



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SBI PO 2018 (Prelims) Memory-Based Test (23-Jun-2018)

Total Time: 1 Hour

Total Marks: 100

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks	Sectional Timing
1	English Language	30	30	0.25	1	20 Min
2	Numerical Ability	35	35	0.25	1	20 Min
3	Reasoning Ability	35	35	0.25	1	20 Min

- 1.) A total of 60 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

English Language

1. Read the passage and answer the questions. Some words may be highlighted. Read carefully.

(+1, -0.25)

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products are moving from the tangible to the digital at an alarming rate, causing numerous stores to go out of business. Newspapers and magazines are struggling to sell copies, with many people preferring to use their iPhone or tablet to get the latest headlines and gossip. The music industry has also taken a hit, with the amount of illegal piracy that goes on, resulting in a dramatic decrease in compact disc sales.

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How can we increase our chances of employability and succeed in this new age?

- a. By changing our mindset and embracing new opportunities
- b. By changing the way we live
- c. By focusing on the right skills
- d. Both 1 and 3

e. Both 1 and 2

2. Read the passage and answer the questions. Some words may be highlighted. Read carefully.

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Which brand/company/organization has not been mentioned in the passage?

- a. Netflix
- b. eBooks
- c. Deloitte
- d. iPhone

e. None of these

3. Read the passage and answer the questions. Some words may be highlighted. Read carefully.

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Determine a suitable title for the passage.

- a. Technology and its Effects
- b. Man and his Relationship to Technology
- c. Technological Innovations in the 21st Century
- d. Technology– Boon or Bane?
- e. The Dark Side of Technology

4. Read the passage and answer the questions. Some words may be highlighted. Read carefully.

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What is the synonym of 'plethora'?

- a. Dearth
- b. Growth
- c. Myriad
- d. Destruction
- e. Fruition

5. Read the passage and answer the questions. Some words may be highlighted. Read carefully.

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What is the antonym of the word 'adaptive'?

- a. Elementary
- b. Egregious
- c. Flexible
- d. Adoptive
- e. Stubborn

6. Read the passage and answer the questions. Some words may be highlighted. Read carefully.

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What is the meaning of the emboldened phrase given below?

Sooner or later taxi drivers will be **fretting over** self-driving cars.

- a. Selling the cars off
- b. Feel anxious or concerned regarding someone or something
- c. Brood over
- d. Both 2 and 3
- e. None of these

7. Read the passage and answer the questions. Some words may be highlighted. Read carefully.

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Which of the following meanings properly explains the word '**trawling**' ?

- a. Trawl: to pull a large, cone-shaped net through the sea at a deep level behind a special boat in order to catch fish
- b. Trawl: move a lawnmower across a green lawn
- c. Trawl: to search among a large number or many different places in order to find people or information you want
- d. Both 2 and 3

e. Both 1 and 3

8. Read the passage and answer the questions. Some words may be highlighted. Read carefully.

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What is the overall tone of the passage?

- a. Optimistic
- b. Analytical
- c. Acerbic
- d. Lampooning
- e. Descriptive

9. Identify the segment of the sentence which contains the grammatical error. If there is no error mark 'No error' as your answer. (+1, -0.25)

When you press (A) the end call button (B) on the phone, (C) the call will disconnect automatically. (D) No Error (E)

- a. A
- b. B
- c. C
- d. D
- e. No error

10. In the following question, find out which part of the sentence has an error. If the sentence is grammatically correct, mark your answer as 'No Error'. (+1, -0.25)

My favourite teacher has (A)/ taught me very well how to write and speak English (B)/ and French in a very short (C) span of time (D) No Error (E)

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

11. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'. (+1, -0.25)

You, I and Ram (A) went to the market (B) the day before yesterday (C) where we bought this pillow (D) / No error (E) /

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

12. In the following sentence, some parts have error and some are correct. (+1, -0.25)
Find out which part has an error and mark it as your answer. If there is no error, mark 'No error' as your answer.

After a long wait (A) of almost 68 years, (B) the jury gave their verdict (C) on the Ayodhya feud. (D) No Error. (E)

- a. A
- b. B
- c. C
- d. D
- e. No error

13. Identify the segment of the sentence which contains the grammatical error. If there is no error mark 'No error' as your answer. (+1, -0.25)

Even if he loses this match, (A) he will still be getting (B) one more chance (C) to enter the finale. (D)

- a. A
- b. B
- c. C
- d. D
- e. No error

14. In the following question, out of the five alternatives, select the alternative which will improve the underlined part of the sentence. In case no improvement is needed, select the "No improvement" option. (+1, -0.25)

When the crowd collected round him he seemed confused, but at the demand of the tall lad who had pushed his way up to him, he began in a fairly too tremulous voice to read the sheet from the beginning.

- a. begins in a fairly too tremulous voice
- b. began in a fair too tremulous voice
- c. began in a rather too tremulous voice
- d. begins in a rather too tremulous voice
- e. No Improvement

15. In the following question, out of the four alternatives, select the alternative which will improve the underlined part of the sentence. In case no improvement is needed, select "No improvement". (+1, -0.25)

Aeroplanes were seldom if never, allowed to fly at late night during the winters of December and January due to security reasons and also safety issues at the time of landing.

- a. Seldom or ever
- b. Seldom if ever
- c. Seldom if none
- d. seldom but never
- e. No improvement

16. In the following question, out of the four alternatives, select the alternative (+1, -0.25) which will improve the underlined part of the sentence. In case no improvement is needed, select "No improvement".

He's ten years old, but he still solves puzzles and calculates fuzzy logics with neurologists observing that he has lots of brain activities going on in his mind and all his vitals are extremely fascinating.

- a. yet he still solves puzzles
- b. and he still solves puzzles
- c. but still solves puzzles
- d. he still but solves puzzles
- e. No improvement

17. Pick out the most effective word from the given options to fill in the blanks (+1, -0.25) of the following question.

Reshma has a very annoying habit of _____ in idle gossip.

Tonight I am _____ myself with a bottle of Champagne.

- a. Attracting

- b. Interacting
- c. Participating
- d. Indulging
- e. Treating

18. Pick out the most effective word from the given options to fill in the blanks (+1, -0.25) of the following sentences.

Her face had a _____ pallor which he noticed immediately on reaching her.

He got a _____ shock on opening the parcel.

- a. trivial
- b. charming
- c. unpleasant
- d. ill
- e. ghastly

19. Pick out the most effective word from the given options to fill in the blanks (+1, -0.25) of the following sentences.

He made his camp in the thicket when he was sure that there were sure signs of gorilla _____ in the surrounding valley.

Humans have always built their _____ close to rivers as it provides easy access to water.

- a. habitation

- b. houses
- c. tenure
- d. lodging
- e. seat

20. Pick out the most effective word from the given options to fill in the blanks (+1, -0.25) of the following sentences.

The wood of the nail when dry has a _____
resembling that of sandalwood and is used for torches in fishing.

The new perfume had a unique _____ that smelled
like the first day of spring.

- a. Stench
- b. Fragrance
- c. Perfume
- d. Odour
- e. Nose

21. Pick out the most effective word from the given options to fill in the blanks (+1, -0.25) of the following sentences.

a) Her speeches always had the capacity to _____ the flames
of patriotism in the minds of the youth.

b) Plastic can _____ easily when exposed to fire.

- a. arouse

- b. ignite
- c. instigate
- d. excite
- e. burn

22. Rearrange the following five sentences/group of sentences (A), (B), (C), (D), and (E) in the proper sequence to form a meaningful paragraph; then answer the questions given below them. (+1, -0.25)

- A. Multi Commodity Exchange of India provides live feeds for all traded commodities and these are published on various websites.
- B. MCX offers options trading in gold and futures trading in non-ferrous metals, bullion, energy, and a number of agricultural commodities.
- C. From 28 September 2015, MCX is being regulated by the Securities and Exchange Board of India (SEBI).
- D. Multi Commodity Exchange of India Ltd (MCX) is an independent commodity exchange based in India.
- E. MCX was among the top global commodity exchanges in terms of the number of futures contracts trade.

Which of the following should be the SECOND sentence after rearrangement?

- a. B
- b. C
- c. D
- d. A

e. E

23. Rearrange the following five sentences/group of sentences (A), (B), (C), (D), and (E) in the proper sequence to form a meaningful paragraph; then answer the questions given below them. (+1, -0.25)

A. Multi Commodity Exchange of India provides live feeds for all traded commodities and these are published on various websites.

B. MCX offers options trading in gold and futures trading in non-ferrous metals, bullion, energy, and a number of agricultural commodities.

C. From 28 September 2015, MCX is being regulated by the Securities and Exchange Board of India (SEBI).

D. Multi Commodity Exchange of India Ltd (MCX) is an independent commodity exchange based in India.

E. MCX was among the top global commodity exchanges in terms of the number of futures contracts trade.

Which of the following should be the FIRST sentence after rearrangement?

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

24. Rearrange the following five sentences/group of sentences (A), (B), (C), (D), and (E) in the proper sequence to form a meaningful paragraph; then answer the questions given below them. (+1, -0.25)

- A. Multi Commodity Exchange of India provides live feeds for all traded commodities and these are published on various websites.
- B. MCX offers options trading in gold and futures trading in non-ferrous metals, bullion, energy, and a number of agricultural commodities.
- C. From 28 September 2015, MCX is being regulated by the Securities and Exchange Board of India (SEBI).
- D. Multi Commodity Exchange of India Ltd (MCX) is an independent commodity exchange based in India.
- E. MCX was among the top global commodity exchanges in terms of the number of futures contracts trade.

Which of the following should be the FOURTH sentence after rearrangement?

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

25. Rearrange the following five sentences/group of sentences (A), (B), (C), (D), and (E) in the proper sequence to form a meaningful paragraph; then answer the questions given below them. (+1, -0.25)

- A. Multi Commodity Exchange of India provides live feeds for all traded commodities and these are published on various websites.
- B. MCX offers options trading in gold and futures trading in non-ferrous metals, bullion, energy, and a number of agricultural commodities.

C. From 28 September 2015, MCX is being regulated by the Securities and Exchange Board of India (SEBI).

D. Multi Commodity Exchange of India Ltd (MCX) is an independent commodity exchange based in India.

E. MCX was among the top global commodity exchanges in terms of the number of futures contracts trade.

Which of the following should be the LAST sentence after rearrangement?

a. A

b. B

c. C

d. D

e. E

26. Rearrange the following five sentences/group of sentences (A), (B), (C), (D), and (E) in the proper sequence to form a meaningful paragraph; then answer the questions given below them. (+1, -0.25)

A. Multi Commodity Exchange of India provides live feeds for all traded commodities and these are published on various websites.

B. MCX offers options trading in gold and futures trading in non-ferrous metals, bullion, energy, and a number of agricultural commodities.

C. From 28 September 2015, MCX is being regulated by the Securities and Exchange Board of India (SEBI).

D. Multi Commodity Exchange of India Ltd (MCX) is an independent commodity exchange based in India.

E. MCX was among the top global commodity exchanges in terms of the number of futures contracts trade.

Which of the following should be the THIRD sentence after rearrangement?

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

-
27. In the following question, a sentence is given with four words marked as (A), (B), (C) and (D). These words may or may not be placed in their correct order. Four options with different arrangements of these words have been provided. Mark the option with the correct arrangement as the answer. If no rearrangement is required, mark option (5) as your answer. (+1, -0.25)

The **decreased** (A) were **desperate** (B) for any kind of fish as the **quantity** (C) of good fish had **fishermen** (D) in recent years.

- a. D-B
 - b. C-A
 - c. C-B
 - d. A-D
 - e. No Rearrangement
-

28. In each of the questions given below, four words are given in bold. These four words may or may not be in their correct position. The sentence is then followed by options with the correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct. Find the correct combination of words that replace each other. If the sentence is correct as it is, select '5' as your option. (+1, -0.25)

Countries (A) based on the colour (B) of one's skin is a major problem (C) in India and a lot of other discrimination. (D)

- a. A-B
- b. B-C
- c. C-D
- d. D-A
- e. No Rearrangement

29. Directions- In each of the following questions, one phrase has been given and it has been followed by four sentences. You have to find out in which of these sentences phrase has been used properly according to its meaning and mark your answer from the options denoted by 1,2,3,4. Mark 5. As your answer if you find that phrase has been applied properly in all the sentences. (+1, -0.25)

An apple of discord

- I. My sister and I had fought over a piece of land causing an apple of discord a few years ago and we haven't spoken in since.
- II. The "best employee" award has been an apple of discord among the co-workers for quite some time.

III. If I had known that an apple of discord would occur among villagers, I would not have told them about my new business venture.

IV. Sharing credit for their breakthrough work became an apple of discord between the two research students.

- a. II, IV
- b. All except III
- c. IV, I
- d. II, III
- e. All are correct

-
30. Directions- In each of the following questions, one phrase has been given and it has been followed by four sentences. You have to find out in which of these sentences phrase has been used properly according to its meaning and mark your answer from the options denoted by 1,2,3,4. Mark 5. As your answer if you find that phrase has been applied properly in all the sentences. (+1, -0.25)

Bolt from the blue

I. The news of her husband's death in the air crash came to her like a bolt from blue.

II. I do not think hostilities have ever been begun except by something rather approaching a bolt from the blue.

III. Developing weapons of mass destruction by North Korea came as a bolt from the blue for the world.

IV. The blue skies were filled with dark clouds, bolts of lightning were seen all over the city.

- a. III,II
- b. I,II
- c. All except IV
- d. I,IV
- e. All are correct

Prepp

Your Personal Exams Guide

Numerical Ability

31. What approximate value will come in the place of the question mark '?' in the following question? (+1, -0.25)

$$244.99 \div 4.99 + (40\% \text{ of } 1549.99) = 760 - ?$$

- a. 81
- b. 19
- c. 91
- d. 71
- e. 93

32. What approximate will come in the place of the question mark '?' in the following question? (+1, -0.25)

$$\left(\frac{3.07}{4.01}\right)^2 \times 127.96 + 442.02 = ?$$

- a. 510
- b. 441
- c. 514
- d. 500
- e. 610

33. What approximate value will come in the place of the question mark '?' in the following question? (+1, -0.25)

$$\sqrt{74.01 + 43.01 \times 4.99} = 74.01 - ?$$

- a. 101
- b. 81
- c. 87
- d. 91
- e. 57

34. What approximate will come in the place of the question mark '?' in the following question? (+1, -0.25)

$$244.03 - 654.02 + ? \div 2.01 = 835.01$$

- a. 2550
- b. 2490
- c. 1945
- d. 1545
- e. 2445

35. What approximate value will come in the place of the question mark '?' in the following question? (+1, -0.25)

$$65.01 - \sqrt[3]{512} + 249 = ? - 240$$

- a. 500
- b. 522

c. 546

d. 512

e. 484

-
36. What will come in the place of the question mark '?' in the following question? (+1, -0.25)

$$\sqrt{289} - 15\% \text{ of } 300 = ?^2 - 284$$

a. 10

b. 32

c. 15

d. 24

e. 16

-
37. A invests Rs. 2800 and B invests Rs. 2100 in a business, A withdraws his money after 6 months while C invested 25% of A's capital after 4 months when A withdraws his money and B invests for the whole year, if annual profit of is Rs. 930, then find B's share. (+1, -0.25)

a. Rs. 540

b. Rs. 1080

c. Rs. 800

d. Rs. 700

e. Rs. 810

38. A whole-seller after allowing a successive discount of 20% and 10% on the list price of a product get a profit of Rs. 120. find the cost price of the product, If list price of the product is Rs. 1000. (+1, -0.25)

- a. Rs. 400
- b. Rs. 440
- c. Rs. 600
- d. Rs. 500
- e. None of these

39. A bag contains four white and six black balls. If three balls are chosen from the bag at random, then what is the probability that all are white? (+1, -0.25)

- a. $\frac{1}{10}$
- b. $\frac{1}{30}$
- c. $\frac{1}{25}$
- d. $\frac{1}{20}$
- e. none of these

40. A man can row 52 km upstream and 42 km downstream in 10 hours. It is also known that he can row 66 km downstream and 60 km upstream in 13 hours. Find the speed of the man in still water. (+1, -0.25)

- a. 8 km/hr
- b. 12 km/hr

- c. 6 km/hr
- d. 10 km/h
- e. none of these

41. A and B completed a work together in 6 days. Had A worked $\frac{1}{3}^{\text{rd}}$ of his efficiency and B's efficiency remains the same, then it would have taken them 10 days to complete the task. How much time would it take for A alone to complete the work? (+1, -0.25)

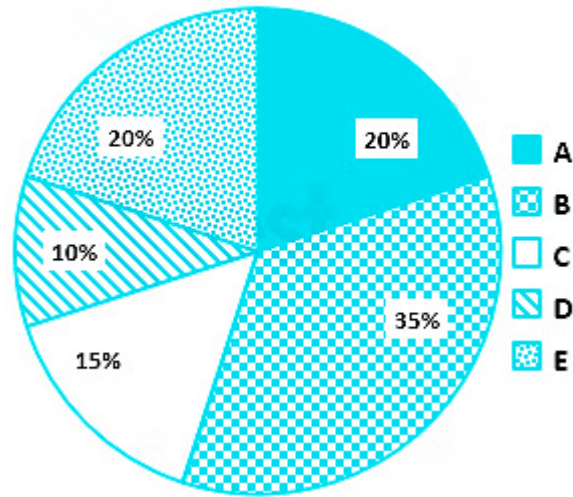
- a. 15 days
- b. 21 days
- c. 6 days
- d. 12 days
- e. none of these

42. **Direction:** Study the following table and pie chart and answer the following questions. (+1, -0.25)

The following pie chart shows the percentage of chocolates bought by 5 persons

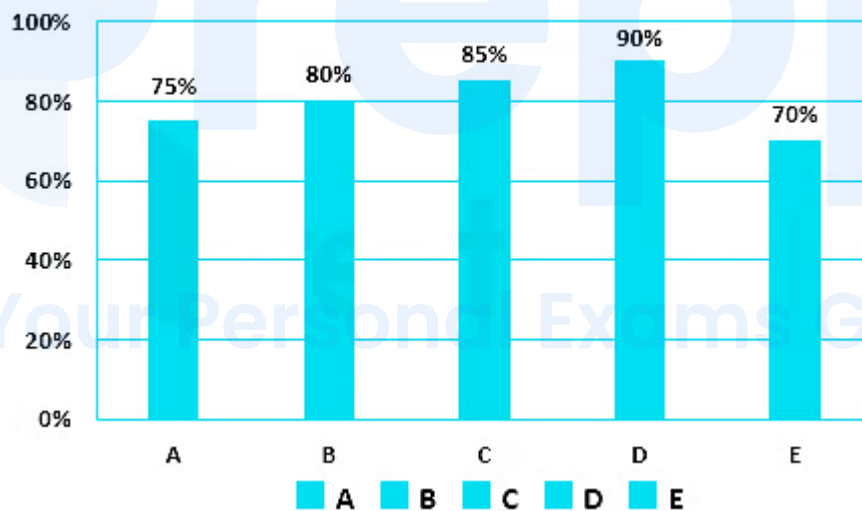
Total number of chocolates = 400

Percentage of chocolates bought
by 5 persons



Following table shows the percentage of chocolates sold by all 5 persons from the chocolates they have bought.

Percentage of sold chocolates by 5 persons



Find the number of unsold chocolates by A

- a. 15
- b. 20
- c. 25
- d. 18

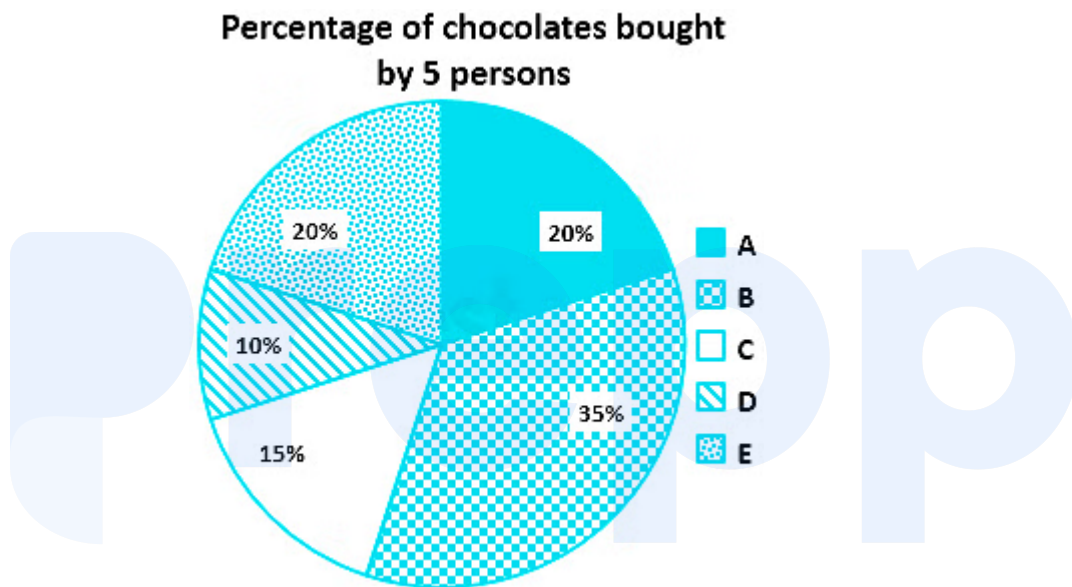
e. 30

43. **Direction:** Study the following table and pie chart and answer the following questions.

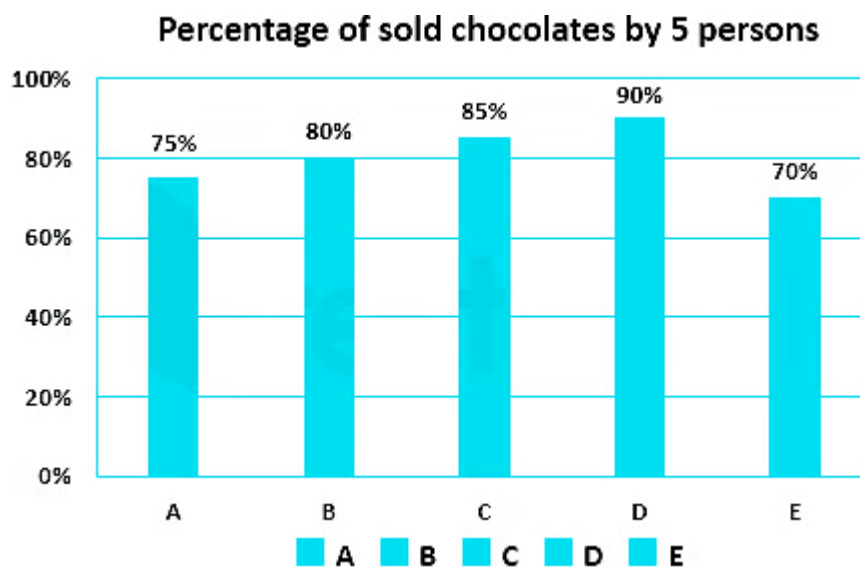
(+1, -0.25)

The following pie chart shows the percentage of chocolates bought by 5 persons

Total number of chocolates = 400



Following table shows the percentage of chocolates sold by all 5 persons from the chocolates they have bought.



