1
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant manager	P
Probationary Officer	L
clerk	O

Hence, the final arrangement will be,

Designations	Persons
	Case – 1
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant Manager	P
Probationary Officer	L
clerk	O

Hence, **two persons are senior to Q.**

87. Answer: c

Explanation:

If the vowels are changed to the next letter and the consonants are changed to the previous letters:

Given Word	S	U	B	T	I	T	L	E
After change	R	V	A	S	J	S	K	F
Alphabetical order	A	F	J	K	R	S	S	V

Hence, 'S' is 4th to the right of 3rd letter from the left end.

88. Answer: d

Explanation:

Drawing blood relation diagram using the following symbol table:

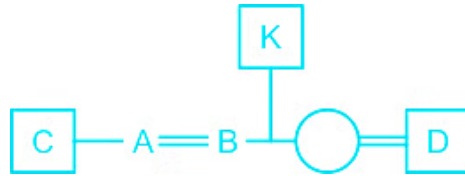
Symbol in Diagram	Meaning
○	Female
□	Male
==	Married couple
—	Siblings
	Difference of a generation

1- A is married to B.

2- C is the only brother of A.

3- D is Brother in law of B.

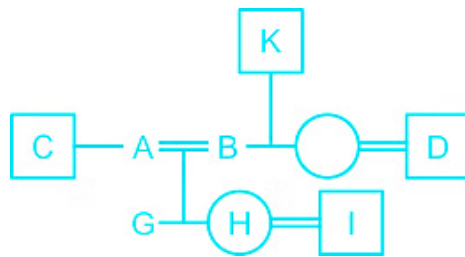
4- K is father in law of D.



5- G is the grandchild of K.

6- H is the sister of G.

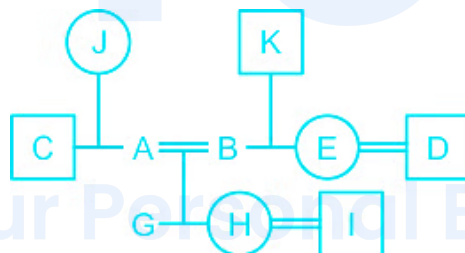
7- I is son in law of B.



8- J is the mother of A.

9- E is married to D.

So, Final arrangement;



Hence, If X is father in law of B then X is **Grandfather of G**.

89. Answer: b

Explanation:

Drawing blood relation diagram using the following symbol table:

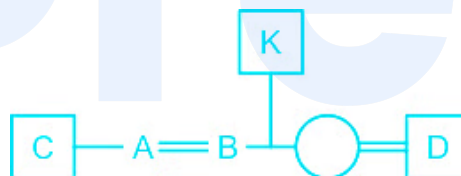
Symbol in Diagram	Meaning
○	Female
□	Male
=	Married couple
—	Siblings
	Difference of a generation

1- A is married to B.

2- C is only brother of A.

3- D is Brother in law of B.

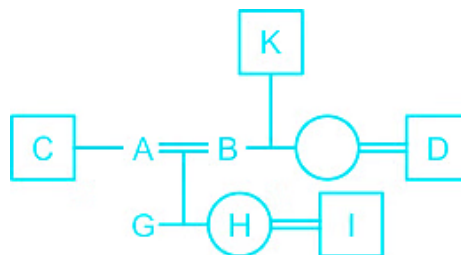
4- K is father in law of D.



5- G is the grandchild of K.

6- H is the sister of G.

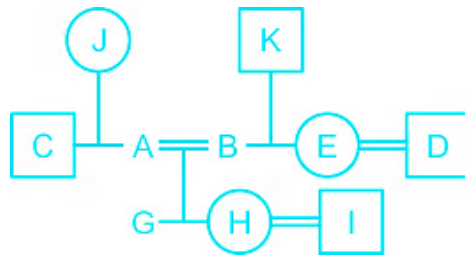
7- I is son in law of B.



8- J is the mother of A.

9- E is married to D.

So, Final arrangement;



Hence, H is daughter of A.

90. Answer: c

Explanation:

Drawing blood relation diagram using the following symbol table:

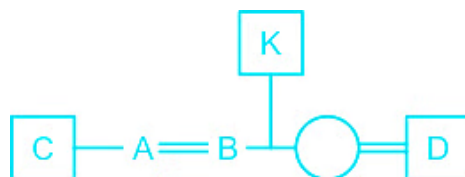
Symbol in Diagram	Meaning
○	Female
□	Male
==	Married couple
—	Siblings
	Difference of a generation

1- A is married to B.

