



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

IBPS PO 10 Oct 2020 Prelims Memory Based Paper Shift 2

Total Time: 1 Hour

Total Marks: 100

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	English Language	30	30	0.25	1
2	Quantitative Aptitude	35	35	0.25	1
3	Reasoning Ability	35	35	0.25	1

- 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 given below. Some words may be highlighted. Read carefully. (+1, -0.25)

Over the last few decades, advancements in computer and software technologies have reached an impressive level. These technologies improve not only very common areas of our daily life, but also areas of education, health, production industries, and so on. Thus, recent advancements in computer and software technologies are the base for the society of tomorrow.

The feasibility of future developments strongly relies on the existence of **key** technologies and their deployments. Analyzing _____ trends in cloud computing including all its services reveals cornerstone fields, such as distributed parallel processing, **advanced** software engineering, image processing, and security solutions. These fields require different sets of resources like computing hardware, Internet, software and hardware tools, mobility technologies, storage, system management, and security technology.

The objective of this special issue is to present a collection of articles that cover recent research results and comprehensive reviews on relevant computer and software technologies. In particular, it aims to present highly technical papers describing the areas mentioned above: distributed parallel processing, advanced software engineering, image processing, and security solutions.

This special issue received an overwhelming response from the community. Due to the limited space, only 10 papers from the initial 109 manuscripts have been selected. These papers represent the most up-to-date research work covering topics such as software process improvement and software testing, vulnerability and video quality assessment, artificial immune systems, improvements in file systems, and component models for distributed simulation, amongst others. Due to the

space limitation, we will not reiterate the contents here. We hope the reader will find this special issue informative and stimulating.

Why are the recent developments in computer science and technology considered the base for the society of tomorrow?

- a. Since they are easily achievable
- b. Since they are indispensable
- c. Since they not only affect common areas of our daily lives but also areas of education, health, industries etc.
- d. Since implementing them is very risky
- e. None of these

2. Read the passage and answer the questions given below. Some words may be highlighted. Read carefully. (+1, -0.25)

Over the last few decades, advancements in computer and software technologies have reached an impressive level. These technologies improve not only very common areas of our daily life, but also areas of education, health, production industries, and so on. Thus, recent advancements in computer and software technologies are the base for the society of tomorrow.

The feasibility of future developments strongly relies on the existence of **key** technologies and their deployments. Analyzing _____ trends in cloud computing including all its services reveals cornerstone fields, such as distributed parallel processing, **advanced** software engineering, image processing, and security solutions. These fields require different sets of resources like computing hardware, Internet, software and hardware tools, mobility technologies, storage, system management, and security technology.

The objective of this special issue is to present a collection of articles that cover recent research results and comprehensive reviews on relevant computer and software technologies. In particular, it aims to present highly technical papers describing the areas mentioned above: distributed parallel processing, advanced software engineering, image processing, and security solutions.

This special issue received an overwhelming response from the community. Due to the limited space, only 10 papers from the initial 109 manuscripts have been selected. These papers represent the most up-to-date research work covering topics such as software process improvement and software testing, vulnerability and video quality assessment, artificial immune systems, improvements in file systems, and component models for distributed simulation, amongst others. Due to the space limitation, we will not reiterate the contents here. We hope the reader will find this special issue informative and stimulating.

Determine the correct pair of selected and total(initial) papers/manuscripts.

- a. 11, 109
- b. 10, 110
- c. 10, 190
- d. 11, 190
- e. 10, 109

3. Read the passage and answer the questions given below. Some words may be highlighted. Read carefully. (+1, -0.25)

Over the last few decades, advancements in computer and software technologies have reached an impressive level. These technologies improve not only very common areas of our daily life, but also areas of

education, health, production industries, and so on. Thus, recent advancements in computer and software technologies are the base for the society of tomorrow.

The feasibility of future developments strongly relies on the existence of **key** technologies and their deployments. Analyzing _____ trends in cloud computing including all its services reveals cornerstone fields, such as distributed parallel processing, **advanced** software engineering, image processing, and security solutions. These fields require different sets of resources like computing hardware, Internet, software and hardware tools, mobility technologies, storage, system management, and security technology.

The objective of this special issue is to present a collection of articles that cover recent research results and comprehensive reviews on relevant computer and software technologies. In particular, it aims to present highly technical papers describing the areas mentioned above: distributed parallel processing, advanced software engineering, image processing, and security solutions.

This special issue received an overwhelming response from the community. Due to the limited space, only 10 papers from the initial 109 manuscripts have been selected. These papers represent the most up-to-date research work covering topics such as software process improvement and software testing, vulnerability and video quality assessment, artificial immune systems, improvements in file systems, and component models for distributed simulation, amongst others. Due to the space limitation, we will not reiterate the contents here. We hope the reader will find this special issue informative and stimulating.

Which of the following topics ARE NOT covered in the research papers?

- a. Software process improvement and software testing
- b. Vulnerability and video quality assessment
- c. Artificial immune systems and improvements in folder systems

d. Component models for distributed simulation

e. None of these

4. Read the passage and answer the questions given below. Some words may be highlighted. Read carefully. (+1, -0.25)

Over the last few decades, advancements in computer and software technologies have reached an impressive level. These technologies improve not only very common areas of our daily life, but also areas of education, health, production industries, and so on. Thus, recent advancements in computer and software technologies are the base for the society of tomorrow.

The feasibility of future developments strongly relies on the existence of **key** technologies and their deployments. Analyzing _____ trends in cloud computing including all its services reveals cornerstone fields, such as distributed parallel processing, **advanced** software engineering, image processing, and security solutions. These fields require different sets of resources like computing hardware, Internet, software and hardware tools, mobility technologies, storage, system management, and security technology.

The objective of this special issue is to present a collection of articles that cover recent research results and comprehensive reviews on relevant computer and software technologies. In particular, it aims to present highly technical papers describing the areas mentioned above: distributed parallel processing, advanced software engineering, image processing, and security solutions.

This special issue received an overwhelming response from the community. Due to the limited space, only 10 papers from the initial 109 manuscripts have been selected. These papers represent the most up-to-date research work covering topics such as software process improvement and software testing, vulnerability and video quality assessment, artificial immune systems, improvements in file systems, and

component models for distributed simulation, amongst others. Due to the space limitation, we will not reiterate the contents here. We hope the reader will find this special issue informative and stimulating.

Replace the emboldened word with a suitable alternative.

The feasibility of future developments strongly relies on the existence of key technologies and their deployments.

- a. Peripheral
- b. Pivotal
- c. Crucial
- d. Secondary
- e. 2 and 3

5. Read the passage and answer the questions given below. Some words may be highlighted. Read carefully. (+1, -0.25)

Over the last few decades, advancements in computer and software technologies have reached an impressive level. These technologies improve not only very common areas of our daily life, but also areas of education, health, production industries, and so on. Thus, recent advancements in computer and software technologies are the base for the society of tomorrow.

The feasibility of future developments strongly relies on the existence of **key** technologies and their deployments. Analyzing _____ trends in cloud computing including all its services reveals cornerstone fields, such as distributed parallel processing, **advanced** software engineering, image processing, and security solutions. These fields require different sets of resources like computing hardware, Internet, software and hardware tools,

mobility technologies, storage, system management, and security technology.

The objective of this special issue is to present a collection of articles that cover recent research results and comprehensive reviews on relevant computer and software technologies. In particular, it aims to present highly technical papers describing the areas mentioned above: distributed parallel processing, advanced software engineering, image processing, and security solutions.

This special issue received an overwhelming response from the community. Due to the limited space, only 10 papers from the initial 109 manuscripts have been selected. These papers represent the most up-to-date research work covering topics such as software process improvement and software testing, vulnerability and video quality assessment, artificial immune systems, improvements in file systems, and component models for distributed simulation, amongst others. Due to the space limitation, we will not reiterate the contents here. We hope the reader will find this special issue informative and stimulating.

What is the synonym of the word 'advanced'?

- a. Regressive
- b. Obsolete
- c. Backward
- d. Cutting-edge
- e. 1 and 3

6. Read the passage and answer the questions given below. Some words may be highlighted. Read carefully. (+1, -0.25)

Over the last few decades, advancements in computer and software technologies have reached an impressive level. These technologies improve not only very common areas of our daily life, but also areas of education, health, production industries, and so on. Thus, recent advancements in computer and software technologies are the base for the society of tomorrow.

The feasibility of future developments strongly relies on the existence of **key** technologies and their deployments. Analyzing _____ trends in cloud computing including all its services reveals cornerstone fields, such as distributed parallel processing, **advanced** software engineering, image processing, and security solutions. These fields require different sets of resources like computing hardware, Internet, software and hardware tools, mobility technologies, storage, system management, and security technology.

The objective of this special issue is to present a collection of articles that cover recent research results and comprehensive reviews on relevant computer and software technologies. In particular, it aims to present highly technical papers describing the areas mentioned above: distributed parallel processing, advanced software engineering, image processing, and security solutions.

This special issue received an overwhelming response from the community. Due to the limited space, only 10 papers from the initial 109 manuscripts have been selected. These papers represent the most up-to-date research work covering topics such as software process improvement and software testing, vulnerability and video quality assessment, artificial immune systems, improvements in file systems, and component models for distributed simulation, amongst others. Due to the space limitation, we will not reiterate the contents here. We hope the reader will find this special issue informative and stimulating.

What could fit the blank in the passage?

- a. American

- b. Indian
- c. Global
- d. Local
- e. Shoddy

7. Read the passage and answer the questions given below. Some words may be highlighted. Read carefully. (+1, -0.25)

Over the last few decades, advancements in computer and software technologies have reached an impressive level. These technologies improve not only very common areas of our daily life, but also areas of education, health, production industries, and so on. Thus, recent advancements in computer and software technologies are the base for the society of tomorrow.

The feasibility of future developments strongly relies on the existence of **key** technologies and their deployments. Analyzing _____ trends in cloud computing including all its services reveals cornerstone fields, such as distributed parallel processing, **advanced** software engineering, image processing, and security solutions. These fields require different sets of resources like computing hardware, Internet, software and hardware tools, mobility technologies, storage, system management, and security technology.

The objective of this special issue is to present a collection of articles that cover recent research results and comprehensive reviews on relevant computer and software technologies. In particular, it aims to present highly technical papers describing the areas mentioned above: distributed parallel processing, advanced software engineering, image processing, and security solutions.

This special issue received an overwhelming response from the community. Due to the limited space, only 10 papers from the initial 109 manuscripts have been selected. These papers represent the most up-to-

date research work covering topics such as software process improvement and software testing, vulnerability and video quality assessment, artificial immune systems, improvements in file systems, and component models for distributed simulation, amongst others. Due to the space limitation, we will not reiterate the contents here. We hope the reader will find this special issue informative and stimulating.

What is the particular aim of 'this special issue'?

- a. The objective of this special issue is to present a collection of articles that cover recent research results and comprehensive reviews on relevant computer and software technologies.
- b. It aims to present highly technical papers describing the areas of distributed parallel processing, advanced software engineering, image processing, and security solutions.
- c. To energize Make in India initiatives
- d. To make India lead in all technological aspects
- e. None of these

8. Read the passage and answer the questions given below. Some words may be highlighted. Read carefully. (+1, -0.25)

Over the last few decades, advancements in computer and software technologies have reached an impressive level. These technologies improve not only very common areas of our daily life, but also areas of education, health, production industries, and so on. Thus, recent advancements in computer and software technologies are the base for the society of tomorrow.

The feasibility of future developments strongly relies on the existence of **key** technologies and their deployments. Analyzing _____ trends in cloud computing including all its services reveals cornerstone fields, such

as distributed parallel processing, **advanced** software engineering, image processing, and security solutions. These fields require different sets of resources like computing hardware, Internet, software and hardware tools, mobility technologies, storage, system management, and security technology.