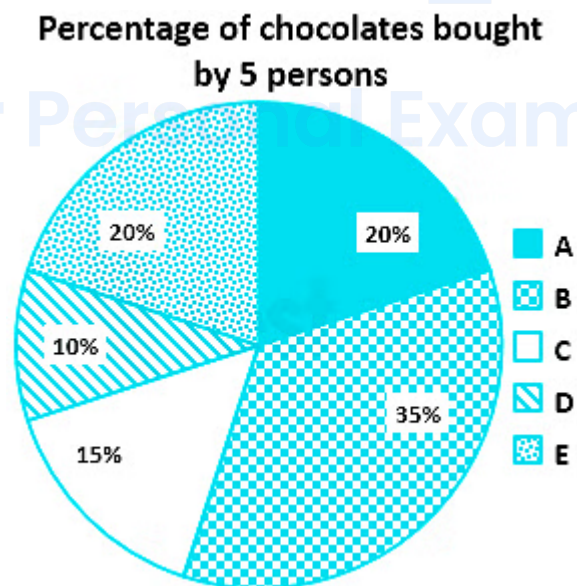
Find the ratio between the number of sold chocolates by B and number of unsold chocolates by C

- a. 112 : 9
- b. 125 : 6
- c. 13 : 7
- d. 117 : 53
- e. None of the above

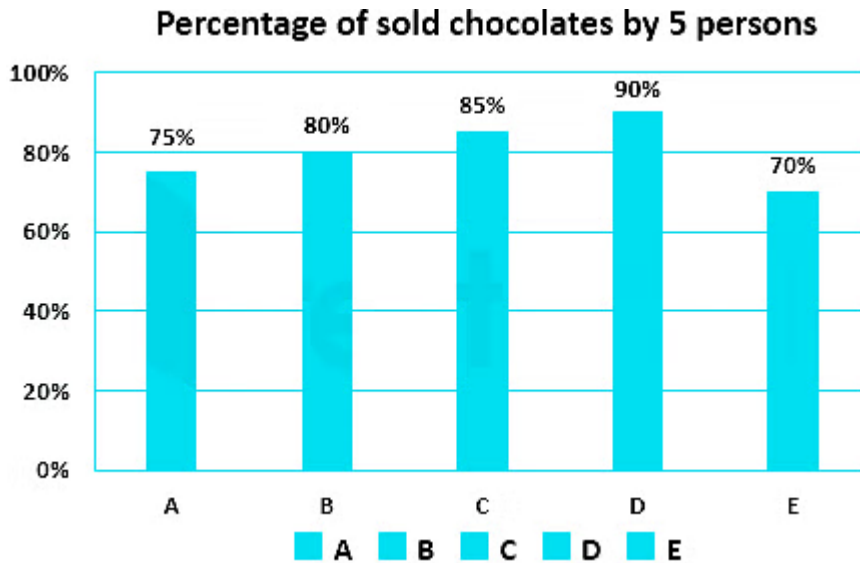
44. **Direction:** Study the following table and pie chart and answer the following questions. (+1, -0.25)

The following pie chart shows the percentage of chocolates bought by 5 persons

Total number of chocolates = 400



Following table shows the percentage of chocolates sold by all 5 persons from the chocolates they have bought.



Find the difference between the total number of chocolates sold by A and C together and total number of chocolates which remain unsold by B, D and E together.

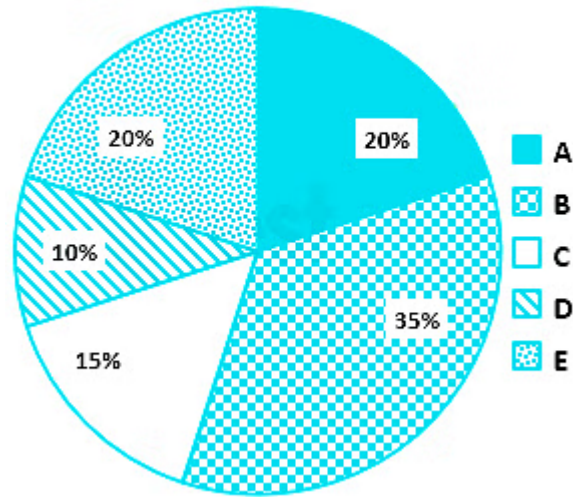
- a. 52
- b. 53
- c. 58
- d. 55
- e. 61

45. **Direction:** Study the following table and pie chart and answer the following questions. (+1, -0.25)

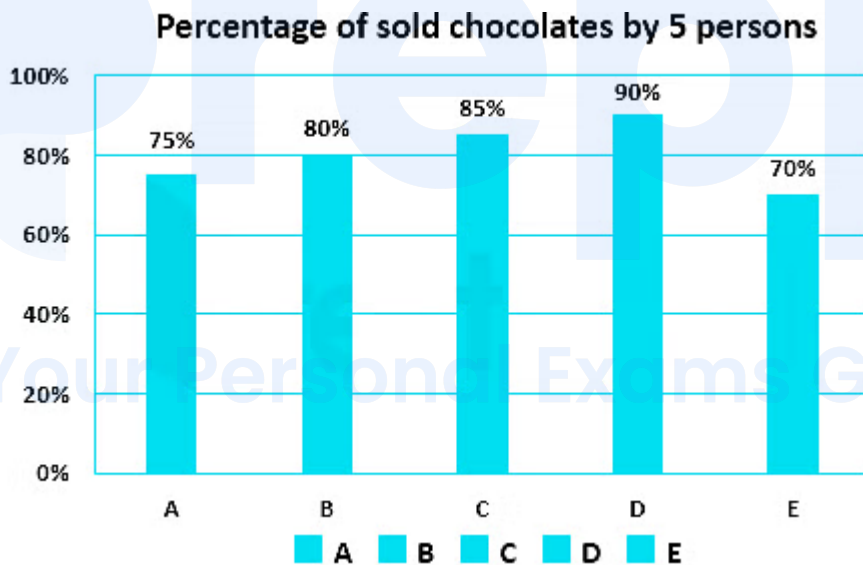
The following pie chart shows the percentage of chocolates bought by 5 persons

Total number of chocolates = 400

Percentage of chocolates bought
by 5 persons



Following table shows the percentage of chocolates sold by all 5 persons from the chocolates they have bought.



The number of chocolates sold by D is what% of the number of chocolates sold by A?

- a. 50%
- b. 55%
- c. 60%

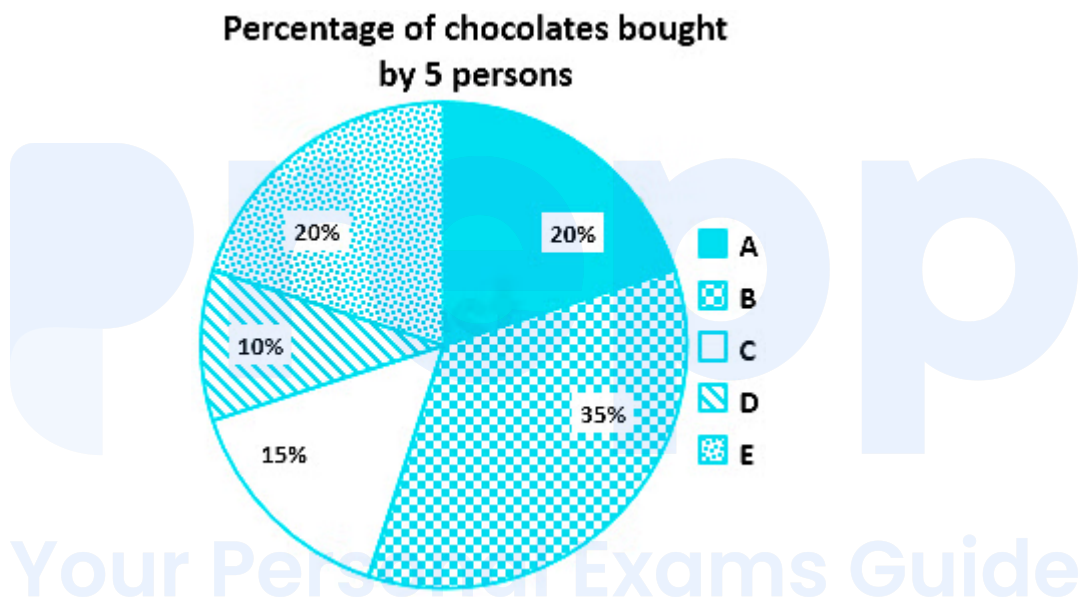
d. 65%

e. 45%

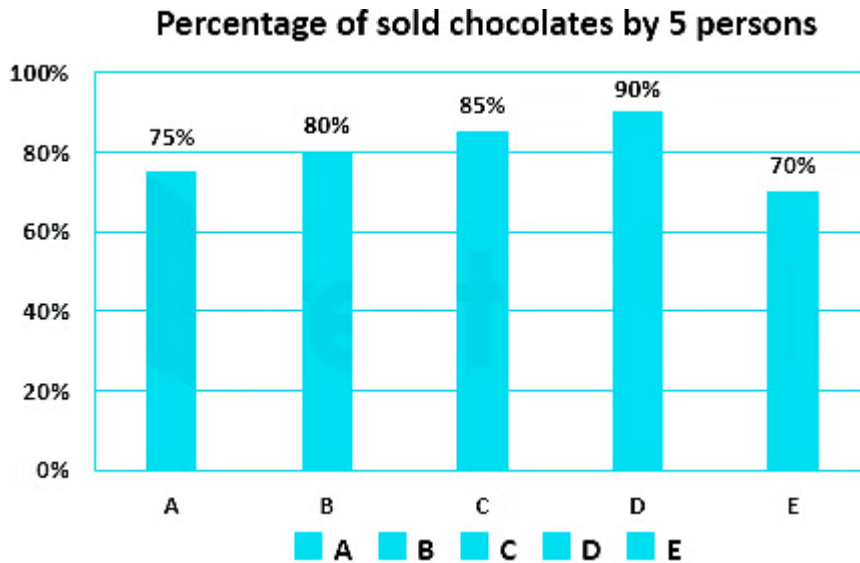
46. **Direction:** Study the following table and pie chart and answer the following questions. (+1, -0.25)

The following pie chart shows the percentage of chocolates bought by 5 persons

Total number of chocolates = 400



Following table shows the percentage of chocolates sold by all 5 persons from the chocolates they have bought.



If F is a person who bought 16 chocolates more than that of E and have sold 50% more than the number of chocolates sold by D then, find the difference between the number of chocolates bought by F and the number of sold chocolates by F.

- a. 42
- b. 44
- c. 46
- d. 40
- e. 48

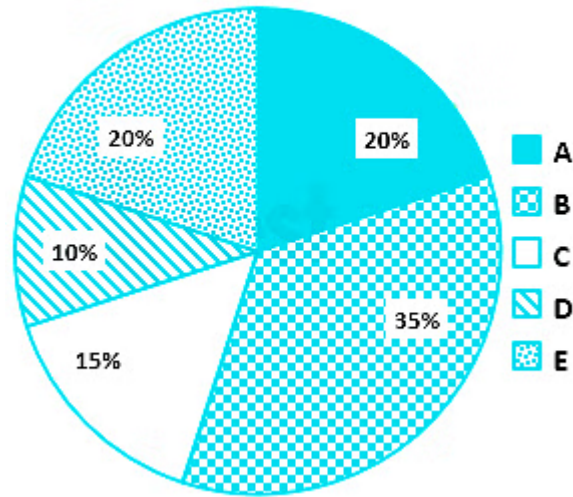
47. **Direction:** Study the following table and pie chart and answer the following questions.

(+1, -0.25)

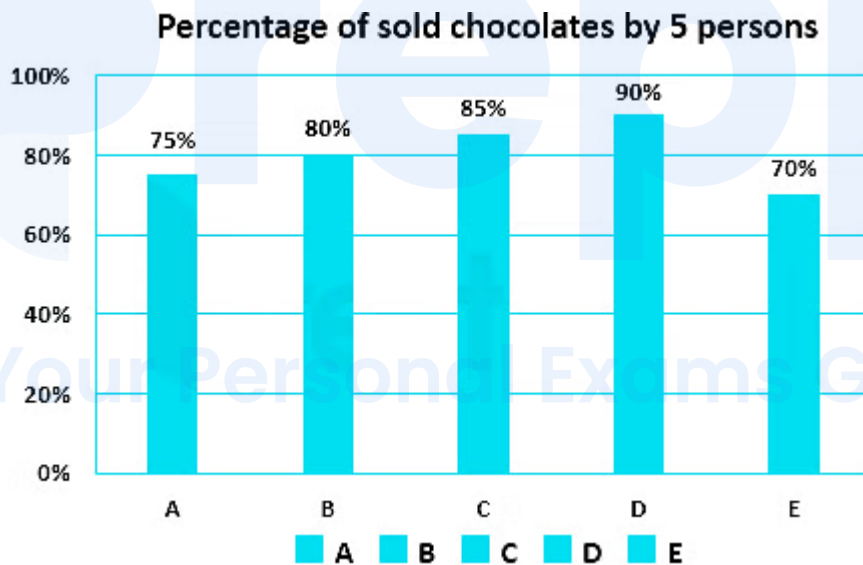
The following pie chart shows the percentage of chocolates bought by 5 persons

Total number of chocolates = 400

Percentage of chocolates bought
by 5 persons



Following table shows the percentage of chocolates sold by all 5 persons from the chocolates they have bought.



The total number of unsold chocolates by all 5 persons is what% of the total chocolates available?

- a. 20.5%
- b. 21.75%
- c. 22.25%

d. 20.75%

e. 21.25%

48. In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer. (+1, -0.25)

I. $3x^2 + 19x + 20 = 0$

II. $6y^2 + 19y + 15 = 0$

- a. $x \times y$
- b. $x \div y$
- c. $x \geq y$
- d. $x \leq y$
- e. $x = y$ or the relationship between x and y cannot be established.

49. In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer. (+1, -0.25)

I. $x^2 = 256$

II. $y^2 + 18y + 17 = 0$

- a. $x \times y$
- b. $x \div y$
- c. $x \geq y$
- d. $x \leq y$
- e. $x = y$ or the relationship between x and y cannot be established.

50. In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer. (+1, -0.25)

I. $x^2 - 15x + 56 = 0$

II. $y^2 + 17y + 72 = 0$

- a. $x \times y$
- b. $x \div y$
- c. $x \geq y$
- d. $x \leq y$
- e. $x = y$ or the relationship between x and y cannot be established.

51. In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer. (+1, -0.25)

I. $4x^2 + 13x + 9 = 0$

II. $4y^2 + 20y + 25 = 0$

- a. $x \times y$
- b. $x \div y$
- c. $x \geq y$
- d. $x \leq y$
- e. $x = y$ or the relationship between x and y cannot be established.

52. In the given questions, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate answer (+1, -0.25)

I. $x^2 - 14x + 33 = 0$

II. $y^2 - 20y + 99 = 0$

- a. $x \leq y$
- b. $x \geq y$
- c. $x < y$
- d. $x > y$
- e. $x = y$ or the relationship between x and y cannot be established.

53. In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer. (+1, -0.25)

I. $3x^2 - 18x + 24 = 0$

II. $5y^2 - 50y + 125 = 0$

- a. $x > y$
- b. $x < y$
- c. $x \geq y$
- d. $x \leq y$
- e. $x = y$ or the relationship between x and y cannot be established.

54. Four year ago, the average age of a family of 5 members was 21 years. A baby has born, the average of the family remains the same today. What is the age of the baby? (+1, -0.25)
- a. 2.5 years
 - b. 2 years
 - c. 1 year
 - d. 1.5 years
 - e. none of these
-

55. The perimeter of a rectangle is 420 m. The length of the rectangle is 30 m more than its breadth. Find the time taken to cross it diagonally if the rate of speed is 10m/s. (+1, -0.25)
- a. 15 seconds
 - b. 18 seconds
 - c. 17 seconds
 - d. 12 seconds
 - e. 10 seconds
-

56. A man had Rs. 3000 with him. He kept Rs. 250 with him and distributed the rest. The ratio of A and B was 5 : 6. The ratio of B and C was 3 : 4 and the ratio of C and D was 4 : 3. Find the amount which C got. (+1, -0.25)
- a. Rs. 780

- b. Rs. 875
- c. Rs. 880
- d. Rs. 900
- e. Rs. 760

57. What will be the sum on which the rate of interest is 4% per annum for the first 2 yr, 6% per annum for the next 4 yr and 8% per annum for the period beyond 6 yr. if the simple interest accrued by the sum for a total period of 9 yr is Rs. 4480? (+1, -0.25)

- a. 7200
- b. 12400
- c. 9220
- d. 11800
- e. 8000

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58. A 30 m long train crosses a person who is walking at a speed of 8 km/hr in the opposite direction and passes him in 8 seconds. Subsequently, it crosses a second person, walking in the same direction as that of the first person, and passes him in 3 seconds. What is the speed of the second person? (+1, -0.25)

- a. 27.5 km/hr
- b. 30.5 km/hr
- c. 28.5 km/hr

d. 25.5 km/hr

e. 22.5 km/hr

59. Two Alloys X and Y contain Brass and Aluminum in the ratio 8 : 9 and 1 : 6 respectively. In what ratio should they be mixed so as to have 25% brass? (+1, -0.25)

a. 15 : 19

b. 3 : 7

c. 19 : 36

d. 17 : 35

e. 35 : 16

60. Directions: Read the given table carefully and answer the following questions. (+1, -0.25)

Given table shows the data of number of seats in 5 different buses and the percentage of the seats filled by passengers. Some values are missing here.

Bus	Total number of seats	Percentage of seats filled
A	40	75%
B	25	84%
C	50	88%
D	#	60%
E	#	80%

Note : Total number of seats in Buses D and E together is 65 .

(Total number of vacant seats in all the buses is 40)

The number of vacant seat of bus C is what percent more or less than the number of vacant seat of bus A?

- a. 40%
- b. 30%
- c. 20%
- d. 10%
- e. 50%

61. Directions: Read the given table carefully and answer the following questions. (+1, -0.25)

Given table shows the data of number of seats in 5 different buses and the percentage of the seats filled by passengers. Some values are missing here.

Bus	Total number of seats	Percentage of seats filled
A	40	75%
B	25	84%
C	50	88%
D	#	60%
E	#	80%

Note : Total number of seats in Buses D and E together is 65 .

(Total number of vacant seats in all the buses is 40)

If filled seat of bus E is 3 more than the filled seats of bus B. Find the ratio of vacant seat of buses D and E.

- a. 3 : 2
- b. 2 : 3
- c. 3 : 7
- d. 2 : 5
- e. 7 : 3

62. Directions: Read the given table carefully and answer the following questions. (+1, -0.25)

Given table shows the data of number of seats in 5 different buses and the percentage of the seats filled by passengers. Some values are missing here.

Bus	Total number of seats	Percentage of seats filled
A	40	75%
B	25	84%
C	50	88%
D	#	60%
E	#	80%

Note : Total number of seats in Buses D and E together is 65 .

(Total number of vacant seats in all the buses is 40)

If in another bus F, number of filled seats is twice the filled seat of bus A, which is 60% of total seats in bus F. Then find the difference in vacant

seats of buses F and A.

- a. 10
- b. 15
- c. 25
- d. 30
- e. 20

63. Directions: Read the given table carefully and answer the following questions. (+1, -0.25)

Given table shows the data of number of seats in 5 different buses and the percentage of the seats filled by passengers. Some values are missing here.

Bus	Total number of seats	Percentage of seats filled
A	40	75%
B	25	84%
C	50	88%
D	#	60%
E	#	80%

Note : Total number of seats in Buses D and E together is 65 .

(Total number of vacant seats in all the buses is 40)

If the ratio of number of seats of D and E is 7 : 6. Find the average of number of filled seats in all buses.

- a. 24

- b. 26
- c. 28
- d. 30
- e. 32

64. Directions: Read the given table carefully and answer the following questions. (+1, -0.25)

Given table shows the data of number of seats in 5 different buses and the percentage of the seats filled by passengers. Some values are missing here.

Bus	Total number of seats	Percentage of seats filled
A	40	75%
B	25	84%
C	50	88%
D	#	60%
E	#	80%

Note : Total number of seats in Buses D and E together is 65 .

(Total number of vacant seats in all the buses is 40)

If number of seats of bus E is 10 less than the seats of bus A. Find the number of vacant seats in Bus D.

- a. 10
- b. 14
- c. 16

d. 18

e. 8

65. Directions: Read the given table carefully and answer the following questions. (+1, -0.25)

Given table shows the data of number of seats in 5 different buses and the percentage of the seats filled by passengers. Some values are missing here.

Bus	Total number of seats	Percentage of seats filled
A	40	75%
B	25	84%
C	50	88%
D	#	60%
E	#	80%

Note : Total number of seats in Buses D and E together is 65 .

(Total number of vacant seats in all the buses is 40)

If number of seats of bus D is 10 more than the seats of bus B. Find the number of vacant seats in Bus E.

a. 6

b. 8

c. 10

d. 5

e. 4

Reasoning Ability

66. **Direction:** Read the following information carefully and answer the given questions. (+1, -0.25)

In an organization, there are nine employees, A, B, C, D, E, F, G, H, and I work in three different departments viz. IT, HR, and Production with at least two employees and not more than three in any department, but not necessarily in the same order. No two persons with preceding or succeeding alphabetic series work in the same department. (Example: X and Y or Y and Z do not work in the same department). G works in the production department but not with D and H. B works in the IT department but not with E and I. A works in the HR department but not with C and F. Either D or C works along with B. Neither E nor F works with G.

Which of the following groups of employees work in the Production department?

- a. HBD
- b. ACE
- c. CGI
- d. Data inadequate
- e. None of these

67. **Direction:** Read the following information carefully and answer the given questions. (+1, -0.25)

In an organization, there are nine employees, A, B, C, D, E, F, G, H, and I work in three different departments viz. IT, HR, and Production with at least two employees and not more than three in any department, but not necessarily in the same order. No two persons with preceding or succeeding alphabetic series work in the same department. (Example: X

and Y or Y and Z do not work in the same department). G works in the production department but not with D and H. B works in the IT department but not with E and I. A works in the HR department but not with C and F. Either D or C works along with B. Neither E nor F works with G.

Employee H belongs to which department?

- a. IT
- b. HR
- c. Production
- d. Data inadequate
- e. None of these

68. Direction: Read the following information carefully and answer the given questions. (+1, -0.25)

In an organization, there are nine employees, A, B, C, D, E, F, G, H, and I work in three different departments viz. IT, HR, and Production with at least two employees and not more than three in any department, but not necessarily in the same order. No two persons with preceding or succeeding alphabetic series work in the same department. (Example: X and Y or Y and Z do not work in the same department). G works in the production department but not with D and H. B works in the IT department but not with E and I. A works in the HR department but not with C and F. Either D or C works along with B. Neither E nor F works with G.

Which of the following combinations is correct?

- a. IT - I
- b. HR - H
- c. Production - A

d. IT – C

e. HR – D

69. **Direction:** Read the following information carefully and answer the given questions. (+1, -0.25)

In an organization, there are nine employees, A, B, C, D, E, F, G, H, and I work in three different departments viz. IT, HR, and Production with at least two employees and not more than three in any department, but not necessarily in the same order. No two persons with preceding or succeeding alphabetic series work in the same department. (Example: X and Y or Y and Z do not work in the same department). G works in the production department but not with D and H. B works in the IT department but not with E and I. A works in the HR department but not with C and F. Either D or C works along with B. Neither E nor F works with G.

Who among the following employees work in the IT department?

a. I

b. C

c. F

d. H

e. Data inadequate

70. **Direction:** Read the following information carefully and answer the given questions. (+1, -0.25)

In an organization, there are nine employees, A, B, C, D, E, F, G, H, and I work in three different departments viz. IT, HR, and Production with at least two employees and not more than three in any department, but not necessarily in the same order. No two persons with preceding or

succeeding alphabetic series work in the same department. (Example: X and Y or Y and Z do not work in the same department). G works in the production department but not with D and H. B works in the IT department but not with E and I. A works in the HR department but not with C and F. Either D or C works along with B. Neither E nor F works with G.

Which of the following groups of employees work along with employee A?

- a. DF
- b. IC
- c. EH
- d. HD
- e. Data inadequate

71. **Directions:** In each of the following questions three statements are given and these statements are followed by two conclusions numbered I and II. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements: (+1, -0.25)

Statement:

All mango are papaya

No papaya is apple

Some papaya are watermelon

Conclusions:

I. Some apple are mango

II. Some watermelon are not papaya

- a. Only I follows
- b. Only II follows
- c. Both follow
- d. Either I or II follow
- e. None follow

72. Directions: In each of the following questions three statements are given and these statements are followed by two conclusions numbered I and II. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements: (+1, -0.25)

Statements:

Some phone are laptop

All laptop are tablet

Some tablet are headphone

Conclusions:

I. Some headphone are laptop

II. Some tablet are laptop

- a. Only I follows
- b. Only II follows
- c. Both follow

- d. Either I or II follow
 - e. None follows
-

73. Directions: In each of the following questions three statements are given **(+1, -0.25)** and these statements are followed by two conclusions numbered I and II. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements:

Statements:

All Pen are Paper

No Paper is Pencil

Some Pencil are Eraser

Conclusions:

I. Some Eraser are Paper

II. Some Pencil are Paper

- a. Only I follows
 - b. Only II follows
 - c. Both follow
 - d. Either I or II follows
 - e. None follows
-

- 74. Directions:** In each of the following questions three statements are given and these statements are followed by two conclusions numbered I and II. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements: (+1, -0.25)

Statements:

All A are B

Only a few B are C

Some C are D

Conclusions:

I. Some D are not B

II. All C are A

- a. Only I follows
- b. Only II follows
- c. Both follow
- d. Either I or II follow
- e. None follows

- 75. Directions:** In each of the following questions three statements are given and these statements are followed by two conclusions numbered I and II. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements: (+1, -0.25)

Statements:

Only notepad is book

Some paper is notepad

Conclusions:

I. All book can be paper

II. Some notepad is paper.

- a. Only I follows
- b. Only II follows
- c. Both follow
- d. Either I or II follow
- e. None follow

76. **Direction:** Read the following questions carefully and answer the questions that follows:

(+1, -0.25)

In a family M is father of S who is unmarried. S and D are sisters. T is married to N who is only brother of D. B is brother in law of N. R is the only child of N. T does not have any sibling.