2- C is only brother of A.

3- D is Brother in law of B.

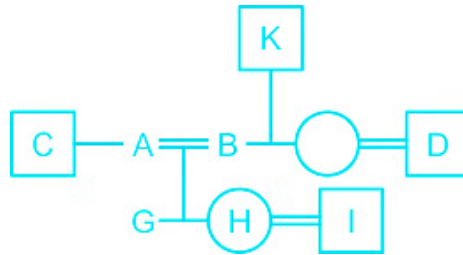
4- K is father in law of D.



5- G is the grandchild of K.

6- H is the sister of G.

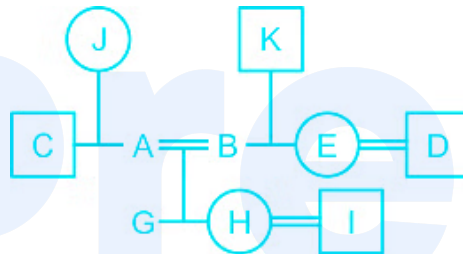
7- I is son in law of B.



8- J is the mother of A.

9- E is married to D.

So, Final arrangement;



Hence, K is the Grandfather of H.

91. Answer: c

Explanation:

Given: DISCHARGE

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

Letters	D	I	S	C	H	A	R	G	E
Position	4	9	19	3	8	1	18	7	5

Hence, **Three** pairs of letters are there in the word 'DISCHARGE', each of which has as many letters between them in the word (both forward and backward direction) as they have between them in the English Alphabet.

92. Answer: b

Explanation:

Eight people A, B, C, D, K, L, M, and N.

Four of them are sitting in Row-1 facing North.

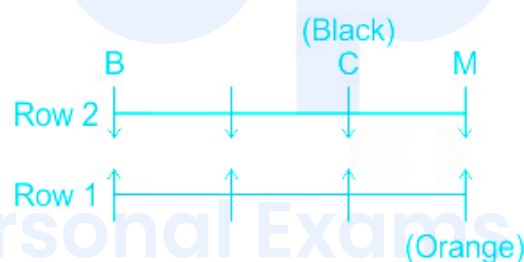
Four are sitting in Row-2 facing South.

1- The one who likes Orange sits on one end of Row-1.

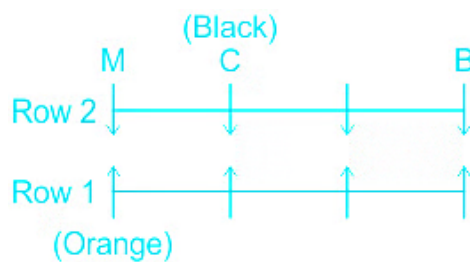
2- C likes black and sits immediately to M, who is facing the one who likes Orange.

3- One person is sitting between B and C.

Case-1



Case-2

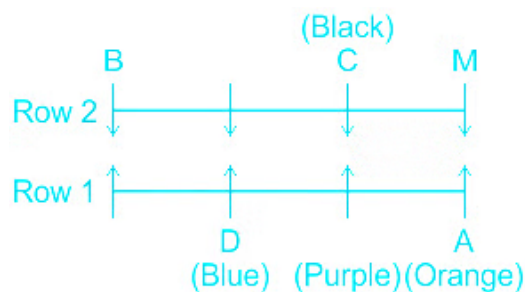


4- Immediate neighbour of B faces D.

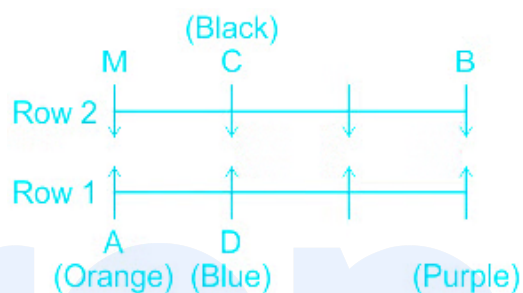
5- The one who likes Purple sits immediately to the right of D, who likes Blue colour.

6- Only one person is sitting between D and A.