The objective of this special issue is to present a collection of articles that cover recent research results and comprehensive reviews on relevant computer and software technologies. In particular, it aims to present highly technical papers describing the areas mentioned above: distributed parallel processing, advanced software engineering, image processing, and security solutions.

This special issue received an overwhelming response from the community. Due to the limited space, only 10 papers from the initial 109 manuscripts have been selected. These papers represent the most up-to-date research work covering topics such as software process improvement and software testing, vulnerability and video quality assessment, artificial immune systems, improvements in file systems, and component models for distributed simulation, amongst others. Due to the space limitation, we will not reiterate the contents here. We hope the reader will find this special issue informative and stimulating.

What is a 'decade'?

- a. A period of 10 years
- b. A period of 15 years
- c. A period of 5 years
- d. A period of 10 days
- e. A period of 10 months

9. Given below is a sentence with two blanks. Identify the correct order of words which can be used to fill the blanks. (+1, -0.25)

Like many previous rulers, Saddam Hussain feared that the rituals would be used in order to _____ rebellion against his _____, that the pilgrimage would turn into a protest.

- A. Ethics
 - B. Overdue
 - C. Pertain
 - D. Incite
 - E. Regime
- a. AB
 - b. DE
 - c. BA
 - d. CE
 - e. AE

10. Given below is a sentence with two blanks. Identify the correct order of words which can be used to fill the blanks. (+1, -0.25)

_____ with the pandemic-induced financial _____, many companies have had to either lay off or furlough thousands of employees.

- A. Intervening
- B. Assuming
- C. Grappling

D. Labour

E. Crunch

a. CE

b. EC

c. BE

d. BD

e. AD

-
11. Given below is a sentence with two blanks. Identify the correct order of words which can be used to fill the blanks. (+1, -0.25)

The total cost would amount to 69% of current GDP for the typical country – a potentially _____ economic harm that will "_____ through the world's economies in ways that will be felt far into the future."

A. Affirm

B. Sovereign

C. Unattainable

D. Unprecedented

E. Ripple

a. DE

b. AB

c. BC

d. CD

e. EA

-
12. Given below is a sentence with two blanks. Identify the correct order of words which can be used to fill the blanks. (+1, -0.25)

We are _____ students to understand the _____ role that they play in stopping this community spread and, ultimately, saving lives.

A. Demolishing

B. Passive

C. Urging

D. Imperative

E. Authorizing

a. BC

b. ED

c. AE

d. CD

e. AB

-
13. Given below is a sentence with two blanks. Identify the correct order of words which can be used to fill the blanks. (+1, -0.25)

The next year, Black activist Claudia Jones organized a _____ to the carnival, a dance at St. Pancras town hall that raised money for the defense of those arrested in the _____.

A. Turmoil

- B. Precursor
- C. Disguise
- D. Deem
- E. Assassination

- a. BA
- b. AB
- c. CD
- d. CE
- e. AC

-
14. Pick out the most effective words from the given words to fill in the blanks (+1, -0.25)
to make the sentence meaningfully complete.

_____ by prosperity but not _____ by it, more and more people
are searching for meaning.

- a. Embraced, influenced
- b. Liberated, fulfilled
- c. Integrated, intensified
- d. Educated, complied
- e. Created, corrected

-
15. Read the sentence to find out if there is any error in it. The error if any, will (+1, -0.25)
be in one part of the sentence. The number of that part will be the answer.

If there is no error, then the answer is (5). Ignore error of punctuation if any.

In spite of reminding Penelope multiple times (1)/ she was still a hour (2)/ late in coming to (3)/ the movie theater on Monday. (4)/ No error (5)

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

-
16. Read the sentence to find out if there is any error in it. The error is any, will be in one part is the sentence. The number of that part will be the answer. If there is no error, then the answer is (5). Ignore error of punctuations if any. (+1, -0.25)

The restaurant manager decided (1)/ to pay for the health inspector (2)/ for the (3)/ unhygienic kitchen. (4)/ No Error (5)

- a. 1
 - b. 2
 - c. 3
 - d. 4
 - e. 5
-

17. Read the sentence to find out if there is any error in it. The error is any, will be in one part is the sentence. The number of that part will be the answer. If there is no error, then the answer is (5). Ignore error of punctuations if any. (+1, -0.25)

Very less people have (1)/ ever been able to go down (2)/ a live volcano and have (3)/ lived to tell the tale. (4)/ No Error (5)

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

18. Read the sentence to find out if there is any error in it. The error is any, will be in one part is the sentence. The number of that part will be the answer. If there is no error, then the answer is (5). Ignore error of punctuation if any. (+1, -0.25)

He met with his friends from college (1)/ after so many years (2)/ that for a while (3)/ it was hard to identify them. (4)/ No Error (5)

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

19. Read the sentence to find out if there is any error in it. The error is any, will be in one part is the sentence. The number of that part will be the answer. If there is no error, then the answer is (5). Ignore error of punctuation if any. (+1, -0.25)

Ella insisted to paying (1)/ for the expensive meal (2)/ even though it was (3)/ Anna who had invited her for brunch. (4)/ No Error

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

20. Directions: 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 bride **refused** (A) to marry the **groom** (B) on the wedding day because she **found** (C) out about the **dowry**. (D)

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

e. No Rearrangement

-
21. Directions: 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)

By the time the **location** (A) and the fire brigade **reached** (B) the **ambulance** (C) of the fire, there were too many **casualties**. (D)

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

-
22. Directions: 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 **trapped** (A) was **horribly** (B) **regiment** (C) during the war, with the sea on one side and the **enemy** (D) on the other.

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

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

23. Directions: 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)

Sandra may have been a **politician** (A) **successful** , (B) yet she was never openly **supported** (C) by her male **peers** . (D)

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

24. Directions: 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)

Colin **decided** (A) to take a road **graduation** (B) with his best friend Hassan in order to **celebrate** (C) his **trip**. (D)

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

25. Directions: 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 man was **portrait** (A) with a **gifted** (B) of himself by his best **friend** (C) for his 30th **birthday**. (D)

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

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. While Congo's other provinces have large diamond and gold deposits, it was mainly on Katanga's mineral wealth that the Belgian colony grew rich in the mid-twentieth century.

B. It is below the soil that you find the reason why the early Belgian colonialists in the late nineteenth century staked the territory so obstinately, in defiance of British pioneers probing northwards from what was then Rhodesia.

C. On the surface, there seems no clear reason for this outcrop of Congolese territory surrounded on three sides by its southern neighbour, Zambia.

D. If you look at a map of the Congo, you see that the country appears to have grown a vestigial tail around its bottom right-hand corner, known as the Katanga Pandhandle.

E. The panhandle includes some of the richest deposits of copper, cobalt and uranium on the planet, a geological quirk that the early Belgian colonialists identified more smartly than their British counterparts.

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

a. A

b. B

c. C

d. D

e. E

-
27. 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. While Congo's other provinces have large diamond and gold deposits, it was mainly on Katanga's mineral wealth that the Belgian colony grew rich in the mid-twentieth century.
- B. It is below the soil that you find the reason why the early Belgian colonialists in the late nineteenth century staked the territory so obstinately, in defiance of British pioneers probing northwards from what was then Rhodesia.
- C. On the surface, there seems no clear reason for this outcrop of Congolese territory surrounded on three sides by its southern neighbour, Zambia.
- D. If you look at a map of the Congo, you see that the country appears to have grown a vestigial tail around its bottom right-hand corner, known as the Katanga Pandhandle.
- E. The panhandle includes some of the richest deposits of copper, cobalt and uranium on the planet, a geological quirk that the early Belgian colonialists identified more smartly than their British counterparts.

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

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

-
28. 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. While Congo's other provinces have large diamond and gold deposits, it was mainly on Katanga's mineral wealth that the Belgian colony grew rich in the mid-twentieth century.

B. It is below the soil that you find the reason why the early Belgian colonialists in the late nineteenth century staked the territory so obstinately, in defiance of British pioneers probing northwards from what was then Rhodesia.

C. On the surface, there seems no clear reason for this outcrop of Congolese territory surrounded on three sides by its southern neighbour, Zambia.

D. If you look at a map of the Congo, you see that the country appears to have grown a vestigial tail around its bottom right-hand corner, known as the Katanga Pandhandle.

E. The panhandle includes some of the richest deposits of copper, cobalt and uranium on the planet, a geological quirk that the early Belgian colonialists identified more smartly than their British counterparts.

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

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

29. 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. While Congo's other provinces have large diamond and gold deposits, it was mainly on Katanga's mineral wealth that the Belgian colony grew rich in the mid-twentieth century.

B. It is below the soil that you find the reason why the early Belgian colonialists in the late nineteenth century staked the territory so obstinately, in defiance of British pioneers probing northwards from what was then Rhodesia.

C. On the surface, there seems no clear reason for this outcrop of Congolese territory surrounded on three sides by its southern neighbour, Zambia.

D. If you look at a map of the Congo, you see that the country appears to have grown a vestigial tail around its bottom right-hand corner, known as the Katanga Pandhandle.

E. The panhandle includes some of the richest deposits of copper, cobalt and uranium on the planet, a geological quirk that the early Belgian colonialists identified more smartly than their British counterparts.

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

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

30. 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. While Congo's other provinces have large diamond and gold deposits, it was mainly on Katanga's mineral wealth that the Belgian colony grew rich in the mid-twentieth century.

B. It is below the soil that you find the reason why the early Belgian colonialists in the late nineteenth century staked the territory so obstinately, in defiance of British pioneers probing northwards from what was then Rhodesia.

C. On the surface, there seems no clear reason for this outcrop of Congolese territory surrounded on three sides by its southern neighbour, Zambia.

D. If you look at a map of the Congo, you see that the country appears to have grown a vestigial tail around its bottom right-hand corner, known as the Katanga Pandhandle.

E. The panhandle includes some of the richest deposits of copper, cobalt and uranium on the planet, a geological quirk that the early Belgian colonialists identified more smartly than their British counterparts.

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

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

Your Personal Exams Guide

Quantitative Aptitude

31. In the following question, two equations numbered I and II are given. You have to solve both the equations and give answer: (+1, -0.25)

I. $x^2 - 18x + 45 = 0$

II. $y^2 - 5y + 6 = 0$

- a. $x > y$
- b. $x \geq y$
- c. $x < y$
- d. $x \leq y$
- e. $x = y$ or the relation cannot be determined

32. In the following question, two equations numbered I and II are given. You have to solve both the equations and give answer: (+1, -0.25)

I. $x^2 - 8x + 15 = 0$

II. $2y^2 - 9y + 7 = 0$

- a. $x > y$
- b. $x \geq y$
- c. $x < y$
- d. $x \leq y$
- e. $x = y$ or the relation cannot be determined

33. In the following question, two equations numbered I and II are given. You have to solve both the equations and give answer: (+1, -0.25)

I. $11x^2 + 18x + 7 = 0$

II. $3y^2 + 2y - 1 = 0$

- a. $x > y$
- b. $x \geq y$
- c. $x < y$
- d. $x \leq y$
- e. $x = y$ or the relation cannot be determined

34. In the following question, two equations numbered I and II are given. You have to solve both the equations and give answer: (+1, -0.25)

I. $x^2 - 9x + 18 = 0$

II. $2y^2 + y - 6 = 0$

- a. $x > y$
- b. $x \geq y$
- c. $x < y$
- d. $x \leq y$
- e. $x = y$ or the relation cannot be determined

35. In the following question, two equations numbered I and II are given. You have to solve both the equations and give answer: (+1, -0.25)

I. $x^2 - 9 = 0$

II. $y^2 + 6y + 9 = 0$

- a. $x > y$
- b. $x \geq y$
- c. $x < y$
- d. $x \leq y$
- e. $x = y$ or the relation cannot be determined