How is M related to N?

- a. Father in law
- b. Father
- c. Uncle
- d. Mother in law

e. None of these

77. **Direction:** Read the following questions carefully and answer the questions that follows: (+1, -0.25)

In a family M is father of S who is unmarried. S and D are sisters. T is married to N who is only brother of D. B is brother in law of N. R is the only child of N. T does not have any sibling.

How is S related to T?

- a. Brother in law
- b. Brother
- c. Sister
- d. Sister in law
- e. None of these

78. **Direction:** Read the following questions carefully and answer the questions that follows: (+1, -0.25)

In a family M is father of S who is unmarried. S and D are sisters. T is married to N who is only brother of D. B is brother in law of N. R is the only child of N. T does not have any sibling.

How many female members in the family?

- a. Two
- b. Three
- c. Four
- d. Cannot be determined

e. None of these

79. **Directions:** Read the given information carefully and answer the questions asked below. (+1, -0.25)

Eight people A, B, C, D, E, F, G and H are sitting around a square table in such a way that four of them sit at four corners of the table while four sit in the middle of each of the four sides. People who are sitting at the corner are facing the centre while people sitting in the middle are facing outside the centre.

A sits second to the right of C. Two people sit between A and E whose immediate neighbours are facing the centre of the table. G sits opposite to H who sits immediately to the left of F. B is neither a neighbour of A nor E.

What is the position of C with respect to D?

- a. Third to the left
- b. Immediate right
- c. Second to the right
- d. Third to the right
- e. Fourth to the left

80. **Directions:** Read the given information carefully and answer the questions asked below. (+1, -0.25)

Eight people A, B, C, D, E, F, G and H are sitting around a square table in such a way that four of them sit at four corners of the table while four sit in the middle of each of the four sides. People who are sitting at the corner are facing the centre while people sitting in the middle are facing outside the centre.

A sits second to the right of C. Two people sit between A and E whose immediate neighbours are facing the centre of the table. G sits opposite to H who sits immediately to the left of F. B is neither a neighbour of A nor E.

What is false regarding F?

- a. F is an immediate neighbour of E and H
- b. F faces A
- c. F sits third to the left of G
- d. F sits second to the right of B
- e. None of these

81. **Directions:** Read the given information carefully and answer the questions asked below. (+1, -0.25)

Eight people A, B, C, D, E, F, G and H are sitting around a square table in such a way that four of them sit at four corners of the table while four sit in the middle of each of the four sides. People who are sitting at the corner are facing the centre while people sitting in the middle are facing outside the centre.

A sits second to the right of C. Two people sit between A and E whose immediate neighbours are facing the centre of the table. G sits opposite to H who sits immediately to the left of F. B is neither a neighbour of A nor E.

How many people sit between G and F when counted in an anticlockwise direction from G?

- a. Three
- b. Two

- c. None
- d. One
- e. More than three

82. Directions: Read the given information carefully and answer the questions asked below. (+1, -0.25)

Eight people A, B, C, D, E, F, G and H are sitting around a square table in such a way that four of them sit at four corners of the table while four sit in the middle of each of the four sides. People who are sitting at the corner are facing the centre while people sitting in the middle are facing outside the centre.

A sits second to the right of C. Two people sit between A and E whose immediate neighbours are facing the centre of the table. G sits opposite to H who sits immediately to the left of F. B is neither a neighbour of A nor E.

Four among the five are same in some way and thus form a group, which of the following does not belong to that group?

- a. G - E
- b. F - E
- c. G - C
- d. A - D
- e. B - D

83. Directions: Read the given information carefully and answer the questions asked below. (+1, -0.25)

Eight people A, B, C, D, E, F, G and H are sitting around a square table in such a way that four of them sit at four corners of the table while four sit in the middle of each of the four sides. People who are sitting at the corner are facing the centre while people sitting in the middle are facing outside the centre.

A sits second to the right of C. Two people sit between A and E whose immediate neighbours are facing the centre of the table. G sits opposite to H who sits immediately to the left of F. B is neither a neighbour of A nor E.

Who sits second to the right of the person who sits opposite to G?

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

84. If it is possible to make a meaningful word, using the 1st, 3rd, 9th and 11th letters of the word 'AGGREGATION', then what is the third letter from the left end of the newly formed word? If no such word be formed, mark the answer as 'Y'. If more than one word can be formed mark the answer as 'X'. (+1, -0.25)

- a. A
- b. G
- c. I
- d. Y

e. X

85. In a word 'CARBONIZE', replace each vowel with the next letter in the Alphabetical series and each consonant with the previous letter in the Alphabetical Series. How many letters occurs more than once in this newly formed word? (+1, -0.25)

a. 1

b. 2

c. 3

d. More than 3

e. None

86. In a given number 8956435251, add one in each even digit and subtract one from each odd digit. Now, what will be the multiplication of the second digit from the left and fourth digit from the right? (+1, -0.25)

a. 32

b. 48

c. 24

d. 56

e. None of the above

87. **Directions:** Read the following information carefully and answer the questions given below: (+1, -0.25)

Few person are sitting in a row facing North. L is sitting third to the right of R. M is sitting fifth to the left of P, who is an immediate neighbour of Q. S is sitting to the second to the left of H, and is not sitting at the left of A. A and M are immediate neighbours. I and L are sitting at the extreme ends of the row. Number of people sitting between Q and M is same as number of people sitting between Q and R. Only three people are sitting to the left of A. O is sitting third to the left of R. Three people are sitting between O and P. Two people are sitting between H and M.

How many people are sitting to the left of H?

a. 9

b. 11

c. 7

d. 6

e. 4

88. **Directions:** Read the following information carefully and answer the questions given below: (+1, -0.25)

Few person are sitting in a row facing North. L is sitting third to the right of R. M is sitting fifth to the left of P, who is an immediate neighbour of Q. S is sitting to the second to the left of H, and is not sitting at the left of A. A and M are immediate neighbours. I and L are sitting at the extreme ends of the row. Number of people sitting between Q and M is same as number of people sitting between Q and R. Only three people are sitting to the left of A. O is sitting third to the left of R. Three people are sitting between O and P. Two people are sitting between H and M.

How many people are sitting in the row?

a. 23

- b. 24
- c. 21
- d. 19
- e. 20

89. **Directions:** Read the following information carefully and answer the questions given below: (+1, -0.25)

Few person are sitting in a row facing North. L is sitting third to the right of R. M is sitting fifth to the left of P, who is an immediate neighbour of Q. S is sitting to the second to the left of H, and is not sitting at the left of A. A and M are immediate neighbours. I and L are sitting at the extreme ends of the row. Number of people sitting between Q and M is same as number of people sitting between Q and R. Only three people are sitting to the left of A. O is sitting third to the left of R. Three people are sitting between O and P. Two people are sitting between H and M.

Which of the following statements is true?

- a. 2 people are sitting between A and M.
- b. 3 people are sitting between Q and O.
- c. L is 7 places away from O.
- d. P is sitting seventh to the left of R.
- e. None is true

90. **Directions:** Read the following information carefully and answer the questions given below: (+1, -0.25)

Few person are sitting in a row facing North. L is sitting third to the right of R. M is sitting fifth to the left of P, who is an immediate neighbour of Q. S is sitting to the second to the left of H, and is not sitting at the left of A. A and M are immediate neighbours. I and L are sitting at the extreme ends of the row. Number of people sitting between Q and M is same as number of people sitting between Q and R. Only three people are sitting to the left of A. O is sitting third to the left of R. Three people are sitting between O and P. Two people are sitting between H and M.

What is the position of H with respect to I?

- a. Sixth to the right
- b. Fourth to the right
- c. Seventh to the right
- d. Sixth to the left
- e. Fourth to the left

91. **Directions:** Read the following information carefully and answer the questions given below: (+1, -0.25)

Few person are sitting in a row facing North. L is sitting third to the right of R. M is sitting fifth to the left of P, who is an immediate neighbour of Q. S is sitting to the second to the left of H, and is not sitting at the left of A. A and M are immediate neighbours. I and L are sitting at the extreme ends of the row. Number of people sitting between Q and M is same as number of people sitting between Q and R. Only three people are sitting to the left of A. O is sitting third to the left of R. Three people are sitting between O and P. Two people are sitting between H and M.

How many people are sitting between Q and L?

- a. Eight

- b. Nine
- c. Five
- d. Six
- e. Four

92. Directions: Study the following information carefully and answer the questions that follow. (+1, -0.25)

Six jars A, B, C, D, E and F are filled with milk, each having different quantities of milk.

C does not contain the highest quantity of milk. B has less milk than only two jars. F has more than only E. A has more milk than F but less than B. The second highest and the second lowest containing jars have 33 ltr and 17 ltr respectively.

Each jar has an odd number of liters of milk in them.

Which jar contains the highest quantity of milk?

- a. A
- b. C
- c. D
- d. B
- e. None of the above

93. Directions: Study the following information carefully and answer the questions that follow. (+1, -0.25)

Six jars A, B, C, D, E and F are filled with milk, each having different quantities of milk.

C does not contain the highest quantity of milk. B has less milk than only two jars. F has more than only E. A has more milk than F but less than B. The second highest and the second lowest containing jars have 33 ltr and 17 ltr respectively.

Each jar has an odd number of liters of milk in them.

If total milk contained by jar C and E is 48, and total milk contained by D and F is 52, what is the total quantity of milk contained by jar D and E?

- a. 46
- b. 52
- c. 50
- d. 48
- e. None of the above

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94. Directions: Study the following information carefully and answer the questions that follow. (+1, -0.25)

Six jars A, B, C, D, E and F are filled with milk, each having different quantities of milk.

C does not contain the highest quantity of milk. B has less milk than only two jars. F has more than only E. A has more milk than F but less than B. The second highest and the second lowest containing jars have 33 ltr and 17 ltr respectively.

Each jar has an odd number of liters of milk in them.

What is the possible quantity of milk that is contained by jar A?

- a. 11
- b. 19
- c. 37
- d. 13
- e. 44

95. How many pairs of letters are there in the word 'HANDICRAFT' that have the same number of letters between them in the word (in both forward and backward directions), as they have in the English alphabetical series? (+1, -0.25)

- a. 1
- b. 2
- c. 3
- d. 4
- e. More than 4

96. **Direction:** Read the following information carefully and answer the given questions. (+1, -0.25)

6 people – A, B, C, D, E and F have their event on either 13th or 20th of three different months among May, June and July but not necessarily in the same order. All of them having their event in different cities – Shimla, Shillong, Mussoorie, Punjab, Imphal and Jaipur, but not necessarily in the same order.

F's event is placed in Mussoorie. A's event is in even date and in the month having 30 days. Two persons have their events in between the person whose events are in Shimla and Imphal. E and B have their events in the same months. C's event does not take place in June. One person having the event between A and the one whose event is in Shimla. B's event is in Shillong. A's event is not placed in Jaipur. One person has the event between Imphal and D, and D's event is before A's event. E's event is not in Imphal.

- In Which of the following city, A's event takes place?

- a. Shillong
- b. Shimla
- c. Punjab
- d. Jaipur
- e. Imphal

97. **Direction:** Read the following information carefully and answer the given questions. (+1, -0.25)

6 people - A, B, C, D, E and F have their event on either 13th or 20th of three different months among May, June and July but not necessarily in the same order. All of them having their event in different cities - Shimla, Shillong, Mussoorie, Punjab, Imphal and Jaipur, but not necessarily in the same order.

F's event is placed in Mussoorie. A's event is in even date and in the month having 30 days. Two persons have their events in between the person whose events are in Shimla and Imphal. E and B have their events in the same months. C's event does not take place in June. One person having the event between A and the one whose event is in Shimla. B's event is in Shillong. A's event is not placed in Jaipur. One person has the

event between Imphal and D, and D's event is before A's event. E's event is not in Imphal.

How many people have their event between F and the one whose event is in Shimla?

- a. Two
- b. Four
- c. One
- d. Three
- e. Five

98. **Direction:** Read the following information carefully and answer the given questions. (+1, -0.25)

6 people - A, B, C, D, E and F have their event on either 13th or 20th of three different months among May, June and July but not necessarily in the same order. All of them having their event in different cities - Shimla, Shillong, Mussoorie, Punjab, Imphal and Jaipur, but not necessarily in the same order.

F's event is placed in Mussoorie. A's event is in even date and in the month having 30 days. Two persons have their events in between the person whose events are in Shimla and Imphal. E and B have their events in the same months. C's event does not take place in June. One person having the event between A and the one whose event is in Shimla. B's event is in Shillong. A's event is not placed in Jaipur. One person has the event between Imphal and D, and D's event is before A's event. E's event is not in Imphal.

Four of the five are alike in a certain way, find the one which does not belong to that group.

- a. F
- b. E
- c. B
- d. C
- e. A

99. **Direction:** Read the following information carefully and answer the given questions. (+1, -0.25)

6 people – A, B, C, D, E and F have their event on either 13th or 20th of three different months among May, June and July but not necessarily in the same order. All of them having their event in different cities – Shimla, Shillong, Mussoorie, Punjab, Imphal and Jaipur, but not necessarily in the same order.

F's event is placed in Mussoorie. A's event is in even date and in the month having 30 days. Two persons have their events in between the person whose events are in Shimla and Imphal. E and B have their events in the same months. C's event does not take place in June. One person having the event between A and the one whose event is in Shimla. B's event is in Shillong. A's event is not placed in Jaipur. One person has the event between Imphal and D, and D's event is before A's event. E's event is not in Imphal.

In a certain way, B is related to Jaipur and A is related to Shimla then in the same way D is related to whom?

- a. Imphal
- b. Shimla
- c. Punjab

d. Mussoorie

e. Jaipur

100. Direction: Read the following information carefully and answer the given questions. **(+1, -0.25)**

6 people – A, B, C, D, E and F have their event on either 13th or 20th of three different months among May, June and July but not necessarily in the same order. All of them having their event in different cities – Shimla, Shillong, Mussoorie, Punjab, Imphal and Jaipur, but not necessarily in the same order.

F's event is placed in Mussoorie. A's event is in even date and in the month having 30 days. Two persons have their events in between the person whose events are in Shimla and Imphal. E and B have their events in the same months. C's event does not take place in June. One person having the event between A and the one whose event is in Shimla. B's event is in Shillong. A's event is not placed in Jaipur. One person has the event between Imphal and D, and D's event is before A's event. E's event is not in Imphal.

On which of the following date D has his event?

a. 20th July

b. 13th June

c. 20th May

d. 13th July

e. 13th May

Answers

1. Answer: d

Explanation:

The correct answer is **option 4** i.e. **Both 1 and 3**

★ Key Points

Let's look at the following points-

- It is mentioned that- *but instead, change your mindset and embrace the opportunities technology brings and focus on the right skills to increase your employability and succeed in the new tech-savvy work scene.*
- Thus, from the abovementioned line, it is clear that ***By changing our mindset and embracing new opportunities and By focusing on the right skills*** we can increase our chances of employability and succeed in this new age
- Hence, option 4 i.e. Both 1 and 3 is correct

2. Answer: e

Explanation:

The correct answer is option 5 i.e. **None of these**

★ Key Points

Let's look at the following points-

- The given passage is about- *how Technology is affecting our Career choices*
- It is mentioned in the first para- *With new IT commodities like Netflix, iTunes and eBooks, products are moving from the tangible to the digital at an alarming rate, causing numerous stores to go out of business.*
- *Deloitte and iPhone have been mentioned elsewhere.*

- From the above mentioned line we can say that all of the given options i.e. brand/company/organization has been mentioned in the given paragraph
 - Thus, the correct option is **None of these**
-

3. Answer: d

Explanation:

The correct answer is option 4 i.e. **Technology- Boon or Bane?**

★ Key Points

Let's look at the following points-

- The given passage is on " **technology** "
- The first paragraph mentions how Technology is affecting our career choices and the negative effects of **technology** in **our lives**.
- Whereas, the second paragraph mentions **the positive impacts** of the use of modern **technology** in society
- Hence, it is clear that **Technology- Boon or Bane?** will be the most appropriate Title for the given passage

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4. Answer: c

Explanation:

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

★ Key Points

- Let's look at the meanings of the given word and marked option:
 - Plethora- a large or excessive amount of something; excess, abundance
 - **Myriad**- a very large number of something; countless, Infinite
 - Hence from the given meanings, we find that **Plethora** and **Myriad** are Synonyms of each other

- Let's look at the meanings of the other given options:
 - **Dearth**– a scarcity or lack of something.
 - **Growth**–the act or process, or a manner of growing; development; gradual increase
 - **Destruction**–the action or process of causing so much damage to something that it no longer exists or cannot be repaired.
 - **Fruition**–the realization or fulfilment of a plan or project.

★ Additional Information

- Let's look at the antonyms for the given word
 - **Myriad**– countable, limited, measurable

5. Answer: e

Explanation:

The correct answer is stubborn

★ Key Points

- Meaning of the words given in the options are:
 - **Adaptive**: characterized by or given to adaptation
 - **Elementary**: relating to the basic elements of a subject
 - **Flexible**: capable of bending easily without breaking
 - **Adoptive**: (of a child or parent) in that relationship by adoption
 - **Stubborn**: having or showing dogged determination not to change one's attitude or position on something, especially in spite of good arguments or reasons to do so
- Thus, 'stubborn' is the antonym of 'adaptive'

6. Answer: d

Explanation:

The correct answer is Both 2 and 3

★ Key Points

- **Fret over:** To feel anxious or concerned about someone or something
Example: *The doctor won't have my test results for a few days, and I'm trying not to fret over it.*
- **Brood over:** To worry anxiously or be despondent about something or someone, especially at great length and in isolation.
Example: *I know you're upset about failing your exam, but don't brood over it all weekend.*
- Thus, both options are correct.

7. Answer: e

Explanation:

The correct answer is Both 1 and 3

★ Key Points

Trawling has more than one meaning:

- **Trawling:** to pull a large, cone-shaped net through the sea at a deep level behind a special boat in order to catch fish
 - **Example:** *They trawl these waters for cod.*
- **Trawling:** to search among a large number or many different places in order to find people or information you want
 - **Examples:**
 - *The software is used to trawl for information on the internet.*
 - *You need to trawl through a lot of data to get results that are valid.*

8. Answer: b

Explanation:

The correct answer is analytical

★ Key Points

- **Optimistic:** *The tendency to expect the best and see the best in all things . There's a lot of bad stuff going on in the world today. Yet there is also a belief that the world can and will be a better place one day if we're willing to work for it. This would be an example of an **optimistic tone** .*
- **Analytical:** *The characteristic of an **analytical tone** is the presence of reasons or logic/ justifications to support something. In such passages, the author tries to analyze an issue, presenting the pros and cons, or compares two or more things and tells you why he feels something is better etc.*
- **Acerbic:** *The author reveals his disagreement with a particular theory or may express his disdain towards a person in an **acerbic** tone.*
- **Lampooning:** *When a writer or an artist makes fun of someone or something, by imitating the same thing in a funny way, it is called "**lampooning**."*
- **Descriptive:** *The **descriptive** passages just explain a particular situation in detail. The author does not present his own views and does not go into the how and why things.*
- Since the passage analyses both pros and cons of 'technology', the tone of the passage is 'analytical'.

9. Answer: d

Explanation:

The correct answer is **Option 4 i.e., ' the call will disconnect automatically ' – the error lies in this part only.**

★ Key Points

- This is a **conditional sentence**, and in this type of sentence, one sentence depends upon the other because of cause and effect.

- The given sentence talks about **a general fact that is always true**– be it in the past, present, or future.
- This type of sentence uses the **Zero Conditional** where the conditional or subordinate clause begins with 'if' or 'when' and is followed by Simple Present Tense in both subordinate and main clauses and according to this rule, the error lies in Part D.



For example– When thunderstorms and lightning occur, little John gets frightened.

- In the given sentence, **the verb 'will disconnect' in the Simple Future Tense is used instead of the Simple Present Tense 'disconnects' in the main clause.**

Hence, 'will disconnect' should be replaced by 'disconnects'.

So, the correct sentence is:

*"When you press the end call button on the phone, the call **disconnects** automatically."*



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Additional Information

- Zero conditional is used when scientific facts are stated.

For example–

When the sun shines, dewdrops melts.

- Zero conditional is the only instance when the conditional word 'if' or 'when' can be interchanged and the meaning still remains intact.

10. Answer: e

Explanation:

The correct answer is **option 5 i.e. No error.**



Key-Points

The sentence is already correct there is no error in it.

- Usage of '**Infinitive**' is correct i.e. to speak
- Usage of a '**Connector**' is correct i.e. how
- The '**main verb**' is correctly used.

Correct sentence: "My favourite teacher has taught me very well how to write and speak English and French in a very short span of time "

11. Answer: a

Explanation:

The correct answer is Option 1 i.e. A

- The error lies in the wrong order of the pronouns 'You, I and Ram' in Part A.
- The order of the personal pronouns 'You, I and Ram' should be replaced by 'You, Ram and I' because when a sentence conveys a positive idea, the order of the personal pronouns used in the sentence are- first comes the Second Person Pronoun, second is the Third Person Pronoun and last comes the First Person Pronoun.



For example- You, he and I will go to the book launch today.

- The given sentence expresses a positive thing that they went somewhere, hence, the order of the personal pronouns should be changed.

Therefore, 'You, Ram and I' should be used instead of ' You, I and Ram '.