Case-1



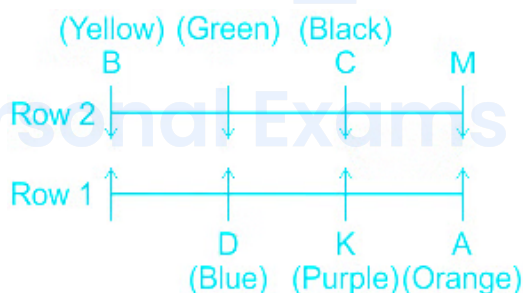
Case-2



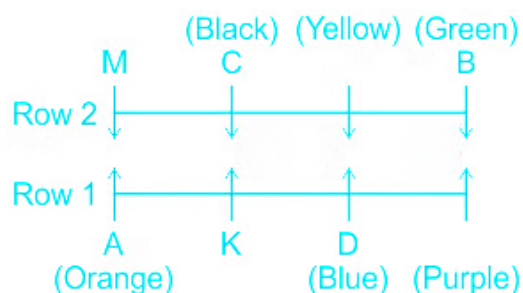
7- The one who likes Green sits immediately to the left of the one who likes Yellow.

8- K is an immediate neighbour of A.

Case-1

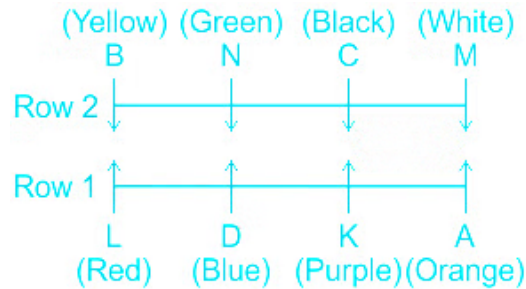


Case-2



9- Only one person sitting between K and L, who doesn't like either White or Purple. So, case-2 gets eliminated.

So, Final arrangement;



Hence, M-A are sitting on the end.

93. Answer: e

Explanation:

Eight people A, B, C, D, K, L, M, and N.

Four of them are sitting in Row-1 facing North.

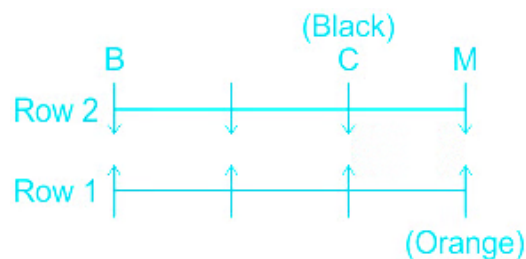
Four are sitting in Row-2 facing South.

1- The one who likes Orange sits on one end of Row-1.

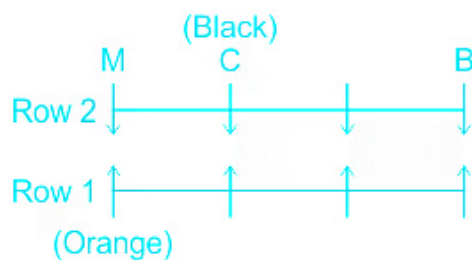
2- C likes black and sits immediately to M, who is facing the one who likes Orange.

3- One person is sitting between B and C.

Case-1



Case-2

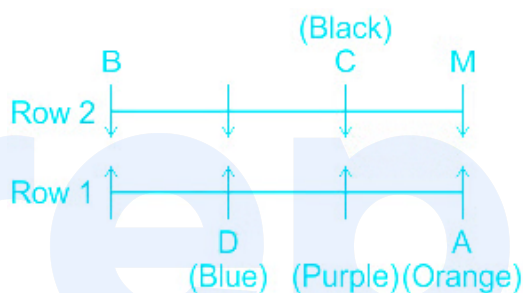


4- Immediate neighbour of B faces D.

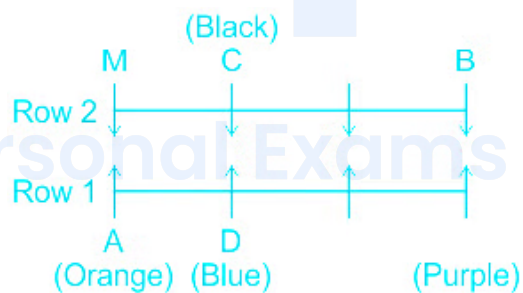
5- The one who likes Purple sits immediately to the right of D, who likes Blue colour.

6- Only one person is sitting between D and A.