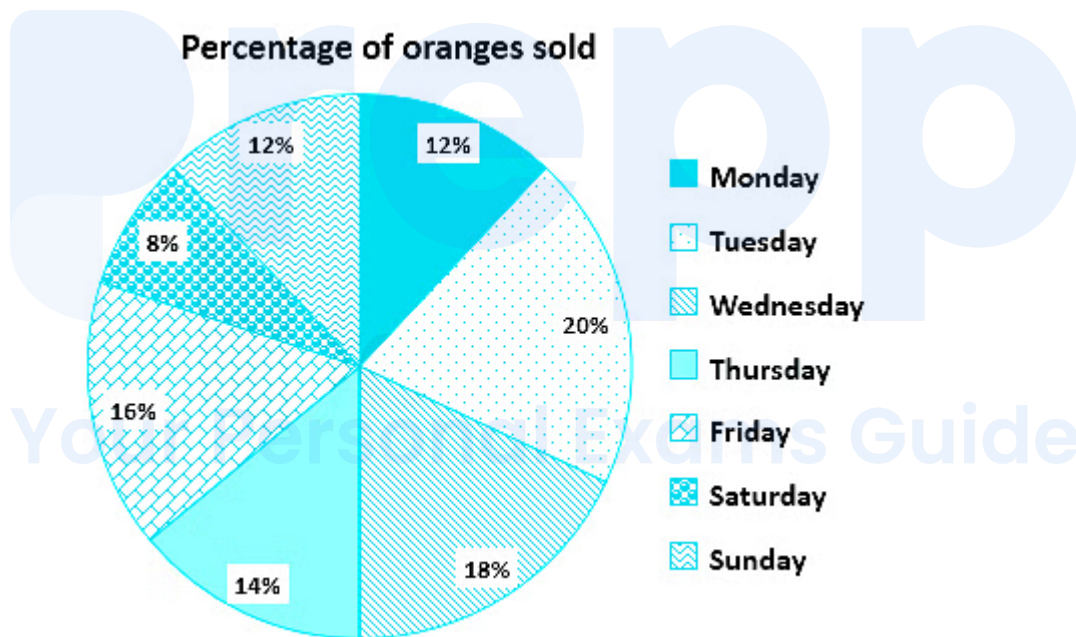
36. A shopkeeper marked the price of an article by 40% above cost price and gave discount of Rs. 224. On the final amount, he charged a tax of 10%. In the whole transaction he earned profit of Rs. 158.6. Find cost price of article. (+1, -0.25)

- a. Rs. 750
- b. Rs. 760
- c. Rs. 744
- d. Rs. 757
- e. Rs. 748

37. The ratio of speed of boat in still water to speed of stream is 8 : 1. The boat covers 54 km downstream and 42 km upstream and it takes a total time of 4 hours. Find the downstream speed of boat. (+1, -0.25)

- a. 25 Kmph
- b. 24 Kmph
- c. 22 Kmph
- d. 20 Kmph
- e. 27 Kmph

38. **Direction:** The pie chart given below shows the percentage of oranges sold by a shop in a week from Monday to Sunday. The total number of oranges sold by the shop is 600. (+1, -0.25)



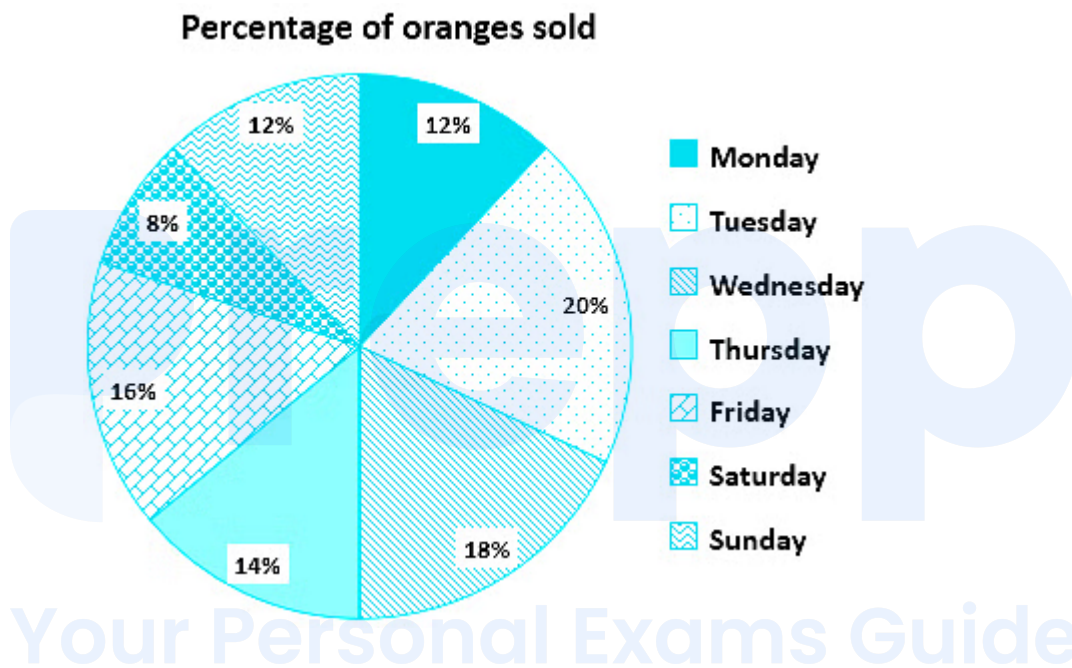
Based on the given pie chart answer the following questions:

Find the difference between the average number of oranges sold on Monday, Wednesday together to the average number of oranges sold on Tuesday, Thursday, and Saturday.

- a. 6
- b. 8

- c. 12
- d. 10
- e. 18

39. **Direction:** The pie chart given below shows the percentage of oranges sold by a shop in a week from Monday to Sunday. The total number of oranges sold by the shop is 600. (+1, -0.25)

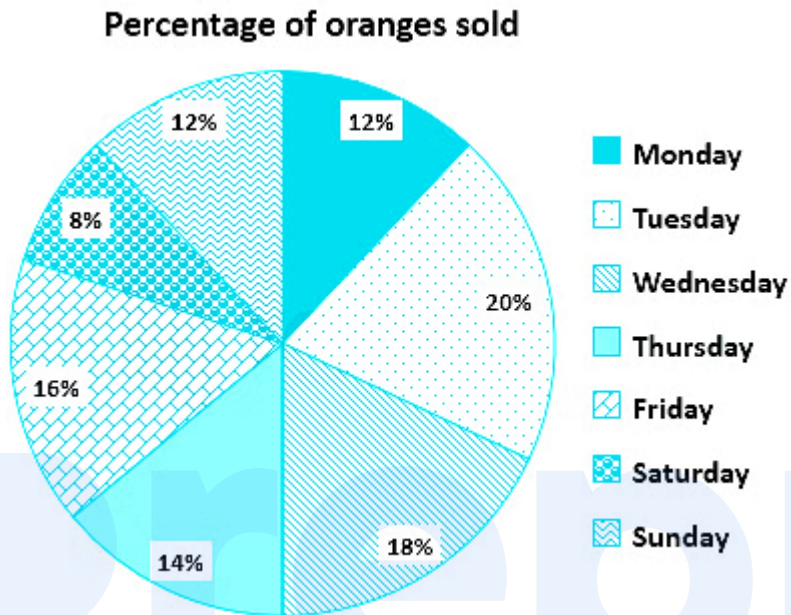


Based on the given pie chart answer the following questions:

Find the difference between the total oranges sold on Monday and Sunday together to total oranges sold on Wednesday.

- a. 18
- b. 24
- c. 36
- d. 30
- e. 48

40. **Direction:** The pie chart given below shows the percentage of oranges sold by a shop in a week from Monday to Sunday. The total number of oranges sold by the shop is 600. (+1, -0.25)



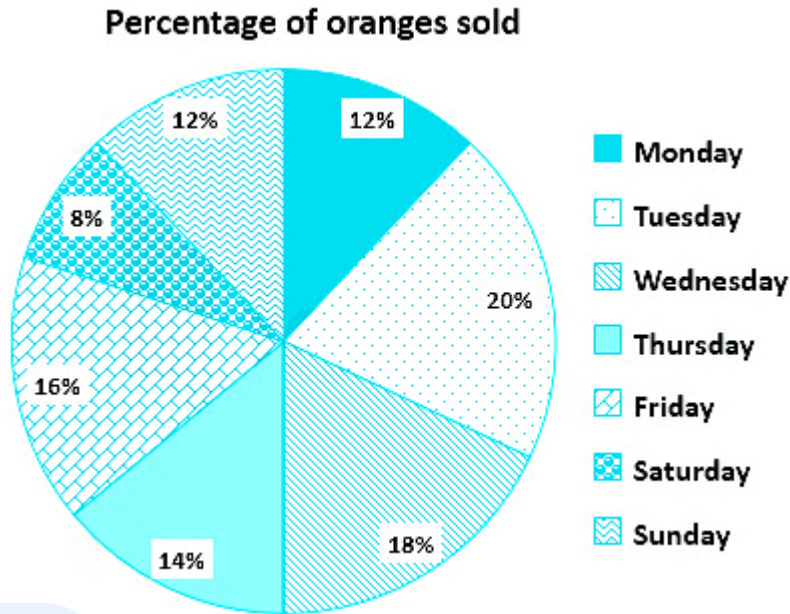
Based on the given pie chart answer the following questions:

What is the ratio of oranges sold on Tuesday and Friday to oranges sold on Wednesday and Sunday?

- a. 2 : 1
- b. 5 : 2
- c. 4 : 3
- d. 6 : 5
- e. 3 : 2

41. **Direction:** The pie chart given below shows the percentage of oranges sold by a shop in a week from Monday to Sunday. The total number of (+1, -0.25)

oranges sold by the shop is 600.



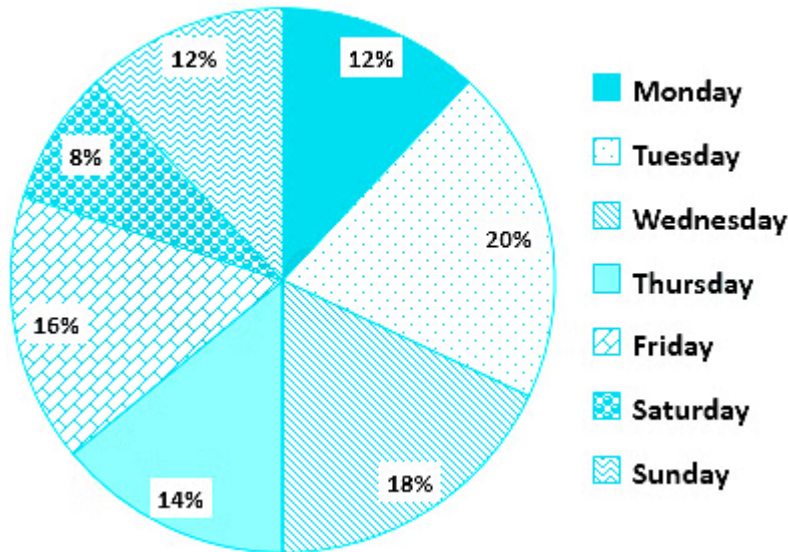
Based on the given pie chart answer the following questions:

Total number of oranges sold on Wednesday and Friday together is how much percent less or more than the number of oranges sold on Monday, Tuesday and Saturday together?

- a. 25% less
- b. 10% less
- c. 20% less
- d. 12% more
- e. 15% less

42. **Direction:** The pie chart given below shows the percentage of oranges sold by a shop in a week from Monday to Sunday. The total number of oranges sold by the shop is 600. (+1, -0.25)

Percentage of oranges sold



Based on the given pie chart answer the following questions:

Find the central angle made by the oranges sold on Tuesday and Friday together.