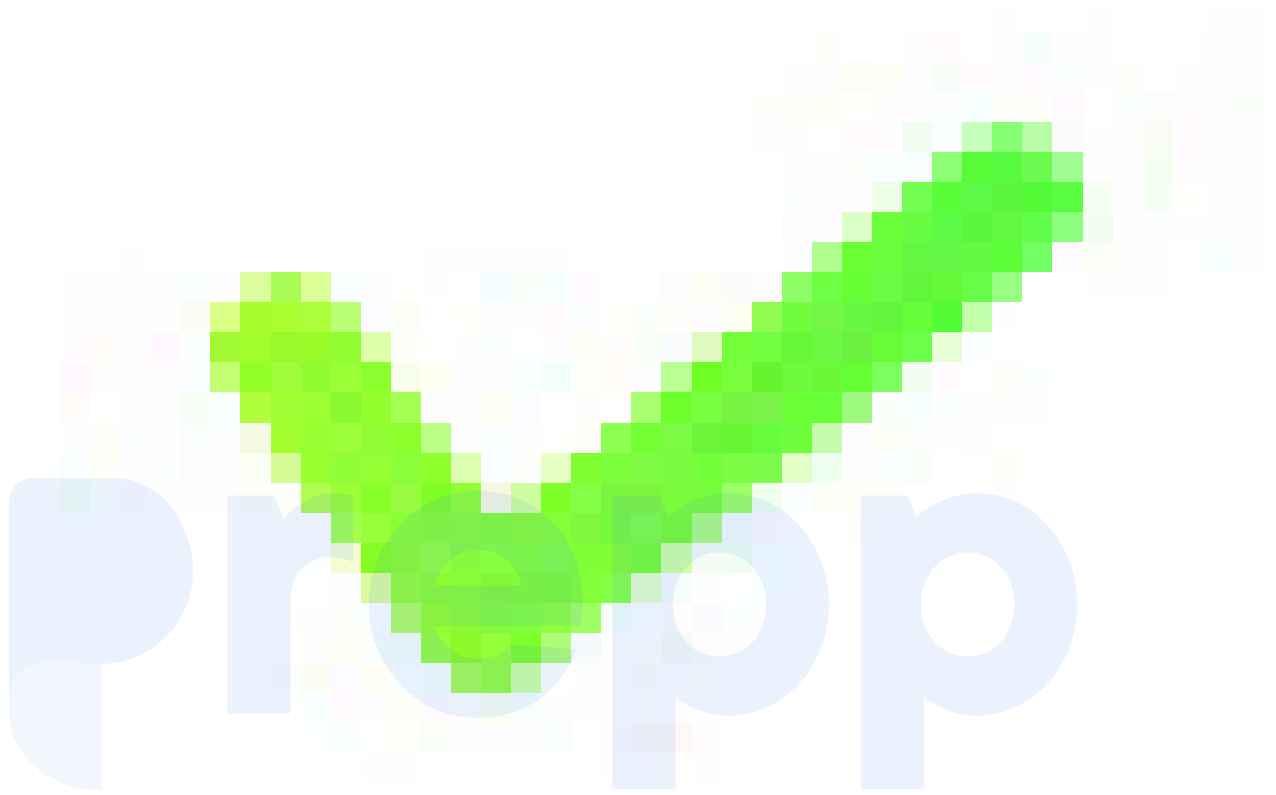
Correct sentence: *"You, Ram and I went to the market the day before yesterday where we bought this pillow."*



Mistake Points:

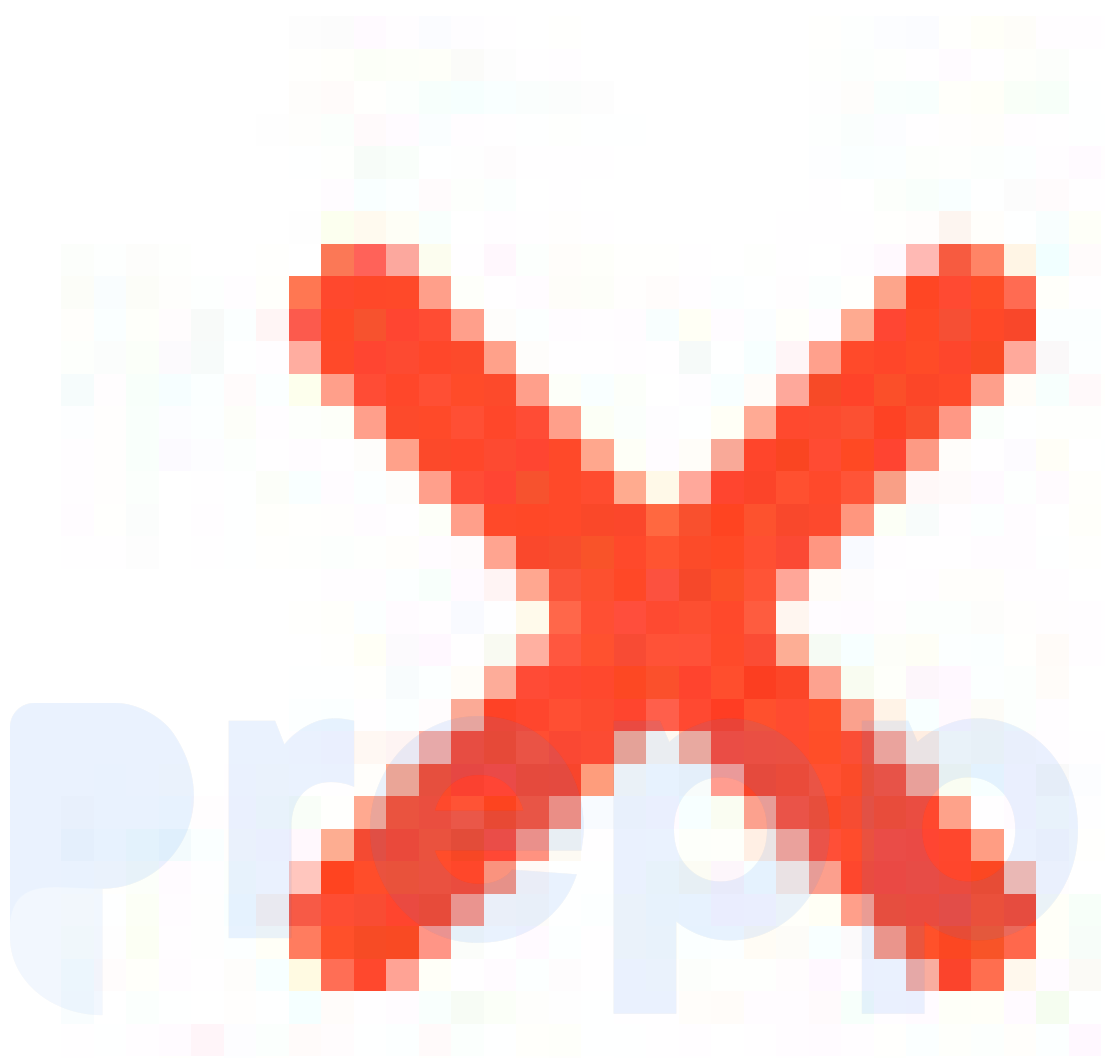
- When the sentence conveys a negative idea (especially confessing guilt), the order of the personal pronouns used in the sentence is- 1st comes the First Person Pronoun, 2nd is the Second Person Pronoun and last is the Third person pronoun.
- For example-
 - I, you and he are the cause of all the troubles that the entire neighbourhood is facing.

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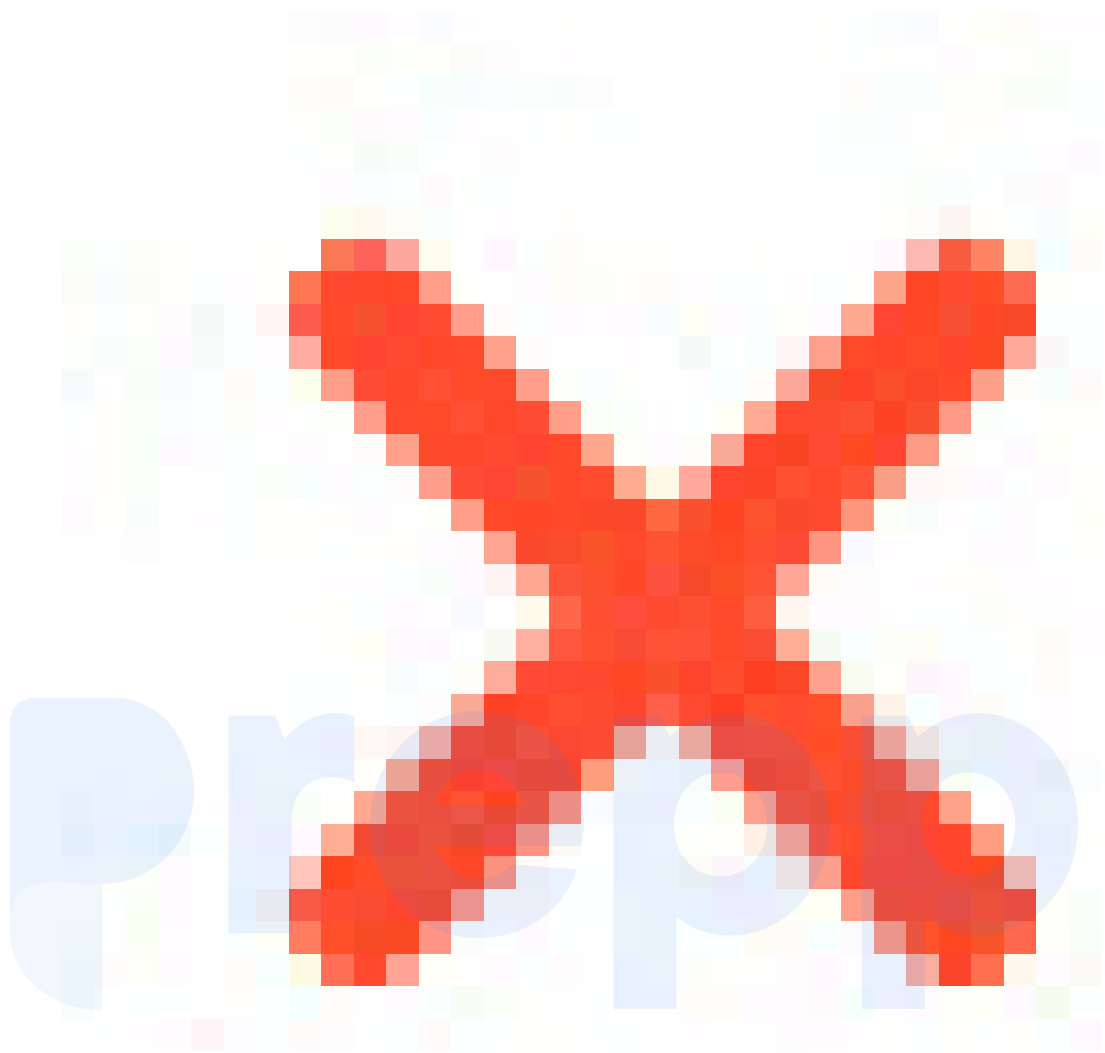
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- You, I and he are the cause of all the troubles that the entire neighbourhood is facing.



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- I, he and you are loved by the new neighbours.



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12. Answer: c

Explanation:

The correct answer is **Option 3** i.e. ' the jury gave their verdict' – the error lies in this part only.



Explanation:

- The error lies in **the wrong usage of the pronoun 'their'** in Part C.
- **The Plural Pronoun 'their' should be replaced by the Singular Pronoun 'its'** because when a Pronoun refers to a Collective Noun which is looked at as a singular entity or whole, the Pronoun should be in the Singular Number and Neuter Gender.



For example- The crew revolted and killed its messengers.

Therefore, 'its' should be used instead of 'their'.

So, the correct sentence is:

"After a long wait of almost 68 years, the jury gave its verdict on the Ayodhya feud."



Hence, **Option 3** is the correct answer.



Additional Information

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A Singular Verb is used with a Collective Noun when the collection is viewed as a whole; a Plural Verb is used when the individuals of that collection are talked about.

- **For example-**

☒The Committee has submitted its final statement on the matter.

☒The Committee are divided into their stands on the matter.

13. Answer: b

Explanation:

The correct answer is Option 2 i.e., 'he will still be getting' – the error lies in this part only.

★ Key Points

- This is a **conditional sentence**, and in this type of sentence, one sentence depends upon the other because of cause and effect.
- In this case, this type of sentence follows a special structure.
- **Conditional words** are If, even if, until, unless, as soon as, when, while, as long as, after, etc.

1. Conditional word + subject + v1/v5 + object, subject + will/ shall/ may + v1 + object.
2. If + subject + v2 + object, subject + would/ should/ could/ might + v1 + object.
3. If + subject + had + v3 + object, subject + would/ should/ could/ might + have + v3 + object.
4. Had + subject + v3 + object, subject + would + have + v3 + object.

- The given sentence follows rule number '1', and according to the rule, the error lies in Part 'B'.

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For example– Even if he skips rehearsals, the dance teacher will still favour him.

- In the given sentence, 'will still be getting' is wrongly used instead of 'will get' in the main clause.

Hence, 'will still be getting' should be replaced by 'will get'.

So, the correct sentence is:

*"Even if he loses this match, he **will still get** one more chance to enter the finale."*



14. Answer: c

Explanation:

The correct answer is **option (3) i.e. began in a rather too tremulous voice.**

★ Key Points

- The error lies in the sentence because of the wrong usage of 'fairly'.
- Fairly:
 - It means moderately sufficient.
 - It is used with a pleasant and positive degree of an adjective.
 - 'Too' is never used with it.
 - For example: She is fairly happy.
- Rather:
 - It means 'to some degree'.
 - It is used when we are expressing slight criticism, disappointment, or surprise.
 - It is mainly used with a negative and undesirable adjective.
 - For example: A rather difficult question.
- Therefore, 'fairly' should be replaced with 'rather'.

The correct sentence: *'When the crowd collected round him he seemed confused, but at the demand of the tall lad who had pushed his way up to him, he **began in a rather too tremulous voice** to read the sheet from the beginning.'*

★ Additional Information

- Usage of 'too' with 'to' is explained in the following examples:
 - The water is too hot to drink.
 - Two hours is too long to wait.
- Whenever 'too' is used with 'to' it gives a negative sense i.e. 'water is so hot that one cannot drink it'. Similarly, 'Two hours is a very long time to wait for someone'.

15. Answer: b

Explanation:

The correct answer is option 2)

★ Key Points

- *Let's have a look at the phrases given below which are used without change:*
 - *Seldom or never, seldom if ever, little or nothing, little if anything.*
- For example:
 - I seldom if never go to the park outside our society.



- I seldom or never go to the park outside our society.



- Hence in the underlined part of the given sentence, we will use 'seldom if ever' as per the rule given above.

★ Additional Information

- An adverb is a word or phrase that modifies or qualifies an adjective, verb, or other adverb or a word group.
- For example:
 - Laxman wakes up early.
 - Here 'early' qualifies the verb 'wake up'.

Correct Sentence: "Aeroplanes were seldom if ever, allowed to fly at late night during the winters of December and January due to security reasons and also safety issues at the time of landing. "

16. Answer: a

Explanation:

The correct option is 1)

★ Key Points

- The sentence ' *He's ten years old, but he still solves,* ' is ✗ incorrect
- The fact that he's ten years old is not a major contradiction of any sort, the use of 'but' is incorrect.
- In this sentence instead of 'but', we should use 'yet' *instead of 'but'*
 - The correction will be : ' *He's ten years old, yet he still solves* ' (Correct)

Correct Answer : " *He's ten years old, yet he still solves, puzzles and calculates fuzzy logics with neurologists observing that he has lots of brain activities going on in his mind and all his vitals are extremely fascinating.* "

★ Additional Information

- A conjunction joins two or more than two words, phrases, clauses or sentences.
 - Example : *Ram and Shyaam are the two robbers* (In this sentence ' and ' is the conjunction as it combines the two subjects ' *Ram* ' and ' *Shyam* ')
- If a sentence has a *mild contradiction or something that seems a bit out of the ordinary* then we use the 'yet'.
- In the case of major contradictions, we use 'but'
 - Example: *He was shot in the chest but he managed to live.* (C orrect, despite the near-death situation the person still manages to survive)

17. Answer: d

Explanation:

The correct answer is **Indulging**.

★ Key Points

Indulging : getting involved or allowing oneself to enjoy the pleasure of something

★ Additional Information

- **Attracting** : evoking (a specified reaction)
- **Interacting** : communicate or becoming involved directly
- **Participating** : taking part in an action or endeavour
- **Treating** : behaving towards or dealing with in a certain way

Hence, the correct answer is option 4.

18. Answer: e

Explanation:

The correct answer is **ghastly**.

★ Key Points

- Both the sentences talk about extreme cases.
- In the first sentence, ' **pallor** ' means an unhealthy pale appearance and options **4** or **5** can be used to describe the same.
- In the second sentence, to describe the word ' **shock** ' option **3** or **5** can be used.
- Thus **option 5** is the best fit answer for the given blanks and can mean either causing great horror or fear or extremely unwell.

★ Additional Information

The meaning of the other given words:

- **Trivial** : unimportant

- **Charming** : very pleasant
- **Unpleasant** : irritating or causing discomfort

The correct sentences are: *Her face had a **ghastly** pallor which he noticed immediately on reaching her .*

*He got a **ghastly** shock on opening the parcel .*

19. Answer: a

Explanation:

In sentence a, only using option 1 gives sense as all other options generally pertain to the human society. 'Habitation' means the fact of living in a particular place and is best fit for sentence a. 'Habitation' can also mean a house or home and this meaning is applied when it is used in sentence b. Thus option 1 is the correct answer.

20. Answer: b

Explanation:

Both the blanks need a word that should be related to smell. Options 1 and 4 are negated as they refer to negative aspects of scent and none of the sentences pertain to the same. Option 3 cannot be used in sentence b as it has already been mentioned and option 5 is not related. Option 2 which refers to a pleasant, sweet smell is the best fit word for both the blanks.

21. Answer: b

Explanation:

The correct answer is **ignite**.

★ Key Points

Ignite: to set on fire; to heat up or excite

Thus we can see that 'ignite' fits the bill perfectly for both the given blanks.

★ Additional Information

- **Arouse** : to awaken from sleep
- **Instigate** : bring about or initiate (an action or event)
- **Excite** : cause (someone) to feel very enthusiastic and eager
- **Burn** : destroy, damage, or injure by heat or fire

★ Confusion Points

*Although you may feel that 'burn' is correct- **in the first blank, using burn would be contextually and grammatically incorrect.***

22. Answer: d

Explanation:

The correct answer is A.

★ Key Points

- The **first sentence is D** because it introduces us to MCX.
- The **second sentence is A** as it is giving us additional information about MCX.
- The **third sentence is B** as it talks about the trading functions of MCX.
- The **fourth sentence is E** because it informs us about MCX's position as a leader in the global commodity exchange.
- The **last sentence is C** as it concludes the passage, giving us a time frame and concludes the passage by stating that MCX is now regulated by SEBI. So, the correct sequence is **DABEC**.
 - **D:** Multi Commodity Exchange of India Ltd (MCX) is an independent commodity exchange based in India.

- **A:** Multi Commodity Exchange of India provides live feeds for all traded commodities and these are published on various websites.
- **B:** MCX offers options trading in gold and futures trading in non-ferrous metals, bullion, energy, and a number of agricultural commodities.
- **E:** MCX was among the top global commodity exchanges in terms of the number of futures contracts trade.
- **C:** From 28 September 2015, MCX is being regulated by the Securities and Exchange Board of India (SEBI).
- The second sentence is **A**.

★ Additional Information

Provides : gives

Commodities : products or raw materials

Regulated : controlled

23. Answer: d

Explanation:

The correct answer is D.



Key-Points

- The first sentence is D because it introduces us to MCX.
- The second sentence is A as it is giving us additional information about MCX.
- The third sentence is B as it talks about the trading functions of MCX.
- The fourth sentence is E because it informs us about MCX's position as a leader in the global commodity exchange.
- The last sentence is C as it concludes the passage, giving us a time frame and concludes the passage by stating that MCX is now regulated by SEBI. So, the correct sequence is DABEC.
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- A: Multi Commodity Exchange of India provides live feeds for all traded commodities and these are published on various websites.
- B: MCX offers options trading in gold and futures trading in non-ferrous metals, bullion, energy, and a number of agricultural commodities.
- E: MCX was among the top global commodity exchanges in terms of the number of futures contracts trade.
- C: From 28 September 2015, MCX is being regulated by the Securities and Exchange Board of India (SEBI).
- The first sentence is D.



Additional Information

Provides : gives

Commodities : products or raw materials

Regulated : controlled

24. Answer: d

Explanation:

The correct answer is E.



Key-Points

- The first sentence is D because it introduces us to MCX.
- The second sentence is A as it is giving us additional information about MCX.
- The third sentence is B as it talks about the trading functions of MCX.
- The fourth sentence is E because it informs us about MCX's position as a leader in the global commodity exchange.
- The last sentence is C as it concludes the passage, giving us a time frame and concludes the passage by stating that MCX is now regulated by SEBI. So, the correct sequence is DABEC.

- D: Multi Commodity Exchange of India Ltd (MCX) is an independent commodity exchange based in India.
 - A: Multi Commodity Exchange of India provides live feeds for all traded commodities and these are published on various websites.
 - B: MCX offers options trading in gold and futures trading in non-ferrous metals, bullion, energy, and a number of agricultural commodities.
 - E: MCX was among the top global commodity exchanges in terms of the number of futures contracts trade.
 - C: From 28 September 2015, MCX is being regulated by the Securities and Exchange Board of India (SEBI).
- The fourth sentence is E.

★ Additional Information

Provides : gives

Commodities : products or raw materials

Regulated : controlled

25. Answer: c

Explanation:

The correct answer is C.



Key-Points

- The first sentence is D because it introduces us to MCX.
- The second sentence is A as it is giving us additional information about MCX.
- The third sentence is B as it talks about the trading functions of MCX.
- The fourth sentence is E because it informs us about MCX's position as a leader in the global commodity exchange.
- The last sentence is C as it concludes the passage, giving us a time frame and concludes the passage by stating that MCX is now regulated by SEBI. So, the correct sequence is DABEC.

- D: Multi Commodity Exchange of India Ltd (MCX) is an independent commodity exchange based in India.
 - A: Multi Commodity Exchange of India provides live feeds for all traded commodities and these are published on various websites.
 - B: MCX offers options trading in gold and futures trading in non-ferrous metals, bullion, energy, and a number of agricultural commodities.
 - E: MCX was among the top global commodity exchanges in terms of the number of futures contracts trade.
 - C: From 28 September 2015, MCX is being regulated by the Securities and Exchange Board of India (SEBI).
- The last sentence is **C**.

★ **Additional Information**

Provides : gives

Commodities : products or raw materials

Regulated : controlled

26. **Answer: a**

Explanation:

The correct answer is **B**.



Key-Points

- The first sentence is D because it introduces us to MCX.
- The second sentence is A as it is giving us additional information about MCX.
- The third sentence is B as it talks about the trading functions of MCX.
- The fourth sentence is E because it informs us about MCX's position as a leader in the global commodity exchange.
- The last sentence is C as it concludes the passage, giving us a time frame and concludes the passage by stating that MCX is now regulated by SEBI. So, the correct sequence is DABEC.

- D: Multi Commodity Exchange of India Ltd (MCX) is an independent commodity exchange based in India.
 - A: Multi Commodity Exchange of India provides live feeds for all traded commodities and these are published on various websites.
 - B: MCX offers options trading in gold and futures trading in non-ferrous metals, bullion, energy, and a number of agricultural commodities.
 - E: MCX was among the top global commodity exchanges in terms of the number of futures contracts trade.
 - C: From 28 September 2015, MCX is being regulated by the Securities and Exchange Board of India (SEBI).
- The third sentence is **B**.

★ Additional Information

Provides : gives

Commodities : products or raw materials

Regulated : controlled

27. Answer: d

Explanation:

The correct answer is option 4 i.e. A-D.



Explanation:

We can look at the sentence in the following way:

The _____ (A) were _____ (B) for any kind of fish as the _____ (C) of good fish had _____ (D) in recent years.

- Decreased: Past tense of 'decrease', refers to the action of becoming less in their quantity. This is a verb (an action) and thus cannot exhibit feelings of

desperation.

- Desperate: Refers to someone who shows a hopeless sense that a bad situation is impossible to deal with.
- Quantity: The amount of something (in this case, fish)
- Fishermen: Refers to people that catch fishes for a living. This part of the sentence already had a noun (fish) and thus requires a verb. The helping verb 'had' which is used before the blank indicates that it has to be followed by another verb.

Hence, we need to interchange A and D in order to make the sentence contextually correct.

So the Correct Sentence is:

*The **fishermen** were **desperate** for any kind of fish because the **quantity** of good fish had **decreased** in recent years.*

28. Answer: d

Explanation:

The correct answer is **option 4 i.e. D-A**

We can look at the sentence in the following way:

_____ (A) based on the _____ (B) of one's skin is a major _____ (C) in India and a lot of _____ (D).

- **Countries:** Plural form of 'country' which is a nation with its own government. '**Countries**' are determined through land and governance, not by colour. We need to replace it with another noun.
- **Colour:** The pigmentation of someone's skin, providing identification for their race.
- **Problem:** Some kind of difficulty, something that is seen as harmful or as unnecessary.
- **Discrimination:** The unfair treatment of someone based on the category of people they belong to. "India and a lot of other discrimination" is incorrect and

we have to replace 'discrimination' with a plural noun .

Hence, we need to **interchange D and A** in order to make the sentence contextually correct.