Case-1



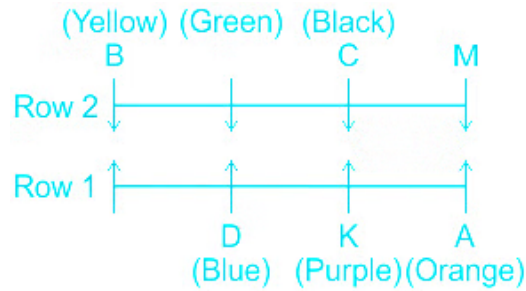
Case-2



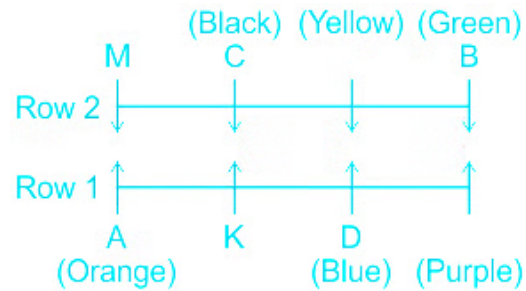
7- The one who likes Green sits immediately to the left of the one who likes Yellow.

8- K is an immediate neighbour of A.

Case-1

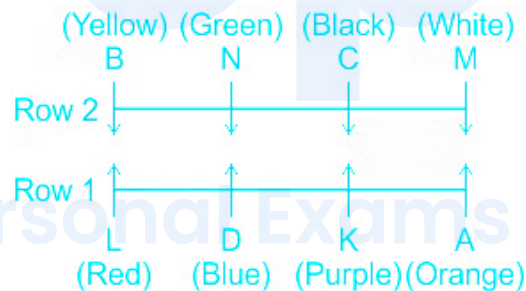


Case-2



9- Only one person sitting between K and L, who doesn't like either White or Purple. So, case-2 gets eliminated.

So, Final arrangement;



Here, M, A, B, L are sitting on the corner and C is not.

Hence, C is the odd one.

94. Answer: d

Explanation:

Eight people A, B, C, D, K, L, M, and N.

Four of them are sitting in Row-1 facing North.

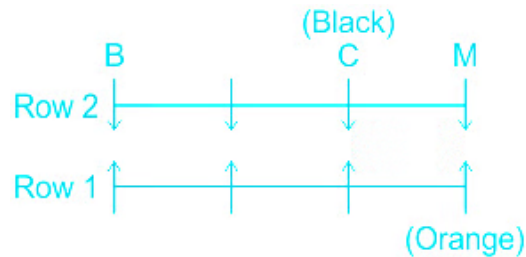
Four are sitting in Row-2 facing South.

1- The one who likes Orange sits on one end of Row-1.

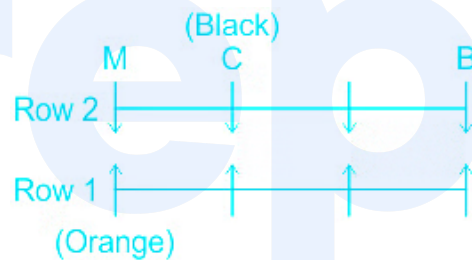
2- C likes black and sits immediately to M, who is facing the one who likes Orange.

3- One person is sitting between B and C.

Case-1



Case-2

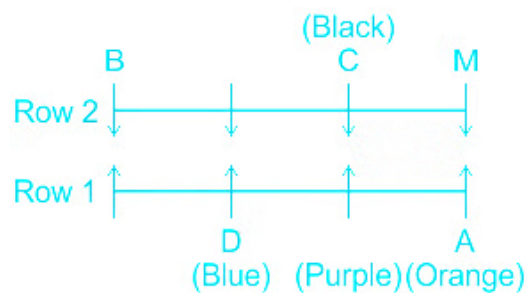


4- Immediate neighbour of B faces D.

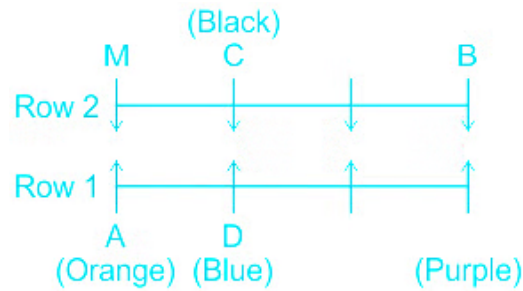
5- The one who likes Purple sits immediately to the right of D, who likes Blue colour.