- a. 150°
- b. 100°
- c. 129.6°
- d. 120°
- e. 172.5°

43. Amit gave 60% of his salary to his wife and invested rest amount in mutual fund. his wife spend 30% amount on grocery and 20% on rent. From remaining amount she purchased gold worth Rs. 18000. Find the salary of Amit. (+1, -0.25)
- a. Rs. 60000

- b. Rs. 64000
- c. Rs. 58000
- d. Rs. 66000
- e. Rs. 54000

44. Two friends Pinki and Rinki entered into partnership by investing an amount of Rs. 6000 and Rs.9000 respectively. The ratio of their period of investment is 2:3. Find the profit share of pinki, If profit share of Rinki is Rs.45000. (+1, -0.25)

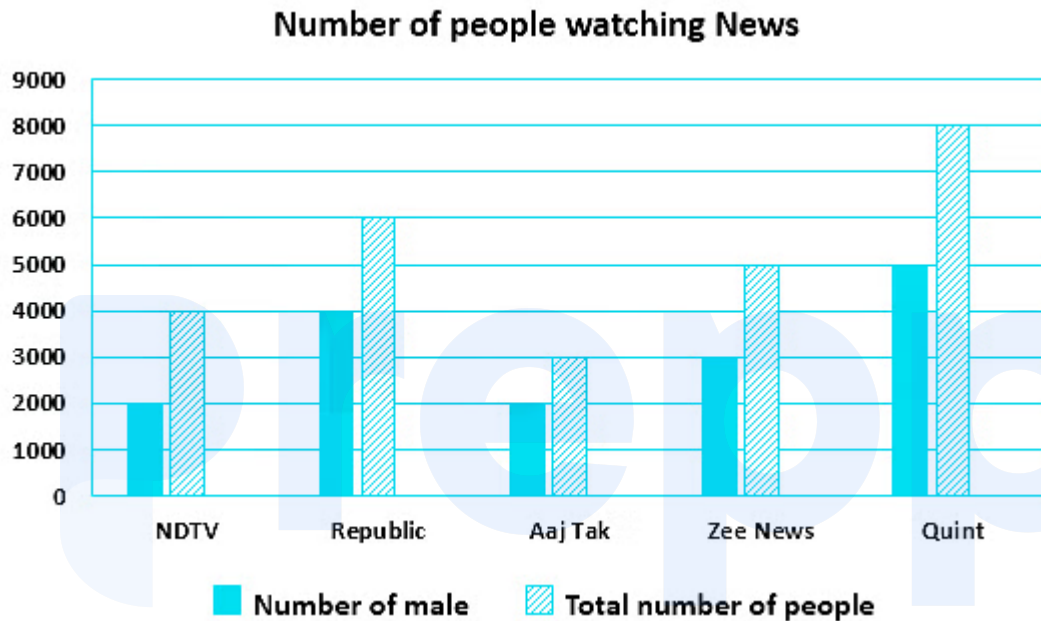
- a. Rs. 24,000
- b. Rs. 20,000
- c. Rs. 18,000
- d. Rs. 28,000
- e. Rs. 25,000

45. Time taken to travel certain distance of 'X' km at speed of 40 kmph is 2 hours more than the time taken to travel $(x + 20)$ km at a speed of 60 kmph. Find the time taken to travel $(x + 40)$ Km at the speed of 40 Kmph. (+1, -0.25)

- a. 8 hours
- b. 6 hours
- c. 7.5 hours
- d. 4 hours

e. 5 hours

46. Direction: The following bar graph shows the total number of people and number of males watching news in five different news channels namely NDTV, Republic, Aaj Tak, Zee News and Quint. Study the Bar graph carefully and answer the following questions. (+1, -0.25)

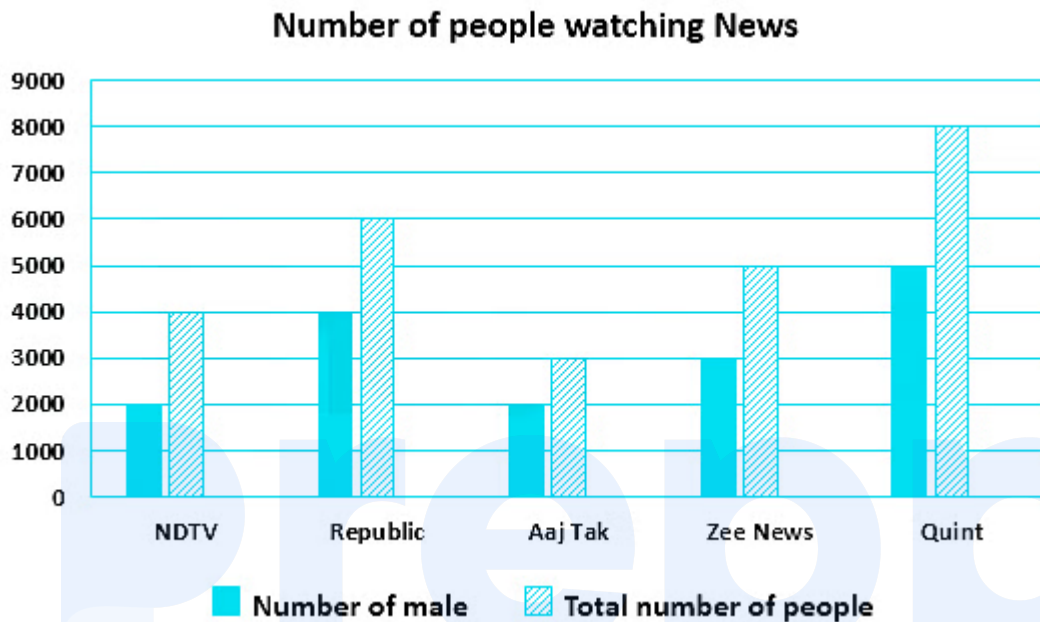


Note: Total number of people consist of males and females.

Number of female watching news on Aaj Tak is what percent of the total number of male watching news together on NDTV and Zee News?

- a. 20%
- b. 30%
- c. 50%
- d. 40%
- e. 60%

47. Direction: The following bar graph shows the total number of people and number of males watching news in five different news channels namely NDTV, Republic, Aaj Tak, Zee News and Quint. Study the Bar graph carefully and answer the following questions. (+1, -0.25)

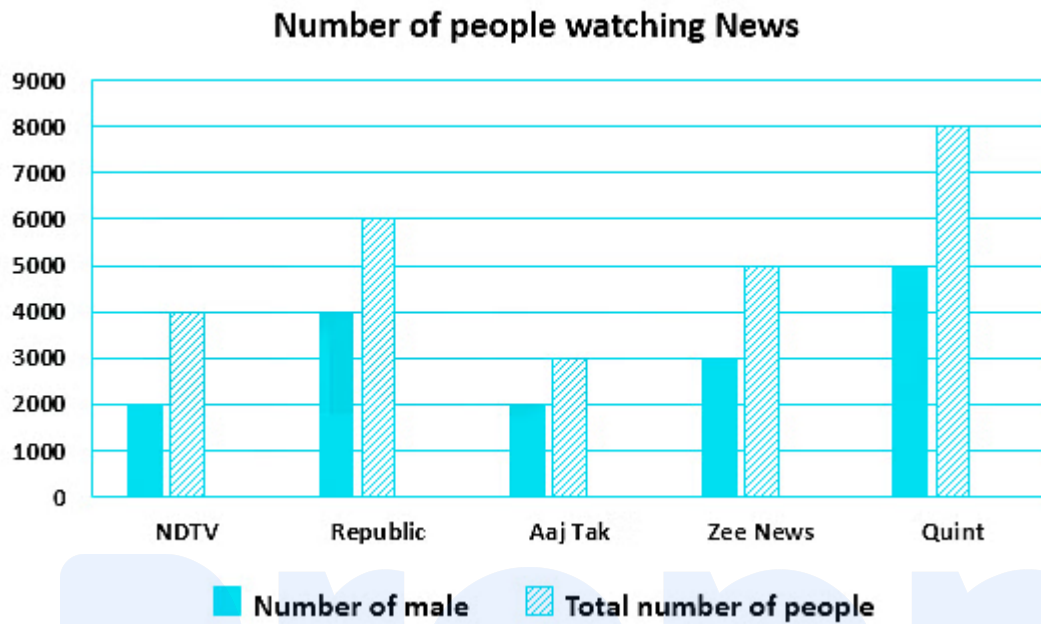


Note: Total number of people consist of males and females.

What is the difference between the total number of female watching News on Quint and Republic?

- a. 500
 - b. 1500
 - c. 2500
 - d. 2000
 - e. 1000
48. Direction: The following bar graph shows the total number of people and number of males watching news in five different news channels namely (+1, -0.25)

NDTV, Republic, Aaj Tak, Zee News and Quint. Study the Bar graph carefully and answer the following questions.

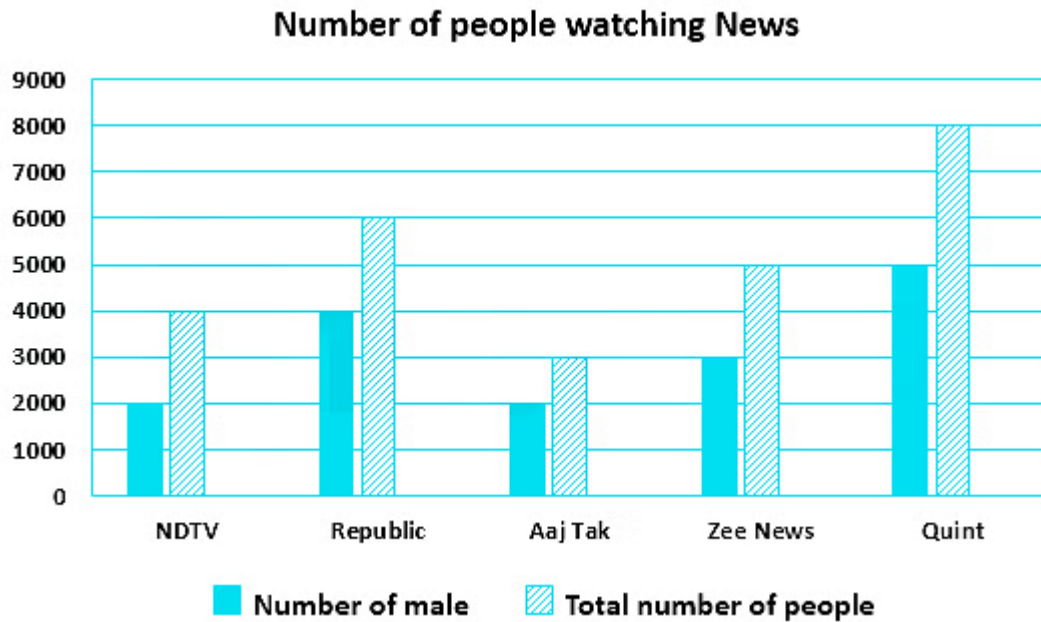


Note: Total number of people consist of males and females.

What is the average number of female watching news from all the News channel together?