Correct Sentence:Discrimination (A) based on the **colour** (B) of one's skin is a major **problem** (B) in India and a lot of other **countries** .(D)

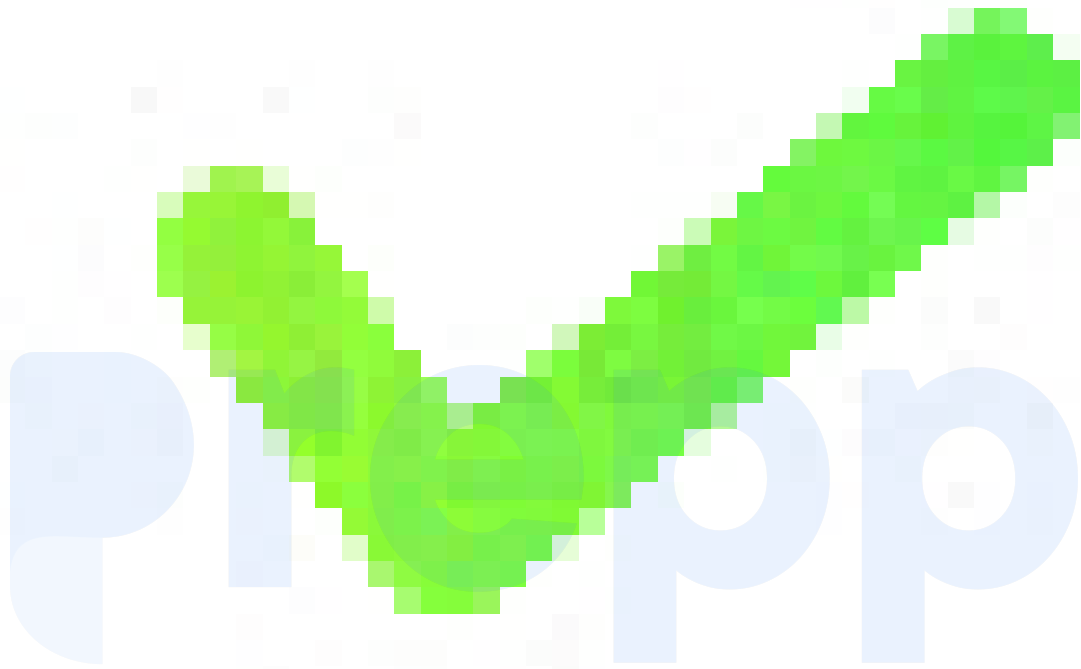
29. Answer: e

Explanation:

The correct option is 5) i.e. **All are correct**

★ Explanation

- **Idiom:** apple of discord
 - **Meaning:** a subject of contention and envy, any object or situation that causes ill-will, discontent, rift, discord, or envy among factions or individuals.
 - Example: This piece of land is an apple of discord between Sunil and Umesh as none of them wants to let go of it.
- Sentence I: *'My sister and I had fought over a piece of land causing an apple of discord a few years ago and we haven't spoken in since.'* (correct)



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A particular object ' *land* ' has caused a rift between ' *My sister and me* '

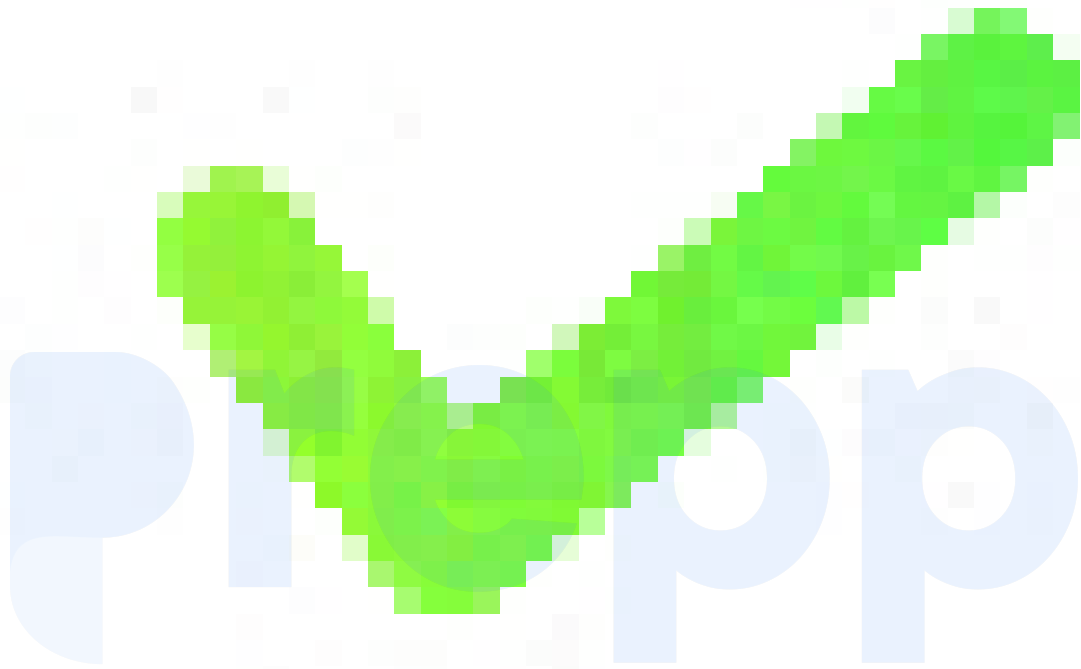
- Sentence II: ' *The "best employee" award has been an apple of discord among the co-workers for quite some time.* ' (Correct)



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correct as the award ' *best employee* ' has caused discord among ' *co-workers* '.

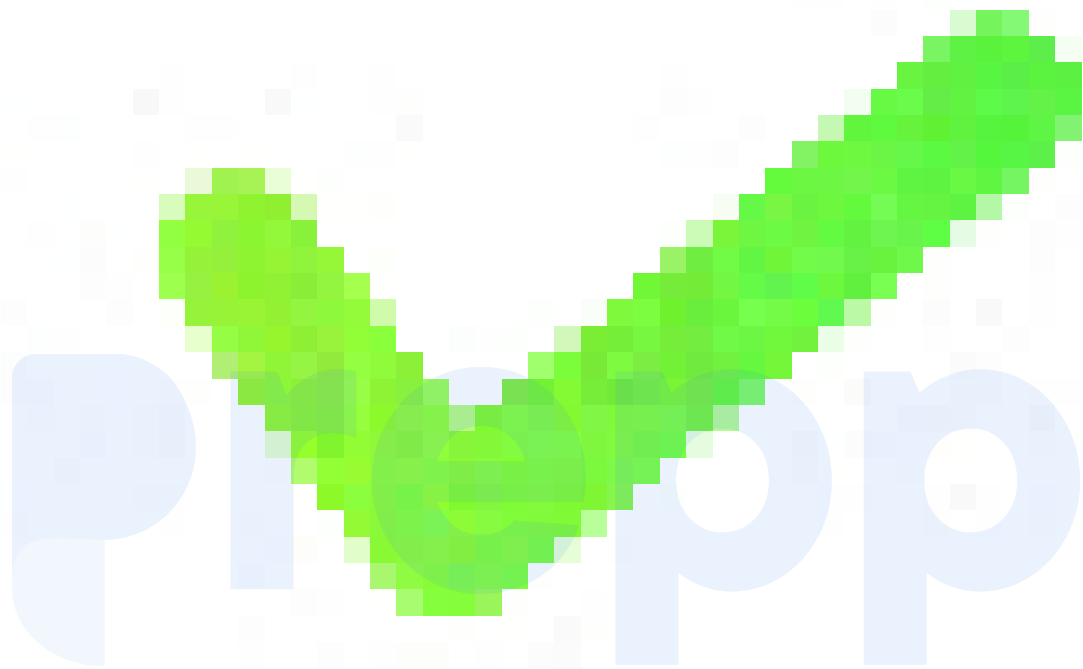
- Sentence III: *If I had known that an apple of discord would occur among villagers, I would not have told them about my new business venture* (Correct)



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It describes how the villagers are envious regarding ' *my new business venture* ' , it is in line with the idiom.

- Sentence IV: *Sharing credit for their breakthrough work became an apple of discord between the two research students.* (Correct)



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here we talk about the disagreement between two research students regarding ' *Sharing credit*'.

30. Answer: c

Explanation:

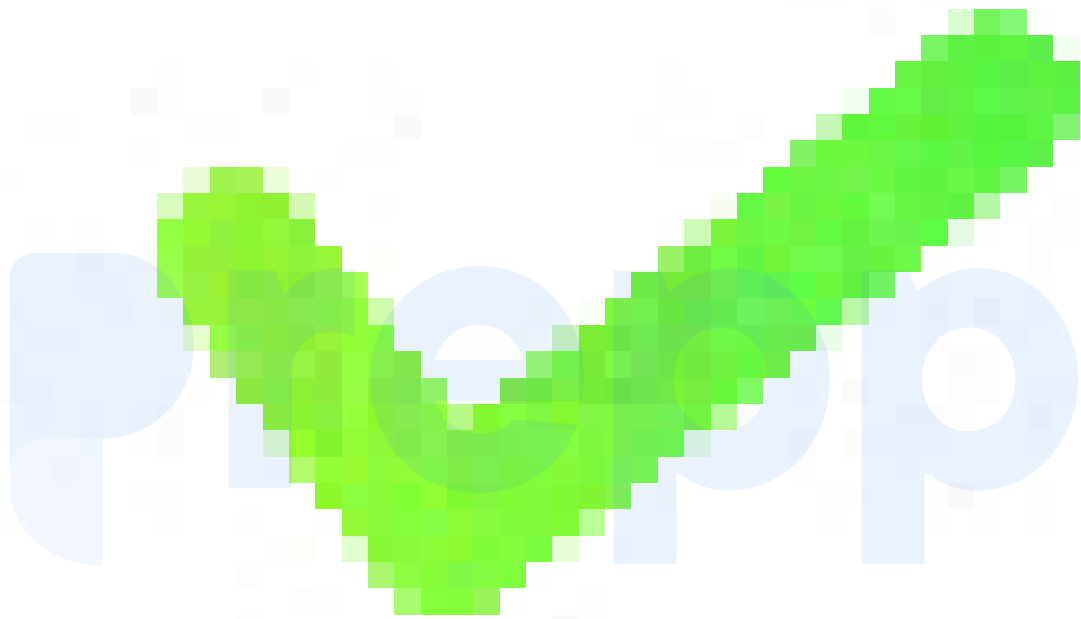
The correct option is 3) i.e. All except IV

★ Key Points

- idiom: Bolt from the blue
 - Meaning: unexpected happening; complete surprise.
 - Example: The bombardment from Indian aeroplanes was a bolt from blue on the advancing enemy soliders.
 - **Example** : The sudden uprising in many parts of the country was completely a bolt from the blue for the ministry.
- Sentence I: *The news of her husband's death in the air crash came to her like a bolt from blue . '* (Correct)

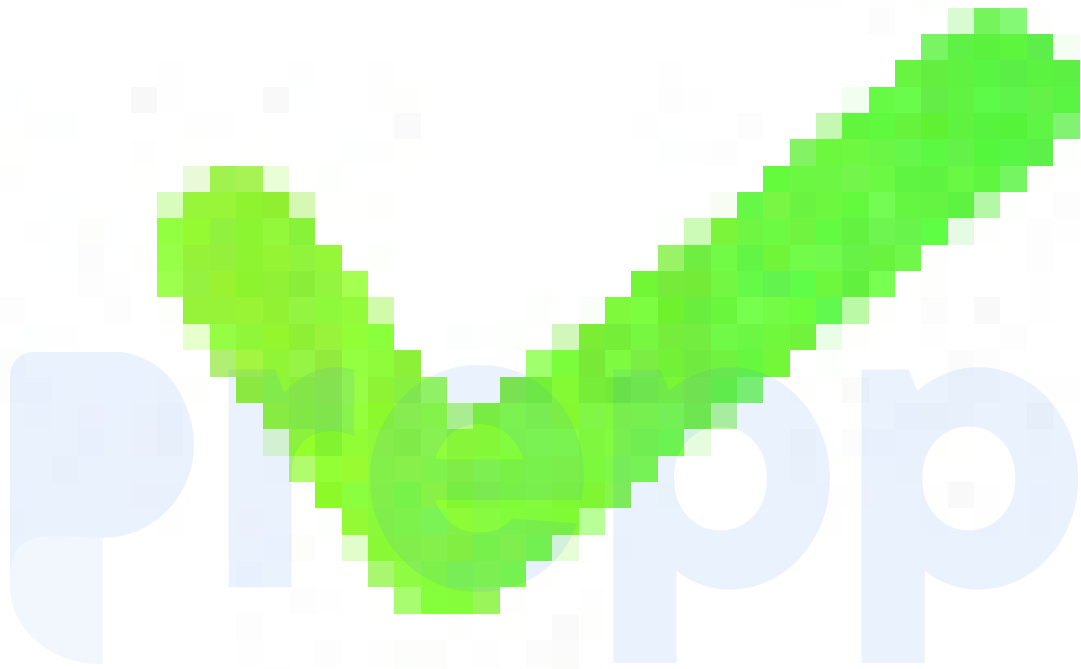


- Sentence II: *'I do not think hostilities have ever been begun except by something rather approaching a bolt from the blue.'* (Correct)



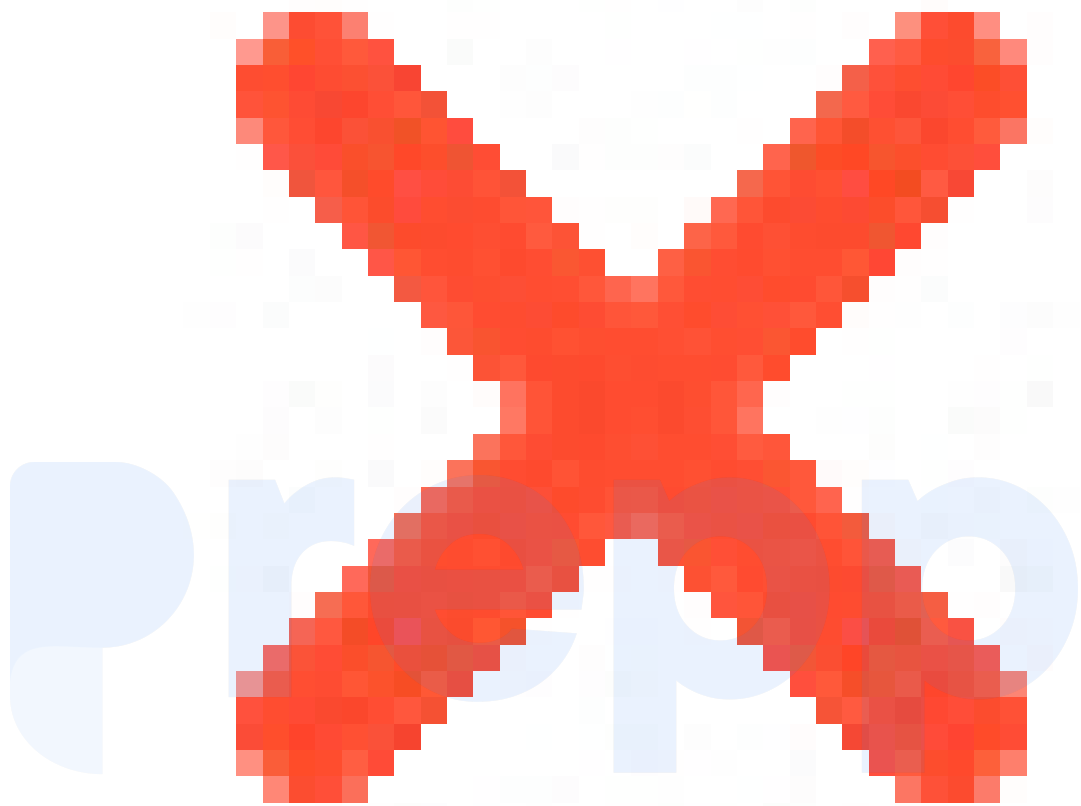
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- Sentence III: *'Developing weapons of mass destruction by North Korea came as a bolt from the blue for the world.'* (Correct)



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- **Sentence IV:** *'The blue skies were filled with dark clouds, bolts of lightning were seen all over the city.'* (Incorrect)



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as we are physically talking about a lightning strike.

- All three **I,II and,III** use 'bolt from the blue' in the sense that a sudden shock has been received by the subject.

★ Important Points

- In **sentence III** : Developing weapons of mass destruction by North Korea came as a bolt from the blue for the world
- *The* Gerunds are words that are formed with verbs but act as nouns. They're very easy to spot since every gerund is a verb with '- ing' attached to it. To find

gerunds in sentences, just look for a verb + ing that is used as a noun.

- Gerunds are formed by: (V1) + ing. and are used as a noun represented by the subject/the object in a sentence.
- Gerunds are used with: Detest, avoid, love, hate, keep, help, prevent, risk, stop, urge, understand, tolerate, encourage,
- With phrases: 'look forward to', 'accustomed to', 'prone to', 'used to', 'objected to'
 - Example: *I love swimming* (correct) 'swim' is a verb.

31. Answer: c

Explanation:

Concept:

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

B	Brackets in order {}, [], {}	ब्रैकेट {}, {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Calculation:

$$\Rightarrow 245 \div 5 + (40\% \text{ of } 1550) = 760 - ?$$

$$\Rightarrow 49 + 620 = 760 - ?$$

$$\Rightarrow 669 = 760 - ?$$

$$\Rightarrow ? = 760 - 669$$

$$\Rightarrow ? = 91$$

$\therefore$ The value of ? is 91

32. Answer: c

Explanation:

Concept:

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

B	Brackets in order (), {}, []	ब्रैकेट (), {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Calculations:

$$\Rightarrow (3/4)^2 \times 128 + 442 = ?$$

$$\Rightarrow (9/16) \times 128 + 442 = ?$$

$$\Rightarrow 9 \times 8 + 442 = ?$$

$$\Rightarrow 72 + 442 = ?$$

$$\Rightarrow 514 = ?$$

$\therefore$ The value of ? is 514

33. Answer: e

Explanation:

Concept:

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

B	Brackets in order (), {}, []	ब्रैकेट (), {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Calculations:

$$\Rightarrow \sqrt{74 + 43 \times 5} = 74 - ?$$

$$\Rightarrow \sqrt{74 + 215} = 74 - ?$$

$$\Rightarrow \sqrt{289} = 74 - ?$$

$$\Rightarrow 17 = 74 - ?$$

$$\Rightarrow ? = 57$$

34. Answer: b

Explanation:

Concept:

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

B	Brackets in order {}, {}, []	ब्रैकेट {}, {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Calculation:

$$\Rightarrow 244 - 654 + ? \div 2 = 835$$

$$\Rightarrow -410 + ? \div 2 = 835$$

$$\Rightarrow ? \div 2 = 835 + 410$$

$$\Rightarrow ? = 1245 \times 2$$

$$\Rightarrow ? = 2490$$

∴ The value of ? is 2490

35. Answer: c

Explanation:

Concept:

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

B	Brackets in order {}, {}, []	ब्रैकेट {}, {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (−)	घटाव (−)

Calculations:

$$\Rightarrow 65 - 8 + 249 = ? - 240$$

$$\Rightarrow 65 - 8 + 249 + 240 = ?$$

$$\Rightarrow 65 - 8 + 489 = ?$$

$$\Rightarrow 554 - 8 = ?$$

$$\Rightarrow ? = 546$$

36. Answer: e

Explanation:

Concept used:

B	Brackets in order {}, {}, []	ब्रैकेट {}, {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (−)	घटाव (−)

Calculations:

$$\sqrt{289} - 15\% \text{ of } 300 = ?^2 - 284$$

$$\Rightarrow 17 - 45 = ?^2 - 284$$

$$\Rightarrow -28 = ?^2 - 284$$

$$\Rightarrow ?^2 = 256$$

$$\Rightarrow ? = 16$$

∴ The value of ? is 16

37. Answer: a

Explanation:

Given:

Sum invested by A = Rs. 2800

Sum invested by B = Rs. 2100

Time for which A invested = 6 months

Time for which B invested = 12 months

Formula Used:

$$\text{Profit} = \text{Investment} \times \text{Time}$$

Calculations:

Sum invested by A = Rs. 2800

Sum invested by B = Rs. 2100

Sum invested by C = 25% of 2800

$$\Rightarrow \text{Sum invested by C} = \text{Rs. } (25/100) \times 2800$$

$$\Rightarrow \text{Sum invested by C} = \text{Rs. } 700$$

C invested after 4 months when A withdraws

$$\Rightarrow \text{Time for which C invested} = 12 - 6 - 4 = 2 \text{ months}$$

Profit ratio of

$$A : B : C = 2800 \times 6 : 2100 \times 12 : 700 \times 2$$

$$\Rightarrow A : B : C = 12 : 18 : 1$$

$$1 \text{ unit} = 930 / (12 + 18 + 1) = 30$$

$$\Rightarrow \text{B's share} = 30 \times 18 = \text{Rs. } 540$$

$\therefore$ The value of B's share is Rs. 540.

38. Answer: c**Explanation:**

Given :

A whole-seller after allowing a successive discount of 20% and 10% on the list price of a product get a profit of Rs. 120

Formula Used :

Cost price = Selling price - profit

Calculation :

List price or marked price = Rs. 1000

⇒ Selling price of product = $1000 \times (0.8) \times (0.9) = \text{Rs. } 720$

⇒ Cost price of product = $\text{Rs. } (720 - 120) = \text{Rs. } 600$

39. Answer: b

Explanation:

Given :

A bag contains four white and six black balls.