6- Only one person is sitting between D and A.

Case-1



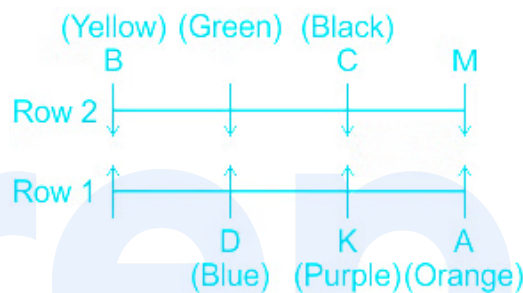
Case-2



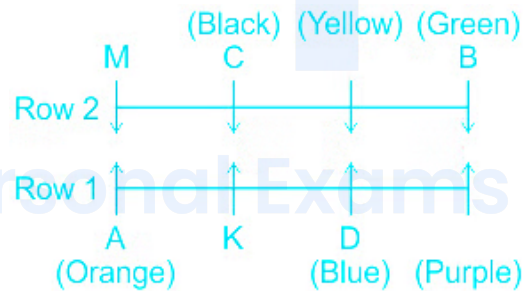
7- The one who likes Green sits immediately to the left of the one who likes Yellow.

8- K is an immediate neighbour of A.

Case-1

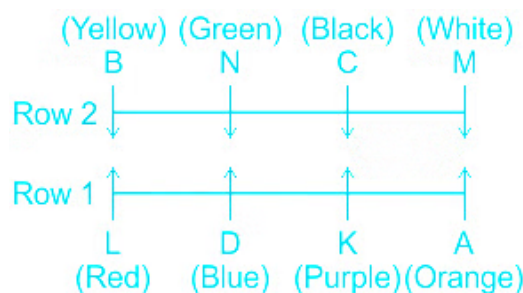


Case-2



9- Only one person sitting between K and L, who doesn't like either White or Purple. So, case-2 gets eliminated.

So, Final arrangement;



Hence, A is sitting immediately to the right of the one who likes Purple.

95. Answer: b

Explanation:

Eight people A, B, C, D, K, L, M, and N.

Four of them are sitting in Row-1 facing North.

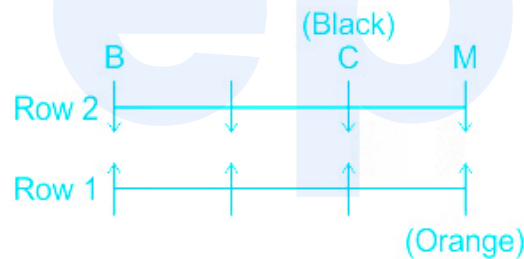
Four are sitting in Row-2 facing South.

1- The one who likes Orange sits on one end of Row-1.

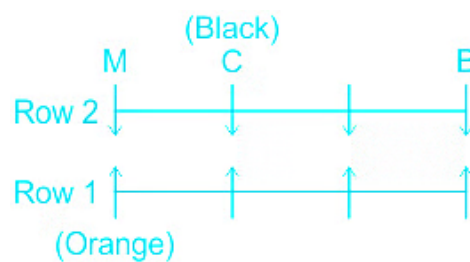
2- C likes black and sits immediately to M, who is facing the one who likes Orange.

3- One person is sitting between B and C.

Case-1



Case-2

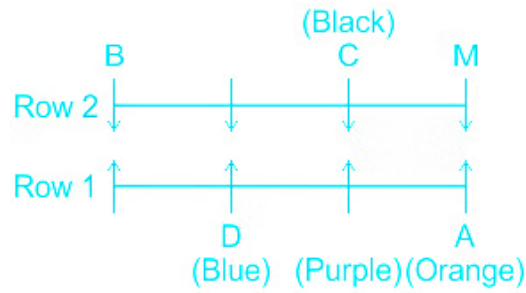


4- Immediate neighbour of B faces D.

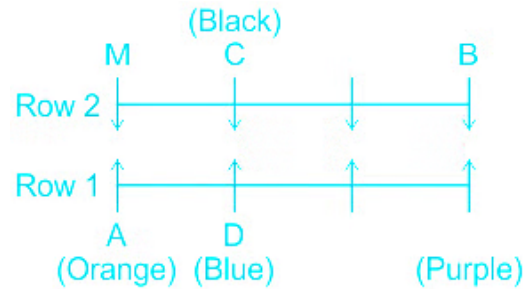
5- The one who likes Purple sits immediately to the right of D, who likes Blue colour.