- a. 1500
- b. 2000
- c. 1000
- d. 3000
- e. 2500

49. Direction: The following bar graph shows the total number of people and number of males watching news in five different news channels namely NDTV, Republic, Aaj Tak, Zee News and Quint. Study the Bar graph carefully and answer the following questions. (+1, -0.25)

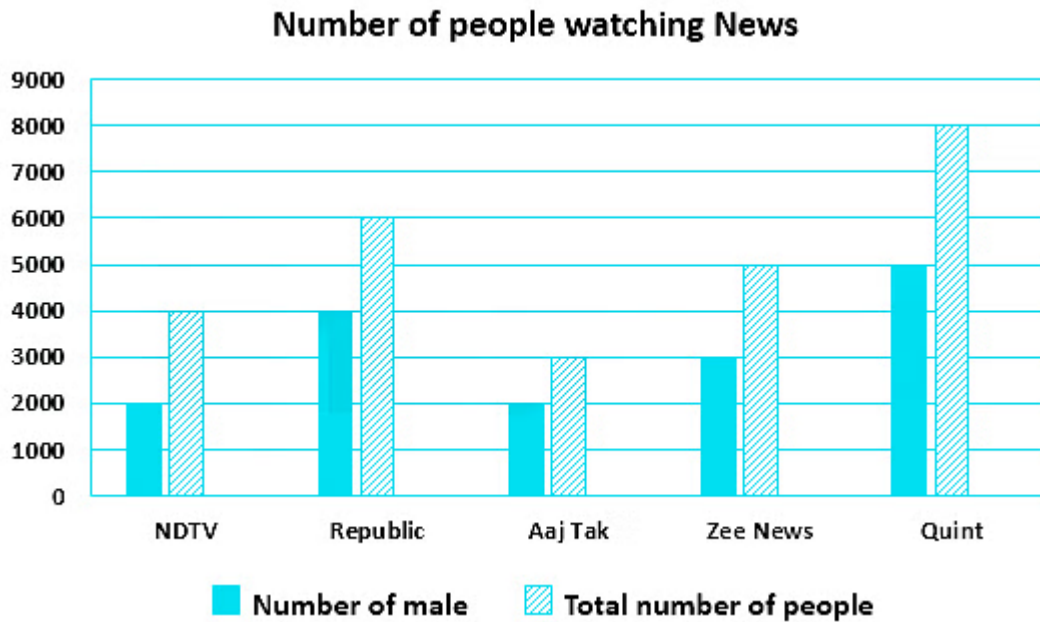


Note: Total number of people consist of males and females.

The number of males watching NDTV is what percent of the total number of males watching all the news channel together?

- a. 12.5%
- b. 25%
- c. 30%
- d. 50%
- e. $66\frac{2}{3}\%$

50. Direction: The following bar graph shows the total number of people and number of males watching news in five different news channels namely NDTV, Republic, Aaj Tak, Zee News and Quint. Study the Bar graph carefully and answer the following questions. (+1, -0.25)



Note: Total number of people consist of males and females.

What is the respective ratio of the number of female watching Zee News to the number of male watching Zee News and Quint?

- a. 4 : 3
- b. 3 : 2
- c. 4 : 7
- d. 1 : 4
- e. 3 : 4

51. If the breadth of a rectangle is $\frac{2}{3}$ rd of its length and the area of another rectangle which is thrice the area of the first rectangle is 7200 cm^2 then find the perimeter of the first rectangle. (+1, -0.25)
- a. 200 cm
 - b. 300 cm

c. 400 cm

d. 100 cm

e. 500 cm

52. The ratio of ages between two person A and B five years ago was 5 : 3 (+1, -0.25) and the ratio of the ages of A and B after 7 years will be 3 : 2, then find the present age of A.

a. 60 years

b. 35 years

c. 65 years

d. 40 years

e. 45 years

53. If three dice are rolled simontaneously then find the probability of getting three sixes. (+1, -0.25)

a. $\frac{1}{12}$

b. $\frac{1}{36}$

c. $\frac{1}{18}$

d. $\frac{1}{6}$

e. $\frac{1}{216}$

54. Find the missing number in the given series: (+1, -0.25)

2, 6, 15, 35, 77, ?

- a. 163
- b. 196
- c. 165
- d. 198
- e. 199

55. Find the missing number in the given series:

(+1, -0.25)

2.5, 4.5, 12, 40, 165, ?

- a. 835
- b. 831
- c. 941
- d. 1050
- e. 665

56. Find the missing number in the given series:

(+1, -0.25)

400, 201, 202, 304, 609, ?

- a. 1548
- b. 1563.5
- c. 1513.5

d. 1558

e. 1523.5

57. Find the missing number in the given series:

(+1, -0.25)

1822, 607, 202, 67, 22, ?

a. 5

b. 6

c. 7

d. 8

e. 9

58. Find the missing number in the given series:

(+1, -0.25)

18, 22.5, 20.5, 25, 23, ?

a. 26.5

b. 25.5

c. 29.5

d. 22.5

e. 27.5

59. Directions: Read the following information carefully and answer the given questions:-

(+1, -0.25)

There are two Indoor games such as Chess and Carrom played by some boys and girls. The total number of boys playing indoor games is 50 and the total number of girls playing indoor games is half the number of boys. At the event, 20% of the total boys and 40% of total girls have played in Chess. The remaining number of girls and boys played Carrom. One person can play only one game and everyone is playing.

Find the sum of number of boys who have played Carrom at the Event and number of girls who have played Chess at the Event.

- a. 50
- b. 30
- c. 10
- d. 15
- e. 20

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

There are two Indoor games such as Chess and Carrom played by some boys and girls. The total number of boys playing indoor games is 50 and the total number of girls playing indoor games is half the number of boys. At the event, 20% of the total boys and 40% of total girls have played in Chess. The remaining number of girls and boys played Carrom. One person can play only one game and everyone is playing.

Find the ratio of boys and girls who have played Chess in the event.

- a. 1:1
- b. 1:2
- c. 2:1

d. 8 : 3

e. 3 : 8

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

There are two Indoor games such as Chess and Carrom played by some boys and girls. The total number of boys playing indoor games is 50 and the total number of girls playing indoor games is half the number of boys. At the event, 20% of the total boys and 40% of total girls have played in Chess. The remaining number of girls and boys played Carrom. One person can play only one game and everyone is playing.

Number of girls playing chess is what percent more/less than number of boys playing carrom.

a. 75%

b. 30%

c. 40%

d. 50%

e. 60%

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

There are two Indoor games such as Chess and Carrom played by some boys and girls. The total number of boys playing indoor games is 50 and the total number of girls playing indoor games is half the number of boys. At the event, 20% of the total boys and 40% of total girls have played in Chess. The remaining number of girls and boys played Carrom. One person can play only one game and everyone is playing.

Find the total number of individual playing Carrom in the event.

- a. 55
- b. 35
- c. 45
- d. 25
- e. 15

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

There are two Indoor games such as Chess and Carrom played by some boys and girls. The total number of boys playing indoor games is 50 and the total number of girls playing indoor games is half the number of boys. At the event, 20% of the total boys and 40% of total girls have played in Chess. The remaining number of girls and boys played Carrom. One person can play only one game and everyone is playing.

Find the Difference between number of girls playing Carrom and number of boys playing Chess.

- a. 25
- b. 15
- c. 5
- d. 10
- e. 20

64. Two equal pots of milk and water are mixed together in the ratio 7 : 6. If the ratio of milk and water in the first pot was 4 : 1 and the ratio of milk and water in the second pot was 2 : 3 then find by how much percent the quantity of milk was more than the water in the final mixture? **(+1, -0.25)**
- a. 40%
 - b. 25%
 - c. 30%
 - d. 60%
 - e. 50%
-
65. Three person A, B, and C can complete a task by working alone in 24, 36, and 18 days respectively. If they started working together and B left the job after 5 days and C left the job 2 days before the completion of work then find in how many days the work will be completed? **(+1, -0.25)**
- a. 12 days
 - b. 12.5 days
 - c. 10 days
 - d. 15 days
 - e. 8 days

Reasoning Ability

66. Directions: Study the following information carefully to answer the given questions: (+1, -0.25)

Six boxes labelled as P, Q, R, S, T, U were kept in the form of a stack (vertical arrangement) but not necessarily in the same order. Each of the boxes is painted in a different colour. The colours of the boxes were orange, yellow, purple, indigo, red and blue but not necessarily in the same order.

There are two boxes between S and T. S is immediately below the indigo box. There are two boxes between the red and purple boxes. P is kept immediately below the orange box. The colour of box Q is not red. T is not placed above S. Only blue box is kept between Q and the indigo box. The yellow box is kept third from the bottom of the stack. The yellow box is kept below U.

Which of the following boxes is placed at the top of the stack?

- a. P
- b. Q
- c. U
- d. S
- e. T

67. Directions: Study the following information carefully to answer the given questions: (+1, -0.25)

Six boxes labelled as P, Q, R, S, T, U were kept in the form of a stack (vertical arrangement) but not necessarily in the same order. Each of the boxes is painted in a different colour. The colours of the boxes were

orange, yellow, purple, indigo, red and blue but not necessarily in the same order.

There are two boxes between S and T. S is immediately below the indigo box. There are two boxes between the red and purple boxes. P is kept immediately below the orange box. The colour of box Q is not red. T is not placed above S. Only blue box is kept between Q and the indigo box. The yellow box is kept third from the bottom of the stack. The yellow box is kept below U.

How many boxes are placed below box Q?

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

68. Directions: Study the following information carefully to answer the given questions. (+1, -0.25)

Six boxes labelled as P, Q, R, S, T, U were kept in the form of a stack (vertical arrangement) but not necessarily in the same order. Each of the boxes is painted in a different colour. The colours of the boxes were orange, yellow, purple, indigo, red and blue but not necessarily in the same order.

There are two boxes between S and T. S is immediately below the indigo box. There are two boxes between the red and purple boxes. P is kept immediately below the orange box. The colour of box Q is not red. T is not placed above S. Only blue box is kept between Q and the indigo box. The

yellow box is kept third from the bottom of the stack. The yellow box is kept below U.

What is the colour of box U?

- a. Yellow
- b. Indigo
- c. Blue
- d. Purple
- e. Orange

-
69. Directions: Study the following information carefully to answer the given questions: (+1, -0.25)

Six boxes labelled as P, Q, R, S, T, U were kept in the form of a stack (vertical arrangement) but not necessarily in the same order. Each of the boxes is painted in a different colour. The colours of the boxes were orange, yellow, purple, indigo, red and blue but not necessarily in the same order.

There are two boxes between S and T. S is immediately below the indigo box. There are two boxes between the red and purple boxes. P is kept immediately below the orange box. The colour of box Q is not red. T is not placed above S. Only blue box is kept between Q and the indigo box. The yellow box is kept third from the bottom of the stack. The yellow box is kept below U.

Which of the following boxes is coloured orange?

- a. P
- b. Q

c. R

d. S

e. T

70. Directions: Study the following information carefully to answer the given questions: (+1, -0.25)

Six boxes labelled as P, Q, R, S, T, U were kept in the form of a stack (vertical arrangement) but not necessarily in the same order. Each of the boxes is painted in a different colour. The colours of the boxes were orange, yellow, purple, indigo, red and blue but not necessarily in the same order.

There are two boxes between S and T. S is immediately below the indigo box. There are two boxes between the red and purple boxes. P is kept immediately below the orange box. The colour of box Q is not red. T is not placed above S. Only blue box is kept between Q and the indigo box. The yellow box is kept third from the bottom of the stack. The yellow box is kept below U.

Identify the correct combination among the following.

a. S - Orange

b. T - Red

c. P - Indigo

d. Q - Purple

e. R - Red

71. If it is possible to make only one meaningful English word with the first, the fifth, the seventh, and the eleventh letters of the word COMPREHENSION, (+1, -0.25)

which of the following will be the third letter of that word? If no such word can be made give 'X' as the answer and if more than one such word can be made give 'Y' as the answer.

- a. R
- b. C
- c. X
- d. Y
- e. O

72. Five girls A, B, C, D, E decided to meet at a movie theatre after their college hours. Four people arrived before D. C did not arrive after A. B is not the first girl to arrive at the theatre. Only one person arrived after E. Who among the following arrived second at the theatre? (+1, -0.25)

- a. A
- b. B
- c. C
- d. E
- e. Cannot be determined

73. **Direction:** Read the following information carefully and answer the question that follows. (+1, -0.25)

Eight friends A, B, C, D, E, F, G and H are sitting in a circle, but not necessarily in the same order. Four of them are facing outside and four of them are facing the centre.

F sits second to right of E, who faces the centre. There are three friends sit between E and D. A and B face opposite direction (i.e. if B faces the centre then A faces outside and vice versa). C is not an immediate neighbor of A. A sits second to the right of B. F is an immediate neighbor of B, who faces outside the centre. B and E face opposite direction (i.e. if B faces the centre then E faces outside and vice versa). Immediate neighbour of C face the same direction (i.e. If one neighbour faces the centre then the other also faces the centre and vice-versa). H is an immediate neighbor of D. A sits second to the right of G. Immediate left neighbour of G face the opposite direction.