Calculation :

Probability that the first ball chosen is white = $4/10$

Probability that the second ball chosen is white = $3/9$

Probability that the third ball chosen is white = $2/8$

Probability that all are white = $4/10 \times 3/9 \times 2/8 = 1/30$

40. Answer: d

Explanation:

Given:

Time taken to row 52 km upstream and 42 km downstream = 10 hours

Time taken to row 66 km downstream and 60 km upstream = 13 hours

Formula used:

Downstream speed = Speed of boat + Speed of stream

Upstream speed = Speed of boat – Speed of stream

Calculation:

Let the speed of boat and speed of stream be x km/hr and y km/hr respectively

So, downstream speed = $(x + y)$ km/hr

Upstream speed = $(x - y)$ km/hr

According to the question,

$$\left[\frac{52}{x - y} \right] + \left[\frac{42}{(x + y)} \right] = 10$$

$$\Rightarrow 94x + 10y = 10x^2 - 10y^2 \quad \text{----(i)}$$

$$\left[\frac{66}{(x + y)} \right] + \left[\frac{60}{(x - y)} \right] = 13$$

$$\Rightarrow 126x - 6y = 13x^2 - 13y^2 \quad \text{----(ii)}$$

Now, multiplying equation (i) by 13 and equation (ii) by 10

$$1260x - 60y = 130x^2 - 130y^2 \quad \text{----(iii)}$$

$$1222x + 130y = 130x^2 - 130y^2 \quad \text{----(iv)}$$

Subtracting equation (ii) by (i)

$$38x - 190y = 0$$

$$\Rightarrow 38x = 190y$$

$$\Rightarrow x = 5y$$

Now, putting value of $x = 5y$

$$\left[\frac{52}{5y - y} \right] + \left[\frac{42}{5y + y} \right] = 10$$

$$\Rightarrow \left(\frac{52}{4y} \right) + \left(\frac{42}{6y} \right) = 10$$

$$\Rightarrow \left(\frac{13}{y} \right) + \left(\frac{7}{y} \right) = 10$$

$$\Rightarrow \left(\frac{20}{y} \right) = 10$$

$$\Rightarrow y = 2$$

Speed of man in still water = (2×5) km/hr

$$\Rightarrow 10 \text{ km/hr}$$

$\therefore$ The speed of man in still water is 10 km/hr

★ Alternate Method

Upstream	Downstream	Time
52	42	10
60	66	13

$$\text{Upstream of the man} = \left[\frac{\{(52 \times 66) - (42 \times 60)\}}{\{(66 \times 10) - (42 \times 13)\}} \right]$$

$$\Rightarrow \left(\frac{912}{114} \right) \text{ km/h} = 8 \text{ km/h}$$

$$\text{Downstream of the man} = \left[\frac{\{(52 \times 66) - (42 \times 60)\}}{\{(52 \times 13) - (60 \times 10)\}} \right]$$

$$\Rightarrow \left(\frac{912}{76} \right) \text{ km/h} = 12 \text{ km/h}$$

$$\text{So, the speed in still water} = \left\{ \left(\frac{1}{2} \right) \times (8 + 12) \right\} \text{ km/h} = 10 \text{ km/h}$$

$\therefore$ The speed of man in still water is 10 km/hr

41. Answer: e

Explanation:

Given:

Time taken to complete the work by A and B = 6 days

Time taken to complete the work if A worked for $\frac{1}{3}^{\text{rd}}$ of his efficiency and B's efficiency remains same = 10 days

Formula used:

Total work = Efficiency $\times$ Time

Calculation:

Let efficiency of A and B be A and B respectively

According to question,

$$(A + B) \times 6 = \left[\left(\frac{A}{3}\right) + B\right] \times 10$$

$$\Rightarrow (A + B) \times 3 = \left[\left(\frac{A}{3}\right) + B\right] \times 5$$

$$\Rightarrow 3A + 3B = \left(\frac{5A}{3}\right) + 5B$$

$$\Rightarrow 3A - \left(\frac{5A}{3}\right) = 5B - 3B$$

$$\Rightarrow \frac{4A}{3} = 2B$$

$$\Rightarrow 4A = 6B$$

$$\Rightarrow 2A = 3B$$

$$\Rightarrow A = 3 \text{ and } B = 2$$

$$\text{Total work} = (A + B) \times 6$$

$$\Rightarrow (3 + 2) \times 6$$

$$\Rightarrow 5 \times 6$$

$$\Rightarrow 30$$

Time taken by A alone to complete the work = $\frac{30}{3}$ days

$\Rightarrow$ 10 days

$\therefore$ Time taken by A alone to complete the work is 10 days

42. Answer: b

Explanation:

Calculation:

Total number of chocolates bought by A = $20\% \times 400$

$$\Rightarrow (20/100) \times 400$$

$$\Rightarrow 80$$

Number of sold chocolates by A = $75\% \times 80$

$$\Rightarrow (75/100) \times 80$$

$$\Rightarrow 60$$

Number of unsold chocolates by A = $(80 - 60)$

$$\Rightarrow 20$$

$\therefore$ The number of unsold chocolates by A is 20

43. Answer: a

Explanation:

Calculation:

Number of chocolates bought by B = $35\% \times 400$

$$\Rightarrow (35/100) \times 400$$

⇒ 140

Number of chocolates sold by B = $80\% \times 140$

⇒ $(80/100) \times 140$

⇒ 112

Number of chocolates bought by C = $15\% \times 400$

⇒ $(15/100) \times 400$

⇒ 60

Number of chocolates sold by C = $85\% \times 60$

⇒ 51

Number of unsold chocolates by C = $(60 - 51)$

⇒ 9

Required ratio = $112 : 9$

∴ The required ratio is $112 : 9$

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44. Answer: d

Explanation:

Calculation:

Total number of chocolates sold by A = $20\% \times 75\% \times 400$

⇒ 60

Total number of chocolates sold by C = $15\% \times 85\% \times 400$

⇒ 51

Total number of chocolates sold by A and C together = $(60 + 51)$

$\Rightarrow 111$

Number of chocolates sold by B = $35\% \times 400 \times (100 - 80)\%$

$\Rightarrow 35\% \times 400 \times 20\%$

$\Rightarrow 28$

Number of chocolates sold by D = $10\% \times 400 \times (100 - 90)\%$

$\Rightarrow 10\% \times 400 \times 10\%$

$\Rightarrow 4$

Number of chocolates sold by E = $20\% \times 400 \times (100 - 70)\%$

$\Rightarrow 20\% \times 400 \times 30\%$

$\Rightarrow 24$

Total number of unsold chocolates by B, D and E = $(28 + 4 + 24)$

$\Rightarrow 56$

Required difference = $(111 - 56)$

$\Rightarrow 55$

$\therefore$ The required difference is 55

45. Answer: c

Explanation:

Calculation:

Number of chocolates sold by D = $10\% \times 400 \times 90\%$

$$\Rightarrow (10/100) \times 400 \times (90/100)$$

$$\Rightarrow 36$$

$$\text{Number of chocolates sold by A} = 20\% \times 400 \times 75\%$$

$$\Rightarrow (20/100) \times 400 \times (75/100)$$

$$\Rightarrow 60$$

$$\text{Required percentage} = (36/60) \times 100\%$$

$$\Rightarrow 60\%$$

$\therefore$ The required percentage is 60%

46. Answer: a

Explanation:

Calculation:

$$\text{Number of chocolates bought by E} = 20\% \times 400$$

$$\Rightarrow (20/100) \times 400$$

$$\Rightarrow 80$$

$$\text{Number of chocolates bought by F} = (80 + 16)$$

$$\Rightarrow 96$$

$$\text{Number of chocolates sold by D} = 10\% \times 400 \times 90\%$$

$$\Rightarrow (10/100) \times 400 \times (90/100)$$

$$\Rightarrow 36$$

$$\text{Number of chocolates sold by F} = 36 \times (150/100)$$

⇒ 54

Required difference = $(96 - 54)$

⇒ 42

∴ The required difference is 42

47. Answer: e

Explanation:

Calculation:

Number of unsold chocolates by A = $20\% \times 400 \times (100 - 75)\%$

⇒ $20\% \times 400 \times 25\%$

⇒ $(20/100) \times 400 \times (25/100)$

⇒ 20

Number of unsold chocolates by B = $35\% \times 400 \times (100 - 80)\%$

⇒ $35\% \times 400 \times 20\%$

⇒ 28

Number of unsold chocolates by C = $15\% \times 400 \times (100 - 85)\%$

⇒ $15\% \times 400 \times 15\%$

⇒ 9

Number of unsold chocolates by D = $10\% \times 400 \times (100 - 90)\%$

⇒ $10\% \times 400 \times 10\%$

⇒ 4

Number of unsold chocolates by E = $20\% \times 400 \times (100 - 70)\%$

$$\Rightarrow 20\% \times 400 \times 30\%$$

$$\Rightarrow 24$$

Total number of unsold chocolates by A, B, C, D and E = $(20 + 28 + 9 + 4 + 24)$

$$\Rightarrow 85$$

Required percentage = $(85/400) \times 100\%$

$$\Rightarrow 21.25\%$$

$\therefore$ The required percentage is 21.25%

48. Answer: e

Explanation:

From equation I) we get,

$$3x^2 + 19x + 20 = 0$$

$$\Rightarrow 3x^2 + 15x + 4x + 20 = 0$$

$$\Rightarrow 3x(x + 5) + 4(x + 5) + 20 = 0$$

$$\Rightarrow (x + 5)(3x + 4) = 0$$

$$\therefore x = -5, -4/3$$

From equation II) we get,

$$6y^2 + 19y + 15 = 0$$

$$\Rightarrow 6y^2 + 10y + 9y + 15 = 0$$

$$\Rightarrow 2y(3y + 5) + 3(3y + 5) = 0$$

$$\Rightarrow (2y + 3)(3y + 5) = 0$$

$$\therefore y = -3/2, -5/3$$

Comparison between x and y (via Tabulation):

Value of x	Value of y	Relation
-5	-3/2	$x < y$
-5	-5/3	$x < y$
-4/3	-3/2	$x > y$
-4/3	-5/3	$x > y$

$\therefore$ The relationship between x and y cannot be established.

49. Answer: e

Explanation:

From equation I) we get,

$$x^2 = 256$$

$$x = +16, -16$$

From equation II) we get,

$$y^2 + 18y + 17$$

$$\Rightarrow y^2 + 17y + y + 17$$

$$\Rightarrow y(y + 17) + 1(y + 17)$$

$$\Rightarrow (y + 17)(y + 1)$$

$$\therefore y = -17, -1$$

Comparison between x and y (via Tabulation):

Value of x	Value of y	Relation
16	-17	$x > y$
16	-1	$x > y$
-16	-17	$x > y$
-16	-1	$x < y$

$\therefore x = y$ or the relationship between x and y cannot be established.

50. Answer: a

Explanation:

From equation I) we get,

$$x^2 - 15x + 56$$

$$\Rightarrow x^2 - 7x - 8x + 56$$

$$\Rightarrow x(x - 7) - 8(x - 7)$$

$$\Rightarrow (x - 7)(x - 8)$$

$$x = 7, 8$$

From equation II) we get,

$$y^2 + 17y + 72$$

$$\Rightarrow y^2 + 8y + 9y + 72$$

$$\Rightarrow y(y + 8) + 9(y + 8)$$

$$\Rightarrow (y + 8)(y + 9)$$

$$\therefore y = -8, -9$$

Comparison between x and y (via Tabulation):

Value of x	Value of y	Relation
7	-8	$x > y$
7	-9	$x > y$
8	-8	$x > y$
8	-9	$x > y$

$$\therefore x > y$$

51. Answer: a

Explanation:

From equation I) we get,

$$4x^2 + 13x + 9 = 0$$

$$\Rightarrow 4x^2 + 4x + 9x + 9$$

$$\Rightarrow 4x(x+1) + 9(x+1)$$

$$\Rightarrow (x+1)(4x+9)$$

$$x = -1, -9/4$$

From equation II) we get,

$$4y^2 + 20y + 25 = 0$$

$$\Rightarrow 4y^2 + 10y + 10y + 25$$

$$\Rightarrow 2y(2y+5) + 5(2y+5)$$

$$\Rightarrow (2y + 5)(2y + 5)$$

$$\therefore y = -5/2, -5/2$$

Comparison between x and y (via Tabulation):

Value of x	Value of y	Relation
-1	-5/2	$x > y$
-1	-5/2	$x > y$
-9/4	-5/2	$x > y$
-9/4	-5/2	$x > y$

$$\therefore x > y$$

52. Answer: e

Explanation:

$$\text{I. } x^2 - 14x + 33 = 0$$

$$\Rightarrow x^2 - 11x - 3x + 33 = 0$$

$$\Rightarrow x(x - 11) - 3(x - 11) = 0$$

$$\Rightarrow (x - 11)(x - 3) = 0$$

$$\text{Then, } x = 11 \text{ or } x = 3$$

Now,

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

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

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

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

Then, $y = 11$ or $y = 9$

Now,

Comparison between x and y (via Tabulation):

Value of x	Value of y	Relation
3	9	$x < y$
3	11	$x < y$
11	9	$x > y$
11	11	$x = y$

$\therefore$ We can clearly see that the relationship cannot be established

53. Answer: b

Explanation: Your Personal Exams Guide

$$\text{I. } 3x^2 - 18x + 24 = 0$$

$$\Rightarrow 3x^2 - 12x - 6x + 24 = 0$$

$$\Rightarrow 3x(x - 4) - 6(x - 4) = 0$$

$$\Rightarrow (x - 4)(3x - 6) = 0$$

$$\Rightarrow x = 4 \text{ or } 2$$

$$\text{II. } 5y^2 - 50y + 125 = 0$$

$$\Rightarrow 5y^2 - 25y - 25y + 125 = 0$$

$$\Rightarrow 5y(y - 5) - 25(y - 5) = 0$$

$$\Rightarrow (y - 5)(5y - 25) = 0$$

$$\Rightarrow y = 5$$

Comparison between x and y (via Tabulation):

Value of x	Relation	Value of y
4	<	5
2	<	5

$$\therefore x < y$$

54. Answer: c

Explanation:

Given:

Average age of 5 members 4 years ago = 21 years

Present average after a baby is born = 21 years

Formula used:

Sum of ages = Average $\times$ Number of family members

Calculation:

Total age of 5 members of family 4 years ago = 21×5 years

$\Rightarrow 105$ years

Present age of 5 members would have been = $(105 + 5 \times 4)$ years

$\Rightarrow (105 + 20)$ years

$\Rightarrow 125$ years

Now, present average of 6 members of family = (21×6) years

$\Rightarrow 126$ years

Age of baby = $(126 - 125)$ years

$\Rightarrow 1$ year

$\therefore$ The age of baby is 1 year

55. Answer: a

Explanation:

Given:

Perimeter of rectangle = 420 m

Length = Breadth + 30 m

Rate of speed = 10 m/s

Formula used:

Perimeter of rectangle = $2 \times (\text{Length} + \text{Breadth})$

Length of diagonal = $\sqrt{(\text{Length}^2 + \text{Breadth}^2)}$

Time taken = Distance/Speed

Calculation:

Let the breadth of rectangle be x meter

Then, length of rectangle = $(x + 30)$ m

Now, according to question,

$$2 \times (x + x + 30) = 420 \text{ m}$$

$$\Rightarrow 2 \times (2x + 30) = 420 \text{ m}$$

$$\Rightarrow 4x + 60 = 420 \text{ m}$$

$$\Rightarrow 4x = 360$$

$$\Rightarrow x = 90$$

Breadth = 90 m

Length = $(90 + 30)$ m

$$\Rightarrow 120 \text{ m}$$

Length of diagonal = $\sqrt{(120^2 + 90^2)}$ m

$$\Rightarrow \sqrt{(14400 + 8100)} \text{ m}$$

$$\Rightarrow \sqrt{22500} \text{ m}$$

$$\Rightarrow 150 \text{ m}$$

So, Time taken = $150/10$ seconds

$$\Rightarrow 15 \text{ seconds}$$

$\therefore$ The time taken to cross diagonally is 15 seconds

56. Answer: c

Explanation:

Given:

Total amount = Rs. 3000

Amount which man kept with himself = Rs. 250

Ratio of amount between A and B = 5 : 6

Ratio of amount between B and C = 3 : 4

Ratio of amount between C and D = 4 : 3

Calculation:

Amount which is for distribution = Rs. (3000 – 250)

⇒ Rs. 2750

According to the question,

$$A : B = (5 : 6) \times 1 = 5 : 6$$

$$B : C = (3 : 4) \times 2 = 6 : 8$$

$$C : D = (4 : 3) \times 2 = 8 : 6$$

So, A : B : C : D = 5 : 6 : 8 : 6

Now, share of C = $(8/25) \times \text{Rs. } 2750$

⇒ Rs. 880

∴ The amount what C got is Rs. 880

57. Answer: e

Explanation:

GIVEN:

For the first 2 years, $r = 4\%$ per annum, $t = 2$ years

next 4 years, $r = 6\%$ per annum, $t = 4$ years

next 3 years, $r = 8\%$ per annum, $t = 3$ years

FORMULAE USED:

$$SI = (p \times r \times t)/100$$

CALCULATION:

the simple interest for the first 2 years $= (p \times 4 \times 2)/100 = 2p/25$

the simple interest for the next 4 years $= (p \times 6 \times 4)/100 = 6p/25$

And then, for the

the simple interest for the next 3 years $= (p \times 8 \times 3)/100 = 6p/25$

$$\Rightarrow \text{Total interest} = (2p/25) + (6p/25) + (6p/25) = 14p/25$$

$$\text{So, } 14p/25 = 4480$$

$$\Rightarrow p = \text{Rs. } 8000$$

Hence, the principal amount is Rs. 8000

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58. Answer: b

Explanation:

Given:

A 30 m long train crosses a person who is walking at a speed of 8 km/hr in the opposite direction in 8 seconds. The train passes another person in 3 seconds who was walking in the same direction as the first person.

Concept Used:

If two objects are moving in the opposite direction to each other their relative speed = sum of their speed

Distance = Time $\times$ Speed

Calculation:

Let, the speed of the train is x m/s

Speed of the 1st person is 8 km/hr

$$\Rightarrow 8 \times \frac{5}{18} \text{ m/s}$$

$$\Rightarrow \frac{20}{9} \text{ m/s}$$

The man is walking in the opposite direction of the train.

$$\Rightarrow \text{The relative speed is } (x + \frac{20}{9}) \text{ m/s}$$

$$\Rightarrow \frac{(9x + 20)}{9} \text{ m/s}$$

Accordingly,

$$8 \times \frac{(9x + 20)}{9} = 30$$

$$\Rightarrow 72x + 160 = 270$$

$$\Rightarrow 72x = 110$$

$$\Rightarrow x = \frac{110}{72}$$

$$\Rightarrow x = \frac{55}{36}$$

Speed of the train is $\frac{55}{36}$ m/s

The direction of the 2nd person is same as the 1st person, that means he is also in the opposite direction of the train

Let, the speed of the 2nd person is y m/s

Relative speed is $(\frac{55}{36} + y)$ m/s

Accordingly,

$$3 \times (\frac{55}{36} + y) = 30$$

$$\Rightarrow 55/12 + 3y = 30$$

$$\Rightarrow 3y = 30 - 55/12$$

$$\Rightarrow 3y = 305/12$$

$$\Rightarrow y = 305/36$$

Speed of the second person is $305/36$ m/s

$$\Rightarrow (305/36) \times (18/5) \text{ km/hr} \quad [\because 1 \text{ km} = 1000 \text{ m and } 1 \text{ hr} = 3600 \text{ secnd}]$$

$$\Rightarrow 30.5 \text{ km/hr}$$

$\therefore$ The speed of the second person is 30.5 km/hr.

★ Shortcut Trick

$$\text{The speed of train} = 30/8 - 8 \times 5/18 = 110/72$$

$$\text{The speed of second person} = 30/3 - 110/72 = 610/72 \times 18/5 = 30.5$$

$\therefore$ The speed of the second person is 30.5 km/hr.

59. Answer: d

Explanation:

Let the two alloys be mixed in the ratio of x:y

$\therefore$ Brass and Aluminum content in mixture from Alloy X will be $(8x/17)$ and $(9x/17)$ respectively.

Similarly, Brass and Aluminum content in mixture from alloy Y will be $(y/7)$ and $(6y/7)$ respectively.

$$\Rightarrow \text{Total Brass content in mixture} = (8x/17) + (y/7)$$

$$\Rightarrow \text{Total Aluminum content in mixture} = (9x/17) + (6y/7)$$

According to the condition given in the problem, Brass content in mixture = 25%

$\therefore$ Aluminum content in mixture = $100 - 25 = 75\%$

Ratio of Brass to Aluminium in the final mixture = $25 : 75 = 1:3$

$$\therefore [(8x/17) + (y/7)] / [(9x/17) + (6y/7)] = 1 / 3$$

$$\Rightarrow 3 \times [(8x/17) + (y/7)] = [(9x/17) + (6y/7)]$$

$$\Rightarrow [(24x/17) + (3y/7)] = [(9x/17) + (6y/7)]$$

$$\Rightarrow x \times [(24/17) - (9/17)] = y \times [(6/7) - (3/7)]$$

$$\Rightarrow (15/17)x = (3/7)y$$

$$\Rightarrow x/y = 17/35$$

$$\therefore x : y = 17 : 35$$

★ Alternate Method

1.

Let the quantity of the first mixture be x and the second mixture be y .

Quantity of brass in the first mixture = $8x/17$

Quantity of brass in the second mixture = $y/7$

Quantity of mixture in resultant mixture = $(1/4) \times (x + y)$

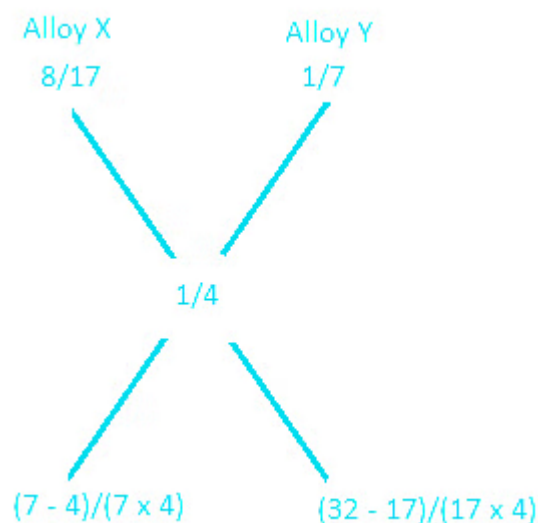
$$\text{Then, } 8x/17 + y/7 = (1/4) \times (x + y)$$

$$\text{Or, } 15x/(17 \times 4) = 3y/(7 \times 4)$$

$$\text{Then, } x/y = 17/35.$$

2.

Let us try allegation method to solve the question.



The ratio in which the alloys are mixed = $\frac{3}{(7 \times 4)} : \frac{15}{(17 \times 4)}$

$$\Rightarrow \frac{1}{7} : \frac{5}{17} = 17 : 35$$

$\therefore$ The two alloys should be mixed in the ratio of 17 : 35

60. Answer: a

Explanation:

Bus	Total number of seats	Percentage of seats filled	Filled Seats	Vacant Seats
A	40	75%	30	10
B	25	84%	21	4
C	50	88%	44	6
D	35	60%	21	14
E	30	80%	24	6

Filled Seats = Total number of seats $\times$ Percentage of seats filled

Vacant Seats = Total number of seats – Filled Seats

Individual solution:

The required percentage = $(10 - 6)/10 \times 100 = 40 \%$

∴ The number of vacant seat of bus C is 40% less than the number of vacant seat of bus A

61. Answer: e

Explanation:

Bus	Total number of seats	Percentage of seats filled	Filled Seats	Vacant Seats
A	40	75%	30	10
B	25	84%	21	4
C	50	88%	44	6
D	35	60%	21	14
E	30	80%	24	6

Individual solution:

The ratio = $14 : 6 = 7 : 3$

★ Hint

B filled seat = $25 \times 84\% = 21$

E filled seats = $21 + 3 = 24$

$24 = 80 \%$

Then, $100\% = 30$

$$D + E = 65 \text{ (GIVEN)}$$

$$D = 65 - 30 = 35$$

$$D \text{ filled} = 35 \times 60/100 = 21$$

62. Answer: d

Explanation:

Bus	Total number of seats	Percentage of seats filled	Filled Seats	Vacant Seats
A	40	75%	30	10
B	25	84%	21	4
C	50	88%	44	6
D	35	60%	21	14
E	30	80%	24	6
F	100	60%	60	40

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63. Answer: c

Explanation:

Bus	Total number of seats	Percentage of seats filled	Filled Seats	Vacant Seats
A	40	75%	30	10
B	25	84%	21	4
C	50	88%	44	6
D	35	60%	21	14
E	30	80%	24	6

Calculation:

The average = $30 + 21 + 44 + 21 + 24 / 5 = 140 / 5 = 28$

∴ The average number of filled seats in all buses is 28

64. Answer: b

Explanation:

Bus	Total number of seats	Percentage of seats filled	Filled Seats	Vacant Seats
A	40	75%	30	10
B	25	84%	21	4
C	50	88%	44	6
D	35	60%	21	14
E	30	80%	24	6

65. Answer: a

Explanation:

Bus	Total number of seats	Percentage of seats filled	Filled Seats	Vacant Seats
A	40	75%	30	10
B	25	84%	21	4
C	50	88%	44	6
D	35	60%	21	14
E	30	80%	24	6

66. Answer: c

Explanation:

Answer:- (3)

There are nine employees, A, B, C, D, E, F, G, H, and I.

Those are working in three different departments viz. IT, HR, and Production.

1. G works in the production department but not with D and H.

2. B works in the IT department but not with E and I.

Department	Employee
IT	B
HR	A
Production	G

3. A works in the HR department but not with C and F.

4. Either D or C works along with B.

(No two persons with preceding or succeeding alphabetic series work in the same department.)

So, D works with B.

Department	Employee
IT	B, D
HR	A
Production	G

5. Neither E nor F works with G.

6. A works in the HR department but not with C and F.

So, F works in the IT department.

Department	Employee
IT	B, D, F
HR	A
Production	G

7. Neither E nor F works with G.

8. A works in the HR department but not with C and F.

So, E works in the HR department and C works in the production department.

Department	Employee
IT	B, D, F
HR	A, E
Production	G, C

9. No two persons with preceding or succeeding alphabetic series work in the same department.

So, the final arrangement is,

Department	Employee
IT	B, D, F
HR	A, E, H
Production	G, C, I

Hence, employees C, G, I work in the Production department.

67. Answer: b

Explanation:

Answer:- (2)

There are nine employees, A, B, C, D, E, F, G, H, and I.

Those are working in three different departments viz. IT, HR, and Production.

1. G works in the production department but not with D and H.

2. B works in the IT department but not with E and I.

Department	Employee
IT	B
HR	A
Production	G

3. A works in the HR department but not with C and F.

4. Either D or C works along with B.

(No two persons with preceding or succeeding alphabetic series work in the same department.)

So, D works with B.

Department	Employee
IT	B, D
HR	A
Production	G

5. Neither E nor F works with G.

6. A works in the HR department but not with C and F.

So, F works in the IT department.

Department	Employee
IT	B, D, F
HR	A
Production	G

7. Neither E nor F works with G.

8. A works in the HR department but not with C and F.

So, E works in the HR department and C works in the production department.

Department	Employee
IT	B, D, F
HR	A, E
Production	G, C

9. No two persons with preceding or succeeding alphabetic series work in the same department.

So, the final arrangement is,

Department	Employee
IT	B, D, F
HR	A, E, H
Production	G, C, I

Hence, H belongs to **HR department**.

68. Answer: b

Explanation:

Answer:- (2)

There are nine employees, A, B, C, D, E, F, G, H, and I.

Those are working in three different departments viz. IT, HR, and Production.