6- Only one person is sitting between D and A.

Case-1



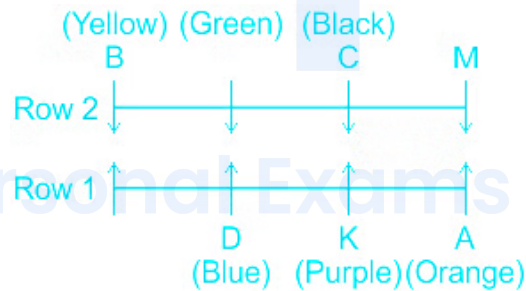
Case-2



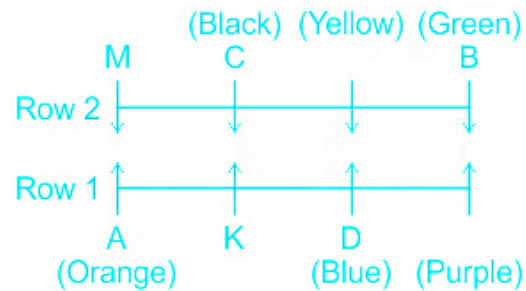
7- The one who likes Green sits immediately to the left of the one who likes Yellow.

8- K is an immediate neighbour of A.

Case-1

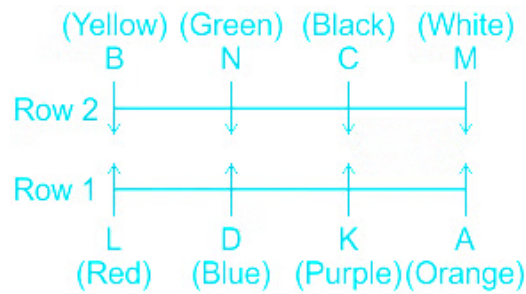


Case-2



9- Only one person sitting between K and L, who doesn't like either White or Purple. So, case-2 gets eliminated.

So, Final arrangement;



Hence, Two people sitting between M and B.

96. Answer: c

Explanation:

Eight people A, B, C, D, K, L, M, and N.

Four of them are sitting in Row-1 facing North.

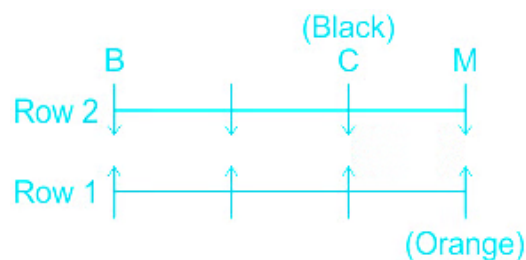
Four are sitting in Row-2 facing South.

1- The one who likes Orange sits on one end of Row-1.

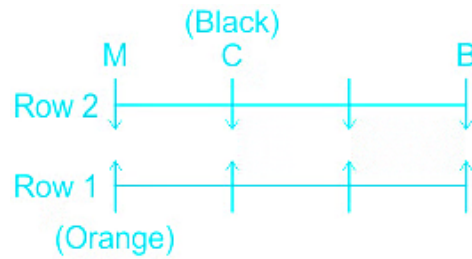
2- C likes black and sits immediately to M, who is facing the one who likes Orange.

3- One person is sitting between B and C.

Case-1



Case-2

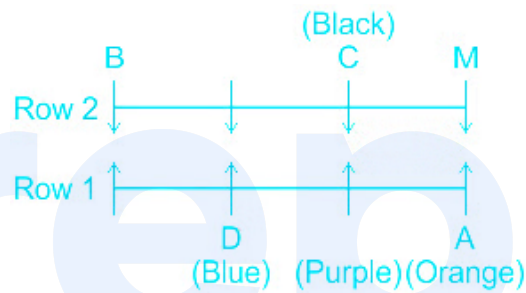


4- Immediate neighbour of B faces D.

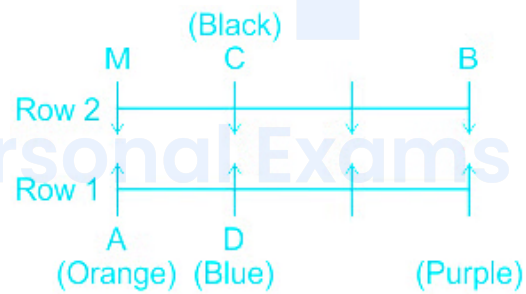
5- The one who likes Purple sits immediately to the right of D, who likes Blue colour.