What is H's position with respect to A?

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

Your Personal Exams Guide

74. Direction: Read the following information carefully and answer the question that follows. (+1, -0.25)

Eight friends A, B, C, D, E, F, G and H are sitting in a circle, but not necessarily in the same order. Four of them are facing outside and four of them are facing the centre.

F sits second to right of E, who faces the centre. There are three friends sit between E and D. A and B face opposite direction (i.e. if B faces the centre then A faces outside and vice versa). C is not an immediate neighbor of A. A sits second to the right of B. F is an immediate neighbor of B, who faces outside the centre. B and E face opposite direction (i.e. if B faces the centre then E faces outside and vice versa). Immediate neighbour of

C face the same direction (i.e. If one neighbour faces the centre then the other also faces the centre and vice-versa). H is an immediate neighbor of D. A sits second to the right of G. Immediate left neighbour of G face the opposite direction.

Who among the following sits immediate left of E?

- a. C
- b. A
- c. G
- d. B
- e. H

75. **Direction:** Read the following information carefully and answer the question that follows. (+1, -0.25)

Eight friends A, B, C, D, E, F, G and H are sitting in a circle, but not necessarily in the same order. Four of them are facing outside and four of them are facing the centre.

F sits second to right of E, who faces the centre. There are three friends sit between E and D. A and B face opposite direction (i.e. if B faces the centre then A faces outside and vice versa). C is not an immediate neighbor of A. A sits second to the right of B. F is an immediate neighbor of B, who faces outside the centre. B and E face opposite direction (i.e. if B faces the centre then E faces outside and vice versa). Immediate neighbour of C face the same direction (i.e. If one neighbour faces the centre then the other also faces the centre and vice-versa). H is an immediate neighbor of D. A sits second to the right of G. Immediate left neighbour of G face the opposite direction.

How many persons sit between A and C when counted from the right of A?

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

76. **Direction:** Read the following information carefully and answer the question that follows. (+1, -0.25)

Eight friends A, B, C, D, E, F, G and H are sitting in a circle, but not necessarily in the same order. Four of them are facing outside and four of them are facing the centre.

F sits second to right of E, who faces the centre. There are three friends sit between E and D. A and B face opposite direction (i.e. if B faces the centre then A faces outside and vice versa). C is not an immediate neighbor of A. A sits second to the right of B. F is an immediate neighbor of B, who faces outside the centre. B and E face opposite direction (i.e. if B faces the centre then E faces outside and vice versa). Immediate neighbour of C face the same direction (i.e. If one neighbour faces the centre then the other also faces the centre and vice-versa). H is an immediate neighbor of D. A sits second to the right of G. Immediate left neighbour of G face the opposite direction.

Four are the same in a certain way thus forms a group. Which among the following does not belong to the group?

- a. D

- b. H
- c. G
- d. E
- e. A

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

Eight friends A, B, C, D, E, F, G and H are sitting in a circle, but not necessarily in the same order. Four of them are facing outside and four of them are facing the centre.

F sits second to right of E, who faces the centre. There are three friends sit between E and D. A and B face opposite direction (i.e. if B faces the centre then A faces outside and vice versa). C is not an immediate neighbor of A. A sits second to the right of B. F is an immediate neighbor of B, who faces outside the centre. B and E face opposite direction (i.e. if B faces the centre then E faces outside and vice versa). Immediate neighbour of C face the same direction (i.e. If one neighbour faces the centre then the other also faces the centre and vice-versa). H is an immediate neighbor of D. A sits second to the right of G. Immediate left neighbour of G face the opposite direction.

Who amongst the following sits exactly between E and D?

- a. C
- b. F
- c. H
- d. B
- e. Either 'C' or 'F'

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

In a family of three generations, A is the father of B. K is the aunt of P. B does not have any siblings. P is the son of B. J has only one child. G is the parent of K. J is the husband of B.

How is K related to B?

- a. Sister
- b. Brother
- c. Daughter
- d. Sister-in-law
- e. Mother

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

In a family of three generations, A is the father of B. K is the aunt of P. B does not have any siblings. P is the son of B. J has only one child. G is the parent of K. J is the husband of B.

How is G related to P?

- a. Grandfather
- b. Grandmother
- c. Mother
- d. Father

e. Cannot be determined

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

In a family of three generations, A is the father of B. K is the aunt of P. B does not have any siblings. P is the son of B. J has only one child. G is the parent of K. J is the husband of B.

How is A related to J?

- a. Father
- b. Mother-in-law
- c. Father-in-law
- d. Husband
- e. Brother

81. Ten people A, B, C, D, E, F, G, H, I and J live on five different floors of a building. Two people live on each floor but not necessary in the same order. Ground floor is numbered 1, floor above it is numbered 2 and so on till topmost floor which is numbered as 5. There are two flats on each floor- flat 1 and flat 2 such that flat-1 is west of flat-2. Flat-1 of floor-2 is exactly above the flat-1 of floor-1 and so on. (+1, -0.25)

F lives on third floor. There is a gap of one floor between A and F, but both of them lives on same flat. D lives in the north west of J. C lives two floor above H. H lives on ground floor. B lives four floor above A, but both of them lives on different flat. D lives on the top floor. There is a gap of two floor between G and D. G lives on odd flat number. E live in the west of I.

J lives on which of the following floor and flat?

- a. Floor -3, Flat - 1
- b. Floor -2, Flat - 1
- c. Floor -4, Flat - 2
- d. Floor -2, Flat - 2
- e. Floor -1, Flat - 2

82. Ten people A, B, C, D, E, F, G, H, I and J live on five different floors of a building. Two people live on each floor but not necessary in the same order. Ground floor is numbered 1, floor above it is numbered 2 and so on till topmost floor which is numbered as 5. There are two flats on each floor- flat 1 and flat 2 such that flat-1 is west of flat-2. Flat-1 of floor-2 is exactly above the flat-1 of floor-1 and so on. (+1, -0.25)

F lives on third floor. There is a gap of one floor between A and F, but both of them lives on same flat. D lives in the north west of J. C lives two floor above H. H lives on ground floor. B lives four floor above A, but both of them lives on different flat. D lives on the top floor. There is a gap of two floor between G and D. G lives on odd flat number. E live in the west of I.

How many floors are there between H and F?

- a. One
- b. Two
- c. Three
- d. Four
- e. None

- 83.** Ten people A, B, C, D, E, F, G, H, I and J live on five different floors of a building. Two people live on each floor but not necessary in the same order. Ground floor is numbered 1, floor above it is numbered 2 and so on till topmost floor which is numbered as 5. There are two flats on each floor- flat 1 and flat 2 such that flat-1 is west of flat-2. Flat-1 of floor-2 is exactly above the flat-1 of floor-1 and so on. (+1, -0.25)

F lives on third floor. There is a gap of one floor between A and F, but both of them lives on same flat. D lives in the north west of J. C lives two floor above H. H lives on ground floor. B lives four floor above A, but both of them lives on different flat. D lives on the top floor. There is a gap of two floor between G and D. G lives on odd flat number. E live in the west of I.

Who lives immediate above B?

- a. J
- b. F
- c. A
- d. C
- e. No one

- 84.** Ten people A, B, C, D, E, F, G, H, I and J live on five different floors of a building. Two people live on each floor but not necessary in the same order. Ground floor is numbered 1, floor above it is numbered 2 and so on till topmost floor which is numbered as 5. There are two flats on each floor- flat 1 and flat 2 such that flat-1 is west of flat-2. Flat-1 of floor-2 is exactly above the flat-1 of floor-1 and so on. (+1, -0.25)

F lives on third floor. There is a gap of one floor between A and F, but both of them lives on same flat. D lives in the north west of J. C lives two floor above H. H lives on ground floor. B lives four floor above A, but both of

them lives on different flat. D lives on the top floor. There is a gap of two floor between G and D. G lives on odd flat number. E live in the west of I.

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

- a. D
- b. I
- c. F
- d. G
- e. A

85. Ten people A, B, C, D, E, F, G, H, I and J live on five different floors of a building. Two people live on each floor but not necessary in the same order. Ground floor is numbered 1, floor above it is numbered 2 and so on till topmost floor which is numbered as 5. There are two flats on each floor- flat 1 and flat 2 such that flat-1 is west of flat-2. Flat-1 of floor-2 is exactly above the flat-1 of floor-1 and so on. (+1, -0.25)

F lives on third floor. There is a gap of one floor between A and F, but both of them lives on same flat. D lives in the north west of J. C lives two floor above H. H lives on ground floor. B lives four floor above A, but both of them lives on different flat. D lives on the top floor. There is a gap of two floor between G and D. G lives on odd flat number. E live in the west of I.

On which of the following floor does I live?

- a. Floor-1
- b. Floor-2
- c. Floor-3

d. Floor-4

e. Floor-5

86. In a certain code, 'FAKE' is written as '#@&5' and 'TROLL' is written as '9+>%%'. Then, how is 'LETTER' written in that code? (+1, -0.25)

a. %5995+

b. %9559+

c. %5995#

d. %9595+

e. %5995@

87. **Directions:** In the following question assuming the given statements to be True, find which of the conclusion among given conclusions is/are definitely true and then give your answers accordingly. (+1, -0.25)

Statements: $P > Q < T < Y \geq W$; $X = R > T = S \leq V = L$

Conclusions:

I. $P \geq V$

II. $X > W$

a. Only II is True

b. Only I is True

c. Both I and II are True

d. Either I or II is True

e. None is true

88. **Direction:** Read the following information carefully and answer the questions that follow: (+1, -0.25)

An uncertain number of people are sitting in a row facing north. A is sitting seventh to the left of B. 10 people are sitting between C and D. E is sitting fourth to the right of B. C is sitting to the immediate right of A. C is sitting at the 6th position from the left end. Seven people are sitting between D and F. There is an odd number of people standing in the row. F is sitting to the right side of the D.

How many people are sitting in the row?

- a. 21
- b. 23
- c. 25
- d. 27
- e. 17

89. **Direction:** Read the following information carefully and answer the questions that follow: (+1, -0.25)

An uncertain number of people are sitting in a row facing north. A is sitting seventh to the left of B. 10 people are sitting between C and D. E is sitting fourth to the right of B. C is sitting to the immediate right of A. C is sitting at the 6th position from the left end. Seven people are sitting between D and F. There is an odd number of people standing in the row. F is sitting to the right side of the D.

How many people are sitting to the left of B?

- a. 14

- b. 15
- c. 10
- d. 11
- e. 8

90. **Direction:** Read the following information carefully and answer the questions that follow: (+1, -0.25)

An uncertain number of people are sitting in a row facing north. A is sitting seventh to the left of B. 10 people are sitting between C and D. E is sitting fourth to the right of B. C is sitting to the immediate right of A. C is sitting at the 6th position from the left end. Seven people are sitting between D and F. There is an odd number of people standing in the row. F is sitting to the right side of the D.

How many people are standing between E and F?

- a. Three
- b. Four
- c. Nine
- d. Eleven
- e. Eight

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

A is 20 m to the north of Z. B is 60 m to the east of Z. B is 20 m to the south of J. S is 5 m south of B. Q is 5 m to the west of A. R is 60 m to the west of S.

Q is in which direction with respect to S?

- a. North – East
- b. South – East
- c. North – West
- d. West
- e. South – West

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

A is 20 m to the north of Z. B is 60 m to the east of Z. B is 20 m to the south of J. S is 5 m south of B. Q is 5 m to the west of A. R is 60 m to the west of S.

What is the shortest distance between A and R?

- a. 30 m
- b. 25 m
- c. 35 m
- d. 60 m
- e. 20 m

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

A is 20 m to the north of Z. B is 60 m to the east of Z. B is 20 m to the south of J. S is 5 m south of B. Q is 5 m to the west of A. R is 60 m to the west of S.

If W is 5 meters towards the south of S then what is the distance between J and W?