1. G works in the production department but not with D and H.

2. B works in the IT department but not with E and I.

Department	Employee
IT	B
HR	A
Production	G

3. A works in the HR department but not with C and F.

4. Either D or C works along with B.

(No two persons with preceding or succeeding alphabetic series work in the same department.)

So, D works with B.

Department	Employee
IT	B, D
HR	A
Production	G

5. Neither E nor F works with G.

6. A works in the HR department but not with C and F.

So, F works in the IT department.

Department	Employee
IT	B, D, F
HR	A
Production	G

7. Neither E nor F works with G.

8. A works in the HR department but not with C and F.

So, E works in the HR department and C works in the production department.

Department	Employee
IT	B, D, F
HR	A, E
Production	G, C

9. No two persons with preceding or succeeding alphabetic series work in the same department.

So, the final arrangement is,

Department	Employee
IT	B, D, F
HR	A, E, H
Production	G, C, I

Hence, **HR – H** is the correct combination.

69. **Answer: c**

Explanation:

Answer:- (3)

There are nine employees, A, B, C, D, E, F, G, H, and I.

Those are working in three different departments viz. IT, HR, and Production.

1. G works in the production department but not with D and H.
2. B works in the IT department but not with E and I.

Department	Employee
IT	B
HR	A
Production	G

3. A works in the HR department but not with C and F.

4. Either D or C works along with B.

(No two persons with preceding or succeeding alphabetic series work in the same department.)

So, D works with B.

Department	Employee
IT	B, D
HR	A
Production	G

5. Neither E nor F works with G.

6. A works in the HR department but not with C and F.

So, F works in the IT department.

Department	Employee
IT	B, D, F
HR	A
Production	G

7. Neither E nor F works with G.

8. A works in the HR department but not with C and F.

So, E works in the HR department and C works in the production department.

Department	Employee
IT	B, D, F
HR	A, E
Production	G, C

9. No two persons with preceding or succeeding alphabetic series work in the same department.

So, the final arrangement is,

Department	Employee
IT	B, D, F
HR	A, E, H
Production	G, C, I

Hence, F works in IT department.

70. Answer: c

Explanation:

Answer:- (3)

There are nine employees, A, B, C, D, E, F, G, H, and I.

Those are working in three different departments viz. IT, HR, and Production.

1. G works in the production department but not with D and H.

2. B works in the IT department but not with E and I.

Department	Employee
IT	B
HR	A
Production	G

3. A works in the HR department but not with C and F.

4. Either D or C works along with B.

(No two persons with preceding or succeeding alphabetic series work in the same department.)

So, D works with B.

Department	Employee
IT	B, D
HR	A
Production	G

5. Neither E nor F works with G.

6. A works in the HR department but not with C and F.

So, F works in the IT department.

Department	Employee
IT	B, D, F
HR	A
Production	G

7. Neither E nor F works with G.

8. A works in the HR department but not with C and F.

So, E works in the HR department and C works in the production department.

Department	Employee
IT	B, D, F
HR	A, E
Production	G, C

9. No two persons with preceding or succeeding alphabetic series work in the same department.

So, the final arrangement is,

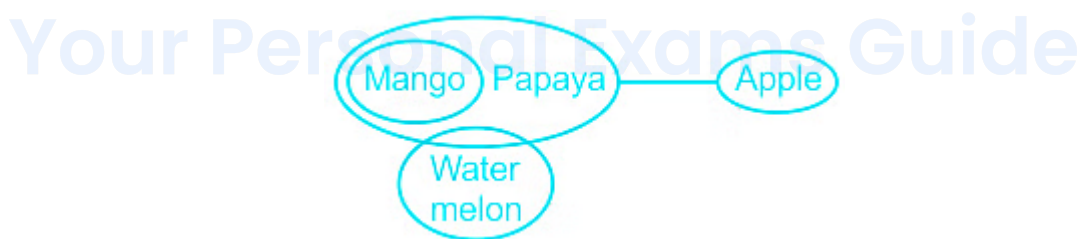
Department	Employee
IT	B, D, F
HR	A, E, H
Production	G, C, I

Hence, Employees **E and H** works with Employee A.

71. Answer: e

Explanation:

The solution will be added soon. The solution will be made available after 6 PM, 7th Jan.



Conclusions:

I. Some apple are mango → False (All mango are papaya and No papaya is apple. So, apple cannot be mango)

II. Some watermelon are not papaya → False (As given some watermelon are papaya. So negative conclusion not follow)

Hence, **None of the conclusion are follow.**

72. Answer: b

Explanation:

The solution will be added soon. The solution will be made available after 6 PM, 7th Jan.



Conclusions:

I. Some headphone are laptop → False (No direct relation between laptop and headphone)

II. Some tablet are laptop → True (As some part of tablet is laptop)

Hence, **Only conclusion II follows.**

73. Answer: e

Explanation:

The minimum possible Venn diagram of the given information is as follows:



Conclusions:

I. Some Eraser are Paper → **False** (As Some Eraser are not Paper and Some Eraser are Paper whether it is true or not. it is possible but not definite. So, it is false)

II. Some pencil are paper → **False** (As No Paper is Pencil → Some Pencil can never be Paper. So, it is false)

Hence, **None follows**.

74. Answer: e

Explanation:

The solution will be added soon. The solution will be made available after 6 PM, 7th Jan.



Conclusions:

I. Some D are not B → False (There is no direct relation between D and B)

II. All C are A → False (There is no direct relation between A and C)

Hence, **None of the conclusion are follow.**

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75. Answer: b

Explanation:

The solution will be added soon. The solution will be made available after 6 PM, 7th Jan.



Conclusions:

I. All book can be paper → False (As Only notepad is book. So All book can not be paper)

II. Some notepad is paper → True (As some paper is notepad. So, some notepad is paper)

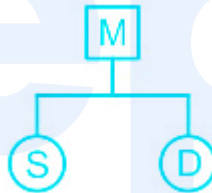
Hence, **Only conclusion II follow.**

76. Answer: b

Explanation:

1) M is father of S who is unmarried.

2) S and D are sisters.

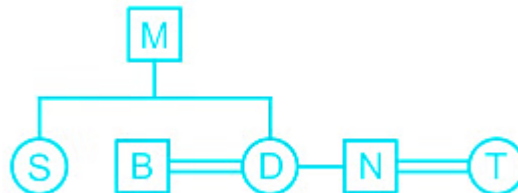


3) T is married to N who is only brother of D.

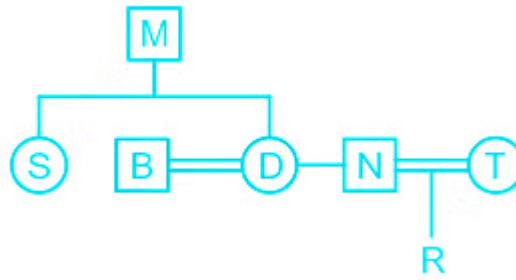


4) B is brother in law of N.

5) T does not have any sibling.



6) R is the only child of N.



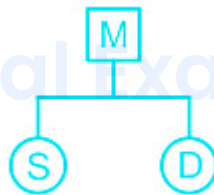
Hence, **M is father of N.**

The solution will be added soon. The solution will be made available after 6 PM, 7th Jan.

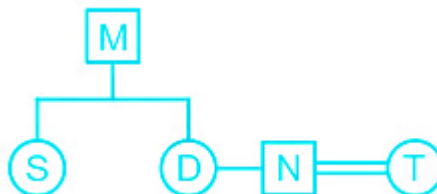
77. Answer: d

Explanation:

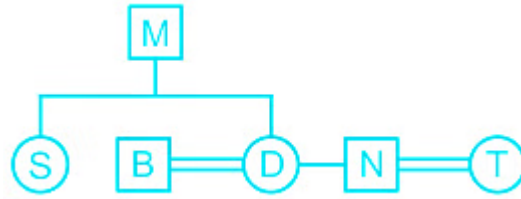
- 1) M is father of S who is unmarried.
- 2) S and D are sisters.



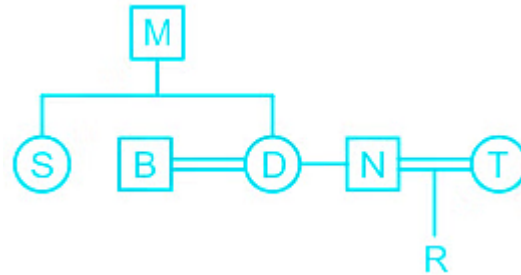
- 3) T is married to N who is only brother of D.



- 4) B is brother in law of N.
- 5) T does not have any sibling.



6) R is the only child of N.



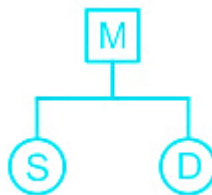
Hence, **S is sister in law of T.**

The solution will be added soon. The solution will be made available after 6 PM, 7th Jan.

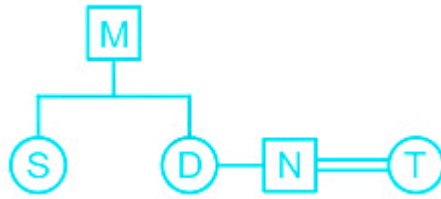
78. Answer: d

Explanation:

- 1) M is father of S who is unmarried.
- 2) S and D are sisters.

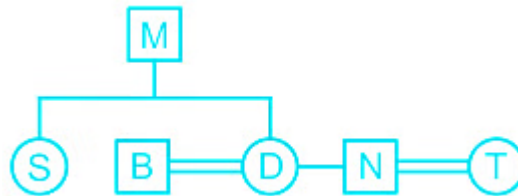


3) T is married to N who is only brother of D.

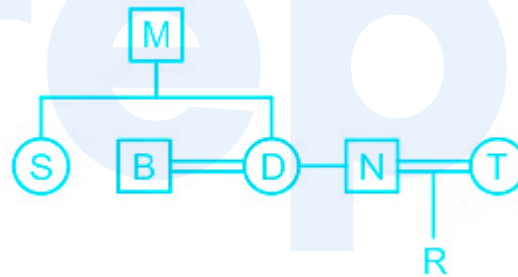


4) B is brother in law of N.

5) T does not have any sibling.



6) R is the only child of N.



Gender of R is not known. So, number of female member not determined.

Hence, **answer is cannot be determined.**

The solution will be added soon. The solution will be made available after 6 PM, 7th Jan.

79. Answer: d

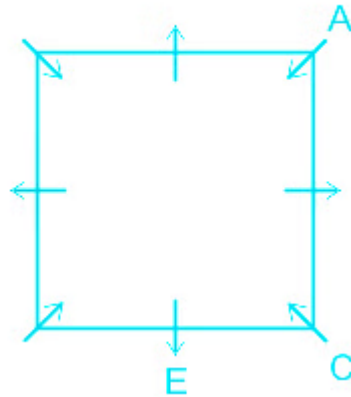
Explanation:

Answer: (4)

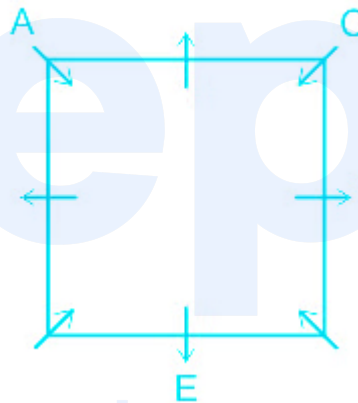
(1) A sits second to the right of C.

(2) Two people sit between A and E whose immediate neighbors are facing the center of the table.

Case 1

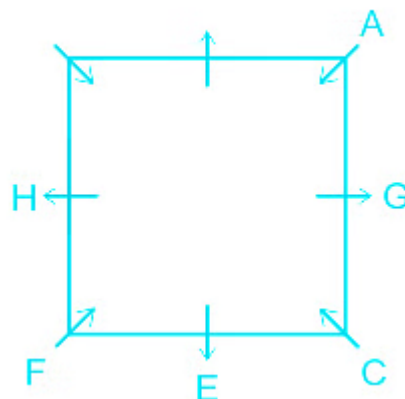


Case2

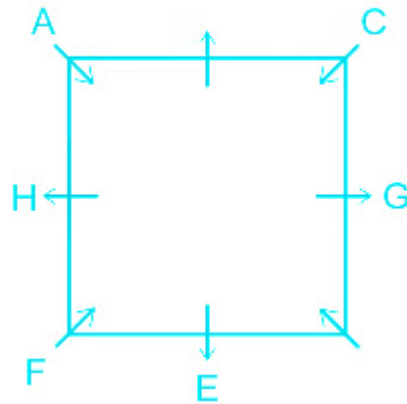


(3) G sits opposite to H who sits immediately to the left of F.

Case 1

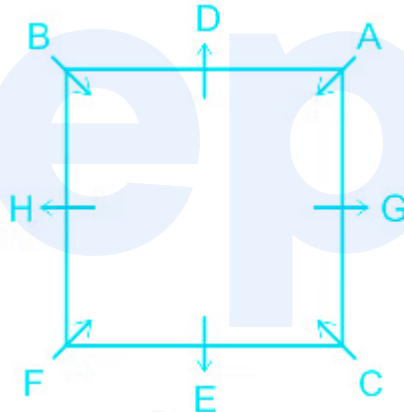


Case 2



(4) B is neither a neighbor of A nor E. Case II eliminates here.

Thus the final arrangement is,



Hence, C sits third to the right of D.

80. Answer: c

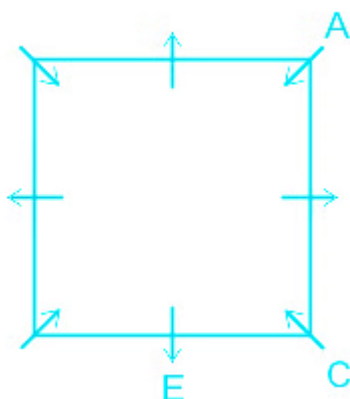
Explanation:

Answer: (3)

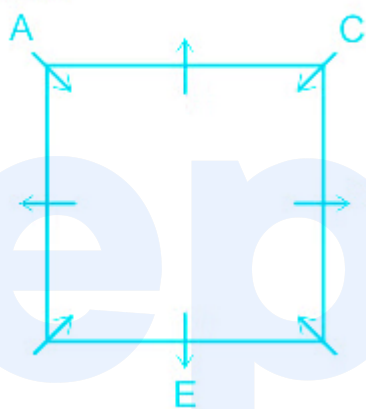
(1) A sits second to the right of C.

(2) Two people sit between A and E whose immediate neighbors are facing the center of the table.

Case 1

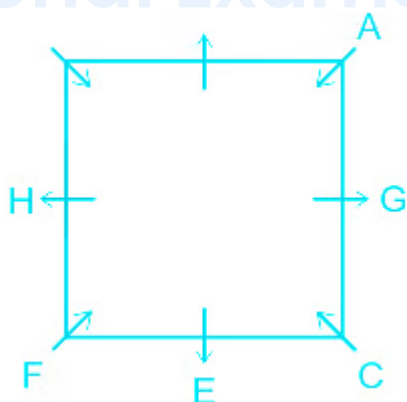


Case2

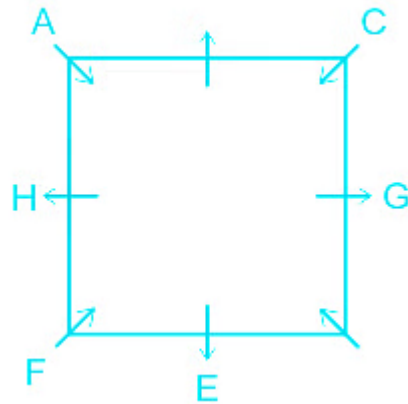


(3) G sits opposite to H who sits immediately to the left of F.

Case 1

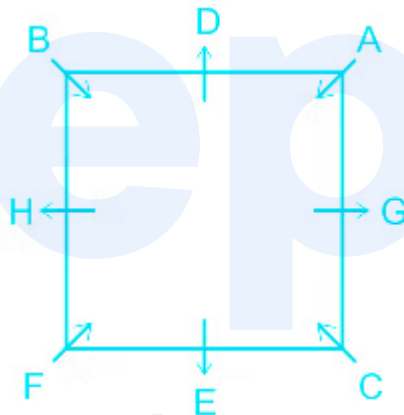


Case 2



(4) B is neither a neighbour of A nor E. Case II eliminates here.

Thus the final arrangement is,



Hence, F is sitting third to the left of G is false.

81. Answer: e

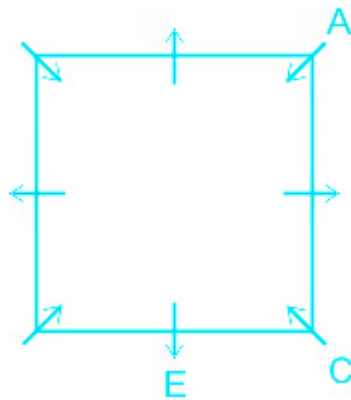
Explanation:

Answer: (5)

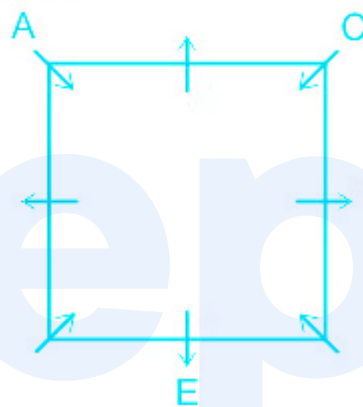
(1) A sits second to the right of C.

(2) Two people sit between A and E whose immediate neighbors are facing the center of the table.

Case 1

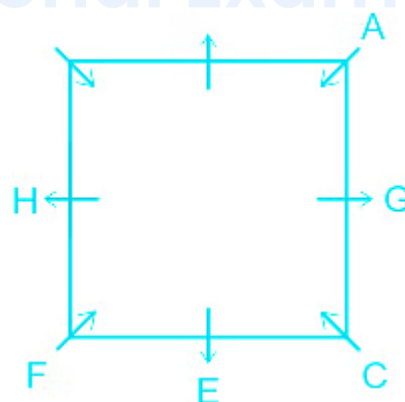


Case2

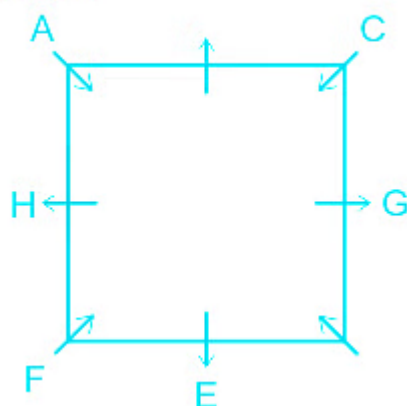


(3) G sits opposite to H who sits immediately to the left of F.

Case 1

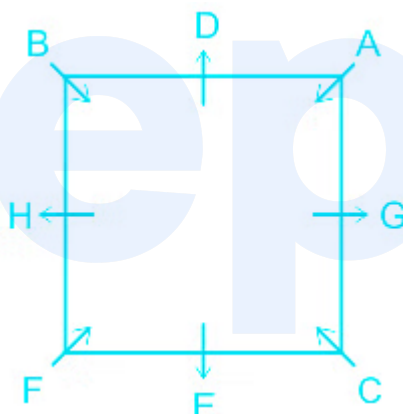


Case 2



(4) B is neither a neighbour of A nor E. Case II eliminates here.

Thus the final arrangement is,



Hence, **More than three** is the correct answer.

82. Answer: a

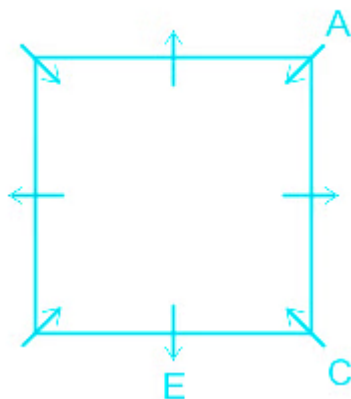
Explanation:

Answer: (1)

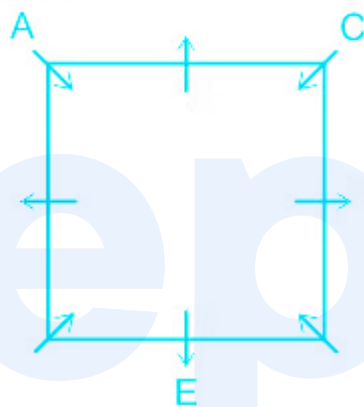
(1) A sits second to the right of C.

(2) Two people sit between A and E whose immediate neighbors are facing the center of the table.

Case 1

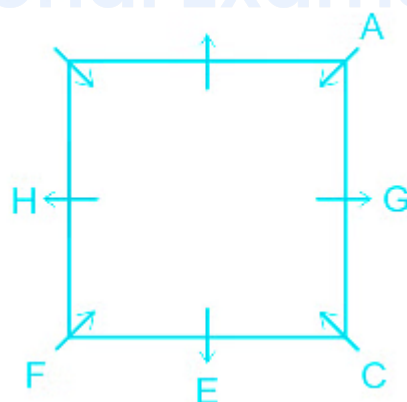


Case2

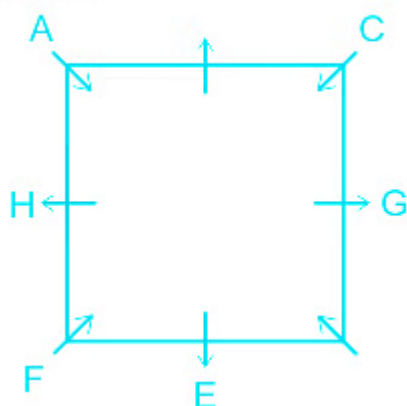


(3) G sits opposite to H who sits immediately to the left of F.

Case 1

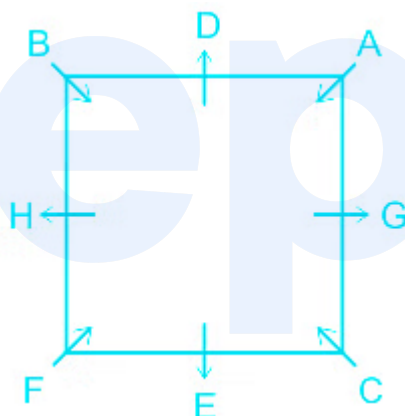


Case 2



(4) B is neither a neighbor of A nor E. Case II eliminates here.

Thus the final arrangement is,



We can see that all are immediate neighbor of each other except G - E.

Hence, G - E does not belong to the group.

83. Answer: b

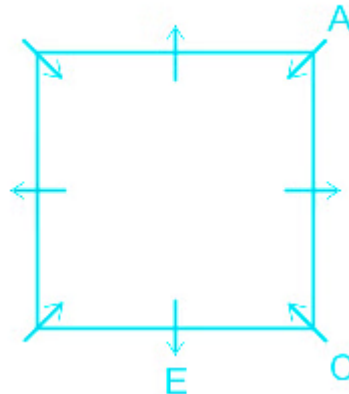
Explanation:

Answer: (2)

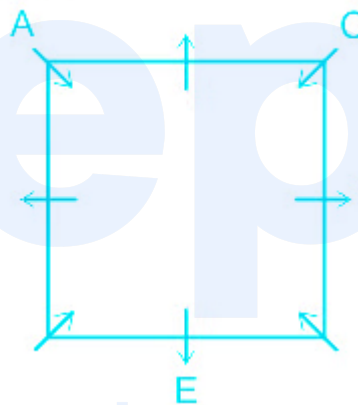
(1) A sits second to the right of C.

(2) Two people sit between A and E whose immediate neighbors are facing the center of the table.

Case 1

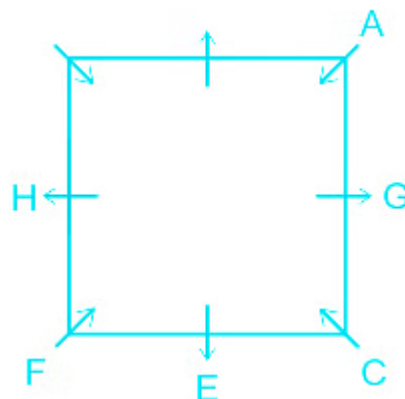


Case2

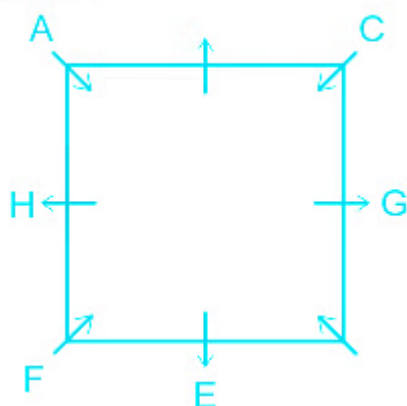


(3) G sits opposite to H who sits immediately to the left of F.