6- Only one person is sitting between D and A.

Case-1



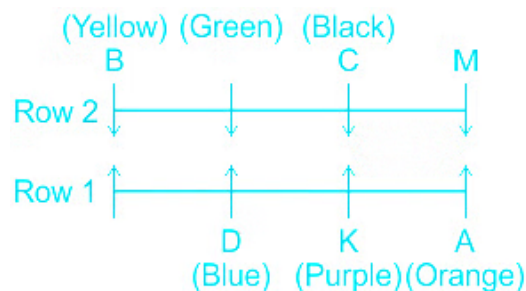
Case-2



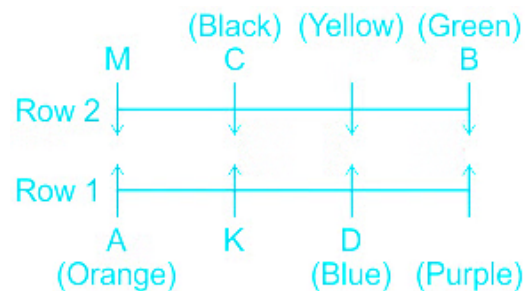
7- The one who likes Green sits immediately to the left of the one who likes Yellow.

8- K is an immediate neighbour of A.

Case-1

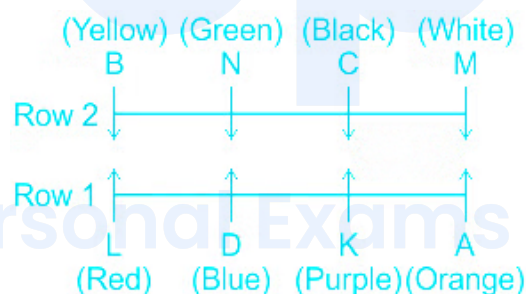


Case-2



9- Only one person sitting between K and L, who doesn't like either White or Purple. So, case-2 gets eliminated.

So, the Final arrangement;



Hence, N likes Green colour.

97. Answer: e

Explanation:

Given: 67843624

digits less than 5 subtracted by one and digits greater than 5 added by one then,

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

So, Non repeated numbers are 8, 9, 2, 1.

Sum of $8 + 9 + 2 + 1 = 20$,

Hence, **20 is the sum of non repeated numbers.**

98. Answer: b

Explanation:

1) Person A got last rank in class.

----->----->----->----->-----> A

2) B got more marks than C. but he did not get Second rank in class.

3) E got more marks than only A.

We have following cases.

Case I

$B > C > \text{-----} > \text{-----} > E > A$

Case II

$B > \text{--} > C > \text{--} > E > A$

Case III

----->-----> B > C > E > A

4) F was situated between D and B in class test ranking, and B score less than D.

Case I, II get eliminated.

$D > F > B > C > E > A$

6) The Second highest person got 92 marks.so, F got 92 marks.

Hence, Two person got more marks than B.

99. Answer: c

Explanation:

1) Person A got last rank in class.

_____ > _____ > _____ > _____ > _____ > A

2) B got more marks than C. but he did not get Second rank in class.

3) E got more marks than only A.

We have here two cases.

Case I

B > C > _____ > _____ > E > A

Case II

B > ___ > C > ___ > E > A

Case III

_____ > _____ > B > C > E > A

4) F was situated between D and B in class test ranking, and B score less than D.

Case I, II get eliminated.

D > F > B > C > E > A

6) The Second highest person got 92 marks.so, F got 92 marks.

Hence, D got 93 marks possibly.

100. Answer: d

Explanation:

1) Person A got last rank in class.

_____ > _____ > _____ > _____ > _____ > A

2) B got more marks than C. but he did not get Second rank in class.

3) E got more marks than only A.

We have here two cases.

Case I

$B > C > \text{_____} > \text{_____} > E > A$

Case II

$B > \text{__} > C > \text{__} > E > A$

Case III

_____ > _____ > $B > C > E > A$

4) F was situated between D and B in class test ranking, and B score less than D.

Case I, II get eliminated.

$D > F > B > C > E > A$

6) The Second highest person got 92 marks.so, F got 92 marks.

Hence, **C's rank is four.**

Your Personal Exams Guide