- a. 25 m
- b. 35 m
- c. 20 m
- d. 60 m
- e. 30 m

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

There are six persons namely, P, Q, R, S, T, and U. They all belong to different cities namely, Delhi, Lucknow, Chennai, Kolkata, Mumbai, and Pune but not necessarily in the same order. They have different posts in their respective offices. The posts are Chairman, General Manager, Senior Manager, Manager, Assistant manager, and Clerk in the descending order of seniority. Chairman being the highest post and Clerk being the lowest post.

P belongs to Mumbai and has the lowest post. Two persons have their post between clerk and the person who belongs to Chennai. R is the senior manager and is just senior to T who belongs to Kolkata. The one who belongs to Lucknow is senior to T, but is not the senior most person. U belongs to Delhi and is junior to S. Q is the General Manager.

Who belongs to Pune?

- a. P
- b. Q
- c. R

d. S

e. T

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

There are six persons namely, P, Q, R, S, T, and U. They all belong to different cities namely, Delhi, Lucknow, Chennai, Kolkata, Mumbai, and Pune but not necessarily in the same order. They have different posts in their respective offices. The posts are Chairman, General Manager, Senior Manager, Manager, Assistant manager, and Clerk in the descending order of seniority. Chairman being the highest post and Clerk being the lowest post.

P belongs to Mumbai and has the lowest post. Two persons have their post between clerk and the person who belongs to Chennai. R is the senior manager and is just senior to T who belongs to Kolkata. The one who belongs to Lucknow is senior to T, but is not the senior most person. U belongs to Delhi and is junior to S. Q is the General Manager.

What is the post of U?

- a. Manager
- b. General Manager
- c. Chairman
- d. Senior Manager
- e. Assistant Manager

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

There are six persons namely, P, Q, R, S, T, and U. They all belong to different cities namely, Delhi, Lucknow, Chennai, Kolkata, Mumbai, and Pune but not necessarily in the same order. They have different posts in their respective offices. The posts are Chairman, General Manager, Senior Manager, Manager, Assistant manager, and Clerk in the descending order of seniority. Chairman being the highest post and Clerk being the lowest post.

P belongs to Mumbai and has the lowest post. Two persons have their post between clerk and the person who belongs to Chennai. R is the senior manager and is just senior to T who belongs to Kolkata. The one who belongs to Lucknow is senior to T, but is not the senior most person. U belongs to Delhi and is junior to S. Q is the General Manager.

How many persons have their posts between Q and U?

- a. One
- b. Two
- c. Three
- d. Four
- e. None

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

(+1, -0.25)

There are six persons namely, P, Q, R, S, T, and U. They all belong to different cities namely, Delhi, Lucknow, Chennai, Kolkata, Mumbai, and Pune but not necessarily in the same order. They have different posts in their respective offices. The posts are Chairman, General Manager, Senior Manager, Manager, Assistant manager, and Clerk in the descending order of seniority. Chairman being the highest post and Clerk being the lowest post.

P belongs to Mumbai and has the lowest post. Two persons have their post between clerk and the person who belongs to Chennai. R is the senior manager and is just senior to T who belongs to Kolkata. The one who belongs to Lucknow is senior to T, but is not the senior most person. U belongs to Delhi and is junior to S. Q is the General Manager.

Who belongs to Lucknow?

- a. R
- b. S
- c. Q
- d. U
- e. P

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

There are six persons namely, P, Q, R, S, T, and U. They all belong to different cities namely, Delhi, Lucknow, Chennai, Kolkata, Mumbai, and Pune but not necessarily in the same order. They have different posts in their respective offices. The posts are Chairman, General Manager, Senior Manager, Manager, Assistant manager, and Clerk in the descending order of seniority. Chairman being the highest post and Clerk being the lowest post.

P belongs to Mumbai and has the lowest post. Two persons have their post between clerk and the person who belongs to Chennai. R is the senior manager and is just senior to T who belongs to Kolkata. The one who belongs to Lucknow is senior to T, but is not the senior most person. U belongs to Delhi and is junior to S. Q is the General Manager.

Which pair of name – city – post is correct?

- a. R – Chennai – Senior Manager
 - b. P – Mumbai – Assistant Manager
 - c. S – Delhi – Chairman
 - d. T – Kolkata – Clerk
 - e. U – Pune – General Manager
-

99. **Direction:** In the following question assuming the given statements to be True, find which of the conclusion among given conclusions is/are definitely true and then give your answers accordingly. (+1, -0.25)

Statements:

$$A \leq M \geq I > T < Y; R \leq E < A \geq D$$

Conclusions:

I. $D \leq Y$

II. $M > E$

- a. Only II is true
 - b. Only I is true
 - c. Both I and II are true
 - d. Either I or II is true
 - e. None follows
-

100. **Direction:** In the following question assuming the given statements to be True, find which of the conclusion among given conclusions is/are definitely true and then give your answers accordingly. (+1, -0.25)

Statements:

$$L < B > M = U \geq T; Y \leq R \leq L$$

Conclusions:

I. $T < B$

II. $B > Y$

- a. Only II is true
- b. Only I is true
- c. Both I and II are true
- d. Either I or II is true
- e. None follows

Prepp

Your Personal Exams Guide

Answers

1. Answer: c

Explanation:

The correct answer is **option 3**.

★ Key Points

The line containing the correct answer has been clearly mentioned in the passage- "These technologies improve not only very common areas of our daily life, but also areas of education, health, production industries, and so on."

2. Answer: e

Explanation:

The correct answer is **option 5- 10, 109**.

★ Key Points

It has been clearly mentioned in the passage- "Due to the limited space, only 10 papers from the initial 109 manuscripts have been selected."

3. Answer: c

Explanation:

The correct answer is **option 3**.

★ Key Points

Option 3 contains the phrase 'folder system' while the passage has the phrase 'file system'- hence, option 3 is the correct answer.

All the other options have been mentioned in the passage.

4. Answer: e

Explanation:

The correct answer is **option 5- 2 and 3.**

★ Key Points

Pivotal : of crucial importance

★ Additional Information

The meaning of the other words-

Peripheral : of secondary or minor importance; marginal

Thus we can determine that both options 2 and 3 together will be the correct answer.

Your Personal Exams Guide

5. Answer: d

Explanation:

The correct answer is **option 4- Cutting-edge.**

★ Key Points

Cutting-edge: the latest or most advanced stage in the development of something

★ Additional Information

The meaning of the other words-

Regressive, **obsolete**, and **backward** are all synonyms or near-synonyms- 'returning to a former or less developed state, going backwards'

6. Answer: c

Explanation:

The correct answer is **option 3- Global**

★ Key Points

Global: relating to the whole world; worldwide

★ Additional Information

The meaning of the other words-

- **American** : relating to or characteristic of the United States or its inhabitants.
- **Indian** : relating to or characteristic of India or its inhabitants.
- **Local** : relating or restricted to a particular area of one's neighbourhood
- **Shoddy** : badly made or done.

★ Important Points

If we need to analyze a trend in detail, we need to collect global data. Limiting ourselves to local or country-specific data will not suffice.

7. Answer: b

Explanation:

The correct answer is **option 2.**

★ Key Points

- Reading the passage we find the following lines:

- "The objective of this special issue is to present a collection of articles that cover recent research results and comprehensive reviews on relevant computer and software technologies. *In particular, it aims to present highly technical papers describing the areas mentioned above: **distributed parallel processing, advanced software engineering, image processing, and security solutions.***"
- Thus it is very clear that the correct answer is **Option 2**

★ Mistake Points

- One might tend to choose option 1 as the correct answer seeing the first line, but it is wrong.
- The first line is conveying the broader objective and the question specifically asks for the **particular aim**.
- The particular **aim** is mentioned later in the above-given lines:
 - *In particular, it aims to present highly technical papers describing the areas mentioned above: distributed parallel processing, advanced software engineering, image processing, and security solutions.*
- Thus option 2 is the correct answer.

Thus, option 2 is the correct answer as it goes into the 'particular', without remaining general and subjective.

Your Personal Exams Guide

8. Answer: a

Explanation:

The correct answer is **option 1- A period of 10 years**

★ Key Points

Decade : a period of ten years

9. Answer: b

Explanation:

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



Explanation-

- Let's look at the meanings of the given words-
 - **Ethics** means moral principles that govern a person's behaviour or the conducting of an activity.
 - **Overdue** means not having arrived, happened, or been done by the expected time.
 - **Pertain** means be appropriate, related, or applicable to.
 - **Incite** means encourage or stir up (violent or unlawful behaviour).
 - **Regime** means a government, especially an authoritarian one.
- The **first blank** requires a verb and the **second blank** requires a noun.
- The sentence talks about what the **ruler** feared i.e. the **rituals** that can be used for **rebellion** against his rule.
- So, '**incite**' is the most appropriate answer for the **first blank** as it correctly describes the act of encouraging **rebellion**.
- '**Regime**' is a proper fit for the **second blank** as it tells what is going to be affected by the **rebellion**.

Correct sentence- Like many previous rulers, Saddam Hussain feared that the rituals would be used in order to **incite** rebellion against his **regime**, that the pilgrimage would turn into a protest.

10. Answer: a

Explanation:

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



Explanation-

- Let's look at the meanings of the given words-
 - **Intervening** means take part in something so as to prevent or alter a result or course of events.
 - **Assuming** means suppose to be the case, without proof.
 - **Grappling** means engage in a close fight or struggle without weapons; wrestle.
 - **Labour** means work, especially physical work.
 - **Crunch** means a severe shortage of money or credit.
- The **first blank** requires **a verb** and the **second** one requires **a noun**.
- Out of all words, we have **2 nouns i.e. D and E**.
- The sentence talks about how the **pandemic** has led many **companies** to remove their **employees**.
- So, ' **financial crunch** ' is the most appropriate answer for the **2nd blank**.
- ' **Grappling** ' is a proper fit for the **first blank** as it describes the **struggle** because of the **pandemic**.

Correct sentence- ***Grappling** with the pandemic-induced financial **crunch** , many companies have had to either lay off or furlough thousands of employees.*

11. Answer: a

Explanation:

The correct answer is option 1 i.e. DE.

★ Key Points

- Let's look at the meanings of the given words-
 - Affirm means state emphatically or publicly.
 - **Sovereign** means possessing supreme or ultimate power.
 - **Unattainable** means not able to be reached or achieved.

- **Unprecedented** means never done or known before.
- **Ripple** means spread through a person, group, or place.
- The **first blank** requires **an adjective** and the **second blank** requires **a verb**.
- The sentence talks about **economic harm** and how it will eventually **affect** other **economies**.
- So, '**unprecedented**' is the most appropriate answer for the **first blank** as it correctly describes the **economic harm**.
- '**Ripple**' is a proper fit for the **second blank** as it states the **process** of affecting the **world's economies** eventually.

Correct sentence- *The total cost would amount to 69% of current GDP for the typical country – a potentially **unprecedented** economic harm that will "**ripple** through the world's economies in ways that will be felt far into the future.*

12. Answer: d

Explanation:

The correct answer is option 4 i.e. CD.

★ Key Points

- Let's look at the meanings of the given words-
 - **Demolishing** means comprehensively refute (an argument or its proponent).
 - **Passive** means accepting or allowing what happens or what others do, without active response or resistance.
 - **Urging** means try earnestly or persistently to persuade (someone) to do something.
 - **Imperative** means of vital importance; crucial.
 - **Authorizing** means to give official permission for or approval to (an undertaking or agent).
- The **first blank** requires a verb and the **second blank** requires an adjective.
- The sentence talks about making the **students** understand their **importance** in saving others' **lives**.

- So, ' **urging** ' is the most appropriate answer for the **first blank** as it describes the **act** of convincing **students**.
- ' **Imperative** ' is a proper fit for the **second blank** as it describes the **importance** of their **role**.

Correct sentence- We are **urging** students to understand the **imperative** role that they play in stopping this community spread and, ultimately, saving lives.