Case 1

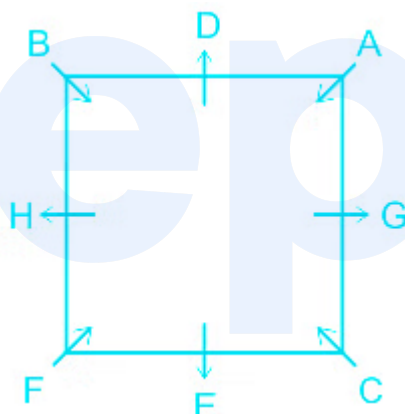


Case 2



(4) B is neither a neighbor of A nor E. Case II eliminates here.

Thus the final arrangement is,



We can see that H sits opposite G and D sits second to the right of H.

Hence, D is the correct answer.

84. Answer: c

Explanation:

1	2	3	4	5	6	7	8	9	10	11
A	G	G	R	E	G	A	T	I	O	N

Letters: A, G, I, N

Only 1 word is formed: GAIN

Third letter from the left end of the word 'GAIN' : I

Hence, I would be the third letter from the left in the only word which is formed.

★ Confusion Points

In this type of question, we have to use all the letters asked in the question, without repeating them to form a word.

85. Answer: a

Explanation:

The solution will be added soon. The solution will be made available after 6 PM, 7th Jan.

Given	C	A	R	B	O	N	I	Z	E
After Replacement	B	B	Q	A	P	M	J	Y	F

Here, only letter B occurred twice.

Hence, only 1 letter occurred more than once.

86. Answer: a

Explanation:

The solution will be added soon. The solution will be made available after 6 PM, 7th Jan.

Given	8	9	5	6	4	3	5	2	5	1
After Replacement	9	8	4	7	5	2	4	3	4	0

Second digit from left after replacement: 8

Fourth digit from right after replacement: 4

Multiplication of both the digits: 32

Hence, **32** will be the multiplication of the second digit from the left and fourth digit from the

right. **Your Personal Exams Guide**

★ Shortcut Trick

Second digit from the left end is 9 and 9 is odd number so = $9 - 1 = 8$

Fourth digit from the right end is 5 and 5 is odd number so = $5 - 1 = 4$

Therefore correct answer is $8 \times 4 = 32$

87. Answer: c

Explanation:

Few people are sitting in a row facing North.

- (1) I and L are sitting at the extreme ends of the row.
- (2) L is sitting third to the right of R.
- (3) O is sitting third to the left of R.
- (4) Three people are sitting between O and P.

On combining these four sentences we get, two cases:

First Case: When O is sitting to the right of P.

Case -1



Second Case: When O is sitting to the left of P.

Case -2



- (5) M is sitting fifth to the left of P, who is an immediate neighbor of Q.
- (6) Number of people sitting between Q and M is same as number of people sitting between Q and R.
- (7) Only three people are sitting to the left of A.

On combining these three sentences we get, that our Case 2 is eliminated, as statement 6 is violated in this case.



(8) Two people are sitting between H and M.

(9) S is sitting to the second to the left of H, and is not sitting at the left of A.

(10) A and M are immediate neighbors.



The final arrangement:

Hence, 7 people are sitting to the left of H.

88. Answer: e

Explanation:

Answer- (5)

(1) I and L are sitting at the extreme ends of the row.

(2) L is sitting third to the right of R.

(3) O is sitting third to the left of R.

(4) Three people are sitting between O and P.

On combining these four sentences we get, two cases:

First Case: When O is sitting to the right of P.

Case -1



Second Case: When O is sitting to the left of P.

Case -2



(5) M is sitting fifth to the left of P, who is an immediate neighbor of Q.

(6) Number of people sitting between Q and M is same as number of people sitting between Q and R.

(7) Only three people are sitting to the left of A.

On combining these three sentences we get, that our Case 2 is eliminated, as statement 6 is violated in this case.



(8) Two people are sitting between H and M.

(9) S is sitting to the second to the left of H, and is not sitting at the left of A.

(10) A and M are immediate neighbors.



The final arrangement:



Hence, 20 people are sitting in a row.

89. Answer: d

Explanation:

Answer- (4)

(1) I and L are sitting at the extreme ends of the row.

(2) L is sitting third to the right of R.

(3) O is sitting third to the left of R.

(4) Three people are sitting between O and P.

On combining these four sentences we get, two cases:

First Case: When O is sitting to the right of P.

Case -1



Second Case: When O is sitting to the left of P.

Case -2



(5) M is sitting fifth to the left of P, who is an immediate neighbor of Q.

(6) Number of people sitting between Q and M is same as number of people sitting between Q and R.

(7) Only three people are sitting to the left of A.

On combining these three sentences we get, that our Case 2 is eliminated, as statement 6 is violated in this case.



(8) Two people are sitting between H and M.

(9) S is sitting to the second to the left of H, and is not sitting at the left of A.

(10) A and M are immediate neighbors.



The final arrangement:



Hence, P is sitting seventh to the left of R is true.

90. Answer: c

Explanation:

Answer- (3)

(1) I and L are sitting at the extreme ends of the row.

(2) L is sitting third to the right of R.

(3) O is sitting third to the left of R.

(4) Three people are sitting between O and P.

On combining these four sentences we get, two cases:

First Case: When O is sitting to the right of P.

Case -1



Second Case: When O is sitting to the left of P.

Case -2



(5) M is sitting fifth to the left of P, who is an immediate neighbor of Q.

(6) Number of people sitting between Q and M is same as number of people sitting between Q and R.

(7) Only three people are sitting to the left of A.

On combining these three sentences we get, that our Case 2 is eliminated, as statement 6 is violated in this case.



(8) Two people are sitting between H and M.

(9) S is sitting to the second to the left of H, and is not sitting at the left of A.

(10) A and M are immediate neighbors.



The final arrangement:



Hence, H is seventh to the right of I.

91. Answer: a

Explanation:

Answer- (1)

(1) I and L are sitting at the extreme ends of the row.

(2) L is sitting third to the right of R.

(3) O is sitting third to the left of R.

(4) Three people are sitting between O and P.

On combining these four sentences we get, two cases:

First Case: When O is sitting to the right of P.

Case -1



Second Case: When O is sitting to the left of P.

Case -2



- (5) M is sitting fifth to the left of P, who is an immediate neighbor of Q.
- (6) Number of people sitting between Q and M is same as number of people sitting between Q and R.
- (7) Only three people are sitting to the left of A.

On combining these three sentences we get, that our Case 2 is eliminated, as statement 6 is violated in this case.



- (8) Two people are sitting between H and M.
- (9) S is sitting to the second to the left of H, and is not sitting at the left of A.
- (10) A and M are immediate neighbors.



The final arrangement:



Hence, Eight people are sitting between Q and L.

92. Answer: c

Explanation:

Given:

Six jars A, B, C, D, E and F are filled with milk, each having different quantities of milk.

1) B has less milk than only two jars.

_____ > _____ > B > _____ > _____ > _____

2) F has more than only E.

_____ > _____ > B > _____ > F > E

3) A has more milk than F but less than B.

_____ > _____ > B > A > F > E

4) C does not contain the highest quantity of milk.

D > C > B > A > F > E

This is the final order of the quantity of milk in jars.

Hence, jar D contains the highest quantity of milk.

93. Answer: c

Explanation:

Given:

Six jars A, B, C, D, E and F are filled with milk, each having different quantities of milk.

1) B has less milk than only two jars.

_____ > _____ > B > _____ > _____ > _____

2) F has more than only E.

_____ > _____ > B > _____ > F > E

3) A has more milk than F but less than B.

_____ > _____ > B > A > F > E

4) C does not contain the highest quantity of milk.

D > C > B > A > F > E

This is the final order of the quantity of milk in jars.

5) The second highest and the second lowest containing jars have 33 ltr and 17 ltr respectively. That means, C contains 33 ltr and F contains 17 ltr.

Since, $C + E = 48$

$\Rightarrow E = 48 - 33$

$\Rightarrow E = 15$

And, $D + F = 52$

$\Rightarrow D = 52 - 17$

$\Rightarrow D = 35$

Total quantity of milk in D and E = $15 + 35$

Hence, the total quantity of milk contained by jar D and E is 50 ltr.

94. Answer: b

Explanation:

Given:

Six jars A, B, C, D, E and F are filled with milk, each having different quantities of milk.

1) B has less milk than only two jars.

_____ > _____ > B > _____ > _____ > _____

2) F has more than only E.

_____ > _____ > B > _____ > F > E

3) A has more milk than F but less than B.

_____ > _____ > B > A > F > E

4) C does not contain the highest quantity of milk.

D > C > B > A > F > E

This is the final order of the quantity of milk in jars.

5) The second highest and the second lowest containing jars have 33 ltr and 17 ltr respectively. That means, C contains 33 ltr and F contains 17 ltr.

Since, C + E = 48

⇒ E = 48 - 33

⇒ E = 15

And, D + F = 52

⇒ D = 52 - 17

⇒ D = 35

Quantity of jar A is between C and F, that means A must contain milk between 33 ltr and 17 ltr.

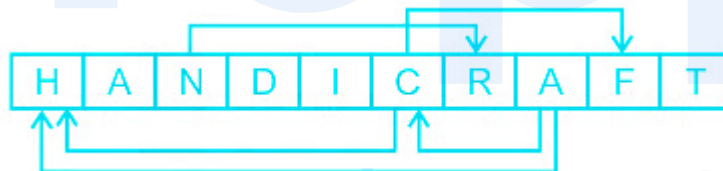
According to options, 19 is the only possible value which is odd as well as between 17 and 33.

Hence, **19** is the possible value of the quantity of milk contained by jar A.

95. Answer: e

Explanation:

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



Forward pairs: NR, CF

Backward pairs: AC, AH, CH

Here, a total 5 pairs are formed.

Hence, **more than 4 pairs** are there

96. Answer: c

Explanation:

Given Information;

6 people – A, B, C, D, E and F

Date – 13th or 20th

Month – May, June, July

City – Shimla, Shillong, Mussoorie, Punjab, Imphal and Jaipur

- 1) A's event is in even date and in the month of having 30 days.
- 2) One person having the event between A and the one whose event is in Shimla.
- 3) Two persons have their events in between the person whose events are in Shimla and Imphal.

CASE 1:

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Days	Month	Date	Persons	City
31	May	13 th		
		20 th		Shimla
30	June	13 th		
		20 th	A	
31	July	13 th		Imphal
		20 th		

CASE 2:

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Days	Month	Date	Persons	City
31	May	13 th		
		20 th		
30	June	13 th		Imphal
		20 th	A	
31	July	13 th		
		20 th		Shimla

4) One person has the event between Imphal and D, and D's event is before A's event.

5) E and B having their events in the same months

6) E's event is not in Imphal.

7) B's event is in Shillong.

CASE 1:

Days	Month	Date	Persons	City
31	May	13 th	B	Shillong
		20 th	E	Shimla
30	June	13 th	D	
		20 th	A	
31	July	13 th		Imphal
		20 th		

Case 2:

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Days	Month	Date	Persons	City
31	May	13 th	D	
		20 th		
30	June	13 th		Imphal
		20 th	A	
31	July	13 th	B	Shillong
		20 th	E	Shimla

8) F's event is placed in Mussoorie.

(In case 1, Only 1 place left that is 20 th of July so, F's event takes place in 20 th of July. In case 2, Only 1 place left that is 20 th of May so, F's event takes place in 20 th of May.)

9) A's event is not placed in Jaipur.

(As A's event is not placed in Jaipur, A's event is placed in Punjab.)

One person left that is D so, D's event takes place in Jaipur.

Case 1:

Days	Month	Date	Persons	City
31	May	13 th	B	Shillong
		20 th	E	Shimla
30	June	13 th	D	Jaipur
		20 th	A	Punjab
31	July	13 th		Imphal
		20 th	F	Mussoorie

CASE 2:

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Days	Month	Date	Persons	City
31	May	13 th	D	Jaipur
		20 th	F	Mussoorie
30	June	13 th		Imphal
		20 th	A	Punjab
31	July	13 th	B	Shillong
		20 th	E	Shimla

10) C's event does not take place in June.

(In case 2, only 1 place is left so, C's event takes place in 13 th of June. So, it is eliminated as it is mention that C's event does not take place in June.)

(In case 1, only 1 place is left so, C's event takes place in 13 th of July. So, it is valid.)

Final Solution

CASE 1:

Days	Month	Date	Persons	City
31	May	13 th	B	Shillong
		20 th	E	Shimla
30	June	13 th	D	Jaipur
		20 th	A	Punjab
31	July	13 th	C	Imphal
		20 th	F	Mussoorie

Hence, A's event takes places in Punjab .

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97. Answer: d

Explanation:

Given Information;

6 people – A, B, C, D, E and F

Date – 13th or 20th

Month – May, June, July

City – Shimla, Shillong, Mussoorie, Punjab, Imphal and Jaipur

- 1) A's event is in even date and in the month of having 30 days.
- 2) One person having the event between A and the one whose event is in Shimla.
- 3) Two persons have their events in between the person whose events are in Shimla and Imphal.

CASE 1:

Days	Month	Date	Persons	City
31	May	13 th		
		20 th		Shimla
30	June	13 th		
		20 th	A	
31	July	13 th		Imphal
		20 th		

CASE 2:

Days	Month	Date	Persons	City
31	May	13 th		
		20 th		
30	June	13 th		Imphal
		20 th	A	
31	July	13 th		
		20 th		Shimla

4) One person has the event between Imphal and D, and D's event is before A's event.

5) E and B having their events in the same months

6) E's event is not in Imphal.

7) B's event is in Shillong.

CASE 1:

Days	Month	Date	Persons	City
31	May	13 th	B	Shillong
		20 th	E	Shimla
30	June	13 th	D	
		20 th	A	
31	July	13 th		Imphal
		20 th		

Case 2:

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Days	Month	Date	Persons	City
31	May	13 th	D	
		20 th		
30	June	13 th		Imphal
		20 th	A	
31	July	13 th	B	Shillong
		20 th	E	Shimla

8) F's event is placed in Mussoorie.

(In case 1, Only 1 place left that is 20 th of July so, F's event takes place in 20 th of July. In case 2, Only 1 place left that is 20 th of May so, F's event takes place in 20 th of May.)

9) A's event is not placed in Jaipur.

(As A's event is not placed in Jaipur, A's event is placed in Punjab.)

One person left that is D so, D's event takes place in Jaipur.

Case 1:

Days	Month	Date	Persons	City
31	May	13 th	B	Shillong
		20 th	E	Shimla
30	June	13 th	D	Jaipur
		20 th	A	Punjab
31	July	13 th		Imphal
		20 th	F	Mussoorie

CASE 2:

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Days	Month	Date	Persons	City
31	May	13 th	D	Jaipur
		20 th	F	Mussoorie
30	June	13 th		Imphal
		20 th	A	Punjab
31	July	13 th	B	Shillong
		20 th	E	Shimla

10) C's event does not take place in June.

(In case 2, only 1 place is left so, C's event takes place in 13 th of June. So, it is eliminated as it is mention that C's event does not take place in June.)

(In case 1, only 1 place is left so, C's event takes place in 13 th of July. So, it is valid.)

Final Solution

CASE 1:

Days	Month	Date	Persons	City
31	May	13 th	B	Shillong
		20 th	E	Shimla
30	June	13 th	D	Jaipur
		20 th	A	Punjab
31	July	13 th	C	Imphal
		20 th	F	Mussoorie

There are three persons who have their event between F and the one whose event takes place in Shimla.

Hence, the answer is Three

98. Answer: e

Explanation:

Given Information;

6 people – A, B, C, D, E and F

Date – 13th or 20th

Month – May, June, July

City – Shimla, Shillong, Mussoorie, Punjab, Imphal and Jaipur

- 1) A's event is in even date and in the month of having 30 days.
- 2) One person having the event between A and the one whose event is in Shimla.
- 3) Two persons have their events in between the person whose events are in Shimla and Imphal.

CASE 1:

Days	Month	Date	Persons	City
31	May	13 th		
		20 th		Shimla
30	June	13 th		
		20 th	A	
31	July	13 th		Imphal
		20 th		

CASE 2:

Days	Month	Date	Persons	City
31	May	13 th		
		20 th		
30	June	13 th		Imphal
		20 th	A	
31	July	13 th		
		20 th		Shimla

4) One person has the event between Imphal and D, and D's event is before A's event.

5) E and B having their events in the same months

6) E's event is not in Imphal.

7) B's event is in Shillong.

CASE 1:

Days	Month	Date	Persons	City
31	May	13 th	B	Shillong
		20 th	E	Shimla
30	June	13 th	D	
		20 th	A	
31	July	13 th		Imphal
		20 th		

Case 2:

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Days	Month	Date	Persons	City
31	May	13 th	D	
		20 th		
30	June	13 th		Imphal
		20 th	A	
31	July	13 th	B	Shillong
		20 th	E	Shimla

8) F's event is placed in Mussoorie.

(In case 1, Only 1 place left that is 20 th of July so, F's event takes place in 20 th of July. In case 2, Only 1 place left that is 20 th of May so, F's event takes place in 20 th of May.)

9) A's event is not placed in Jaipur.

(As A's event is not placed in Jaipur, A's event is placed in Punjab.)

One person left that is D so, D's event takes place in Jaipur.

Case 1:

Days	Month	Date	Persons	City
31	May	13 th	B	Shillong
		20 th	E	Shimla
30	June	13 th	D	Jaipur
		20 th	A	Punjab
31	July	13 th		Imphal
		20 th	F	Mussoorie

CASE 2:

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Days	Month	Date	Persons	City
31	May	13 th	D	Jaipur
		20 th	F	Mussoorie
30	June	13 th		Imphal
		20 th	A	Punjab
31	July	13 th	B	Shillong
		20 th	E	Shimla

10) C's event does not take place in June.

(In case 2, only 1 place is left so, C's event takes place in 13 th of June. So, it is eliminated as it is mention that C's event does not take place in June.)

(In case 1, only 1 place is left so, C's event takes place in 13 th of July. So, it is valid.)

Final Solution

CASE 1:

Days	Month	Date	Persons	City
31	May	13 th	B	Shillong
		20 th	E	Shimla
30	June	13 th	D	Jaipur
		20 th	A	Punjab
31	July	13 th	C	Imphal
		20 th	F	Mussoorie

Except for A, all have their event in the month having 31 days.

Hence, the answer is A.

99. Answer: a

Explanation:

Given Information;

6 people – A, B, C, D, E and F

Date – 13th or 20th

Month – May, June, July

City – Shimla, Shillong, Mussoorie, Punjab, Imphal and Jaipur

- 1) A's event is in even date and in the month of having 30 days.
- 2) One person having the event between A and the one whose event is in Shimla.
- 3) Two persons have their events in between the person whose events are in Shimla and Imphal.

CASE 1:

Days	Month	Date	Persons	City
31	May	13 th		
		20 th		Shimla
30	June	13 th		
		20 th	A	
31	July	13 th		Imphal
		20 th		

CASE 2:

Days	Month	Date	Persons	City
31	May	13 th		
		20 th		
30	June	13 th		Imphal
		20 th	A	
31	July	13 th		
		20 th		Shimla

4) One person has the event between Imphal and D, and D's event is before A's event.

5) E and B having their events in the same months

6) E's event is not in Imphal.

7) B's event is in Shillong.

CASE 1:

Days	Month	Date	Persons	City
31	May	13 th	B	Shillong
		20 th	E	Shimla
30	June	13 th	D	
		20 th	A	
31	July	13 th		Imphal
		20 th		

Case 2:

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Days	Month	Date	Persons	City
31	May	13 th	D	
		20 th		
30	June	13 th		Imphal
		20 th	A	
31	July	13 th	B	Shillong
		20 th	E	Shimla

8) F's event is placed in Mussoorie.

(In case 1, Only 1 place left that is 20 th of July so, F's event takes place in 20 th of July. In case 2, Only 1 place left that is 20 th of May so, F's event takes place in 20 th of May.)

9) A's event is not placed in Jaipur.

(As A's event is not placed in Jaipur, A's event is placed in Punjab.)

One person left that is D so, D's event takes place in Jaipur.

Case 1:

Days	Month	Date	Persons	City
31	May	13 th	B	Shillong
		20 th	E	Shimla
30	June	13 th	D	Jaipur
		20 th	A	Punjab
31	July	13 th		Imphal
		20 th	F	Mussoorie

CASE 2:

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Days	Month	Date	Persons	City
31	May	13 th	D	Jaipur
		20 th	F	Mussoorie
30	June	13 th		Imphal
		20 th	A	Punjab
31	July	13 th	B	Shillong
		20 th	E	Shimla

10) C's event does not take place in June.

(In case 2, only 1 place is left so, C's event takes place in 13 th of June. So, it is eliminated as it is mention that C's event does not take place in June.)

(In case 1, only 1 place is left so, C's event takes place in 13 th of July. So, it is valid.)

Final Solution

CASE 1:

Days	Month	Date	Persons	City
31	May	13 th	B	Shillong
		20 th	E	Shimla
30	June	13 th	D	Jaipur
		20 th	A	Punjab
31	July	13 th	C	Imphal
		20 th	F	Mussoorie

There is a gap of one person between B and Jaipur, A and Shimla. In the same way D is related to Imphal.

Hence, the answer is Imphal .

100. Answer: b

Explanation:

Given Information;

6 people - A, B, C, D, E and F

Date - 13th or 20th

Month – May, June, July

City – Shimla, Shillong, Mussoorie, Punjab, Imphal and Jaipur

- 1) A's event is in even date and in the month of having 30 days.
- 2) One person having the event between A and the one whose event is in Shimla.
- 3) Two persons have their events in between the person whose events are in Shimla and Imphal.

CASE 1:

Days	Month	Date	Persons	City
31	May	13 th		
		20 th		Shimla
30	June	13 th		
		20 th	A	
31	July	13 th		Imphal
		20 th		

CASE 2:

Days	Month	Date	Persons	City
31	May	13 th		
		20 th		
30	June	13 th		Imphal
		20 th	A	
31	July	13 th		
		20 th		Shimla

4) One person has the event between Imphal and D, and D's event is before A's event.

5) E and B having their events in the same months

6) E's event is not in Imphal.

7) B's event is in Shillong.

CASE I:

Days	Month	Date	Persons	City
31	May	13 th	B	Shillong
		20 th	E	Shimla
30	June	13 th	D	
		20 th	A	
31	July	13 th		Imphal
		20 th		

Case 2:

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Days	Month	Date	Persons	City
31	May	13 th	D	
		20 th		
30	June	13 th		Imphal
		20 th	A	
31	July	13 th	B	Shillong
		20 th	E	Shimla

8) F's event is placed in Mussoorie.

(In case 1, Only 1 place left that is 20 th of July so, F's event takes place in 20 th of July. In case 2, Only 1 place left that is 20 th of May so, F's event takes place in 20 th of May.)

9) A's event is not placed in Jaipur.

(As A's event is not placed in Jaipur, A's event is placed in Punjab.)

One person left that is D so, D's event takes place in Jaipur.

Case 1:

Days	Month	Date	Persons	City
31	May	13 th	B	Shillong
		20 th	E	Shimla
30	June	13 th	D	Jaipur
		20 th	A	Punjab
31	July	13 th		Imphal
		20 th	F	Mussoorie

CASE 2:

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Days	Month	Date	Persons	City
31	May	13 th	D	Jaipur
		20 th	F	Mussoorie
30	June	13 th		Imphal
		20 th	A	Punjab
31	July	13 th	B	Shillong
		20 th	E	Shimla

10) C's event does not take place in June.

(In case 2, only 1 place is left so, C's event takes place in 13 th of June. So, it is eliminated as it is mention that C's event does not take place in June.)

(In case 1, only 1 place is left so, C's event takes place in 13 th of July. So, it is valid.)

Final Solution

CASE 1:

Days	Month	Date	Persons	City
31	May	13 th	B	Shillong
		20 th	E	Shimla
30	June	13 th	D	Jaipur
		20 th	A	Punjab
31	July	13 th	C	Imphal
		20 th	F	Mussoorie

D has his event on the 13th of June.

Hence, the answer is 13th June.