13. Answer: a

Explanation:

The correct answer is option 1 i.e. BA.

★ Key Points

- Let's look at the meanings of the given words-
 - **Turmoil** means a state of great disturbance, confusion, or uncertainty.
 - **Precursor** means a person or thing that comes before another of the same kind; a forerunner.
 - **Disguise** means a means of altering one's appearance to conceal one's identity.
 - **Deem** means regard or consider in a specified way.
 - **Assassination** means the action of assassinating someone.
- Both the blanks require **nouns** .
- The sentence talks about an event being **organized** before the **carnival** for a purpose.
- So, ' **precursor** ' is the most appropriate answer for the **first blank** as it correctly defines an **event** conducted before the **carnival**.
- The infinitive ' **to** ' in the sentence states that the word must be linked to the **carnival**.
- ' **Turmoil** ' is a proper fit for the **second blank**.

Correct sentence- The next year, Black activist Claudia Jones organized a **precursor** to the carnival, a dance at St. Pancras town hall that raised money for the defense of those arrested in the **turmoil**.

14. Answer: b

Explanation:

The correct answer is **option 2**.

The sentence suggests that both the blanks require positive words and both of those words should be along the same lines in terms of meaning and should be connected.

- Option 1 is rejected because the words do not make the sentence meaningful. ' **Embraced** ' means 'accepted' or 'welcomed' and ' **influenced** ' means 'affected'. The word 'embraced' cannot be used in terms of 'prosperity' here. A person cannot be 'accepted' by 'prosperity'. However, a person can 'accept prosperity'.
- Option 3 is rejected because it does not form a meaningful sentence. ' **Integrated** ' means 'united' and ' **intensified** ' means 'increased' or 'raised'. 'United by prosperity but not increased by it...' does not make any sense. There is no connection between these two words.
- Option 4 is rejected because it does not form a meaningful sentence. One cannot be ' **educated** ' by 'prosperity'.
- Option 5 is rejected because the words do not make the sentence meaningful. ' **Created** ' means 'produced' and 'corrected' means 'rectified'. 'Produced by prosperity but not corrected by it...' does not make any sense.

This leaves us with **option 2** to be the only correct answer.

The word ' **liberated** ' means 'released' or 'discharged' and ' **fulfilled** ' means 'satisfied'. Both of these together make the sentence meaningful.

The complete sentence is:

***Liberated** by prosperity but not **fulfilled** by it, more and more people are searching for meaning.*

15. Answer: b

Explanation:

The correct answer is **2**. The error is in the determiner of the second part of the sentence. The indefinite articles are 'a' and 'an' and are used based on the vowel or consonant sound of the word that follows them. Thus 'a' is for consonant sounds and 'an' is for vowel sounds, but some words start with a consonant but have the sound of a vowel thus require 'an'. Thus 'a' needs to be replaced with 'an' to make the sentence grammatically correct.

16. Answer: b

Explanation:

The correct option is **2**.

★ **Key Points**

- The error is in the preposition of the sentence.
- The implicit meaning of the sentence is that the restaurant manager gave the health inspector a bribe due to the unhygienic kitchen.
- Thus the preposition 'pay for' – **to pay on behalf of somebody** – needs to be replaced with 'pay off' – **to bribe someone** – to make the sentence make sense.

Correct sentence: *"The restaurant manager decided to pay off the health inspector for the unhygienic kitchen."*

17. Answer: a

Explanation:

The correct option is 1.

★ Key Points

- The error is in the determiner in the first part of the sentence.
- ' **Less** ' is used with uncountable quantities whereas ' **few** ' is used for numbers for countable quantities and since the quantity in question here is people, 'less' will be replaced with ' **few** ' .

Correct sentence: "*Very few people have ever been able to go down a live volcano and have lived to tell the tale.*"

18. **Answer: a**

Explanation:

The correct answer is **1**. The error is in the preposition of the sentence. The preposition 'met with' needs to be replaced with 'met' – which means to come face to face with something or someone. 'Met with' can be used when talking in reference to an experience – for e.g. an accident.

19. **Answer: a**

Explanation:

The correct answer is **1**. The error is in the preposition of the sentence. The preposition 'insisted to' has no meaning and needs to be replaced with 'insisted on' – to keep doing something until the other person complies.

20. **Answer: e**

Explanation:

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



Explanation

Let us look at the meanings of the highlighted words:

- **Refused** (past tense): indicated or showed that one is not willing to do something.
- **Groom** (noun): a bridegroom; husband-to-be.
- **Found** (past tense): discovered or perceived by chance or unexpectedly.
- **Dowry** (noun): an amount of property or money brought by a bride to her husband on their marriage.

The sentence has no errors and thus needs no replacement as all the words have been placed appropriately.

21. **Answer: c**

Explanation:

The correct answer is **option 3 i.e. C-A**

We can look at the sentence in the following way:

By the time the _____ (A) and the fire brigade _____ (B) the _____ (C) of the fire, there were too many _____ (D).



Explanation:

- **Location:** A particular place or position. This noun is followed by the verb 'reached' which involves movement and this is not possible for a 'location' and thus is inappropriate for this blank.
- **Reached:** Past participle of 'reach' which means 'to arrive at a certain place'.

- **Ambulance:** A vehicle equipped with taking the sick or injured people to and from the hospital. **It is grammatically incorrect to say "ambulance of the fire" as it doesn't make any sense.**
- **Casualties:** A person/people killed or injured in a war or an accident (like a fire).

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



Correct Sentence: By the time the **ambulance (A)** and the fire brigade **reached (B)** the **location (C)** of the fire, there were too many **casualties. (D)**

22. Answer: b

Explanation:

The correct answer is **option 2 i.e. A-C**

We can look at the sentence in the following way:

The _____ (A) was _____ (B) _____ (C) during the war with the sea on one side and the _____ (D) on the other.



Explanation:

- **Trapped:** Past participle of 'trap' which means to prevent (someone) from escaping from a place. **This is a verb and cannot be used after the definite article 'the'. It has to be replaced by a noun.**
- **Horribly:** In a way that is shocking and scary, hard to believe.
- **Regiment:** A permanent unit of the army. **The word preceding this blank, 'horribly' is an adverb and by definition 'adds to a verb' and thus needs to precede a verb, while 'regiment' is a noun.**

- **Enemy** : A person is violently hostile or opposed towards someone.

Thus, we need to **interchange A and C** in order to make them contextually correct.



The reader needs to look at all the words and see if they are grammatically appropriate in that particular blank.



Correct Sentence: The **regiment (A)** was **horribly (B)** trapped **(C)** during the war, with the sea on one side and the **enemy (D)** on the other.

23. Answer: a

Explanation:

The correct answer is **option 1 i.e. B-A**

We can look at the sentence in the following way:

Sandra may have been a _____ (A) _____ (B), but she was never openly _____ (C) but her male _____ (D).



Explanation:

- **Politician**: A person who professionally involved in politics and usually holds an elected position. **This is the noun and thus needs to come after the describing word (the adjective - in this case, 'successful').**
- **Successful**: Having achieved fame, wealth, or social status. **This is the adjective, the word describing the noun (in this case 'politician') and thus needs to come before 'politician'.**

- **Supported:** Motivated, assisted and approved of by someone.
- **Peers:** People of the same status, ability and/or position.

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



The reader has to keep the meanings of the words and their order in mind while solving such questions, the words may make sense in terms of their meaning but may be grammatically incorrect.



Correct Sentence: Sandra may have been a **successful (A) politician (B)** but she was never openly **supported (C)** by her male **peers. (D)**

24. **Answer: c**

Explanation:

The correct answer is **option 3 i.e. D-B**

We can look at the sentence in the following way:

Colin _____ (A) to take a road _____ (B) with his best friend Hassan in order to _____ (C) his _____ (D).



Explanation:

- **Decided:** Past tense of 'decide' which means 'to come to a resolution (decision) about something'.

- **Graduation:** The receiving or conferring of an academic degree or diploma. This is not something that can be received on the road, it is a formal event that takes place (usually) in the academic institution. Hence, **it has to be replaced**.
- **Celebrate:** Acknowledge an event with a social gathering and enjoyable activities.
- **Trip:** This is a noun in the context of the sentence and refers to a journey (usually taken for fun purposes). **This is an activity that is usually undertaken in order to celebrate something**, thus it is not ideally the cause of the celebration. Hence **it has to be replaced**.

Thus, we need to **interchange D and B** in order to make it contextually correct.



Correct Sentence: Colin **decided** (A) to take a road **trip** (B) with his best friend Hassan in order to **celebrate** (C) his **graduation** (D).

25. Answer: d

Explanation:

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

We can look at the sentence in the following way:

The man was _____ (A) was a _____ (B) of himself by his best _____ (C) for his 20th _____ (D).



Explanation:

- **Portrait:** A painting, a drawing or photograph of a person depicting only their face or face and shoulders. **A 'portrait' can be made or created 'of a man', but a man himself cannot 'be' a portrait.**

- **Gifted:** Gave someone a present for a special occasion (like a birthday). A person can be 'gifted' (having special talents and abilities) but the 'gifted' here is the past tense of the verb 'gift' and thus cannot be preceded by the article 'a'.
- **Friend:** A person with whom one has a bond of mutual affection.
- **Birthday:** The anniversary of the day one was born.

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



Correct Sentence: The man was **gifted (A)** a **portrait (B)** of himself by his best **friend (C)** for his 30th **birthday (D)**.

26. **Answer: d**

Explanation:

The correct answer is **option 4-D**.

Your Personal  Kams Guide

Explanation

- **The FIRST sentence is D** as it introduces not only the main subject of the passage, i.e., the Congo, but also the subsidiary topic, i.e., the Katanga Panhandle.
- The **SECOND sentence is C** as it provides additional information regarding 'the Congolese territory', i.e., the Katanga Pandhandle. Moreover, it is in continuation of D as both Statements D and C talk about some territory.
- B, which is the **THIRD sentence**, is in continuation of 'C', as Statement C seeks to find a reason for the existence of the aforementioned territory on its surface, and finds none, while Statement B provides the reason which lies below its soil.

- The FOURTH statement is E as it provides the reason why the early *'Belgian colonialists in the late nineteenth-century'*, already introduced in 'D', stubbornly staked the territory. The reason being rich deposits of copper, cobalt and uranium.
- Statement A comes LAST, as it further details how the Belgian colony got rich because of the minerals deposits in Katanga, thereby concluding the passage.
- Thus, the correct sequence is DCBEA.
- *The first sentence is D.*

★ Additional Information

Obstinately: stubbornly refusing to change one's opinion or chosen course of action, despite attempts to persuade one to do so.

Defiance: open resistance; bold disobedience.

Pioneering: develop or be the first to use or apply (a new method, area of knowledge, or activity).

Vestigial: forming a very small remnant of something that was once greater or more noticeable.

Outcrop: a rock formation that is visible on the surface.

Panhandle: a narrow strip of territory projecting from the main territory of one state into another.

Quirk: a peculiar aspect of a person's character or behaviour.

27. Answer: c

Explanation:

The correct answer is **option 3-C**



Explanation

- The **FIRST sentence is D** as it introduces not only the main subject of the passage, i.e., the Congo, but also the subsidiary topic, i.e., the Katanga Panhandle.
- The **SECOND sentence is C** as it provides additional information regarding 'the Congolese territory', i.e., the Katanga Pandhandle. Moreover, it is in continuation of D as both Statements D and C talk about some territory.
- B, which is the **THIRD sentence**, is in continuation of 'C', as Statement C seeks to find a reason for the existence of the aforementioned territory on its surface, and finds none, while Statement B provides the reason which lies below its soil.
- The **FOURTH statement is E** as it provides the reason why the early '*Belgian colonialists in the late nineteenth-century*', already introduced in 'D', stubbornly staked the territory. The reason being rich deposits of copper, cobalt and uranium.
- Statement A comes **LAST**, as it further details how the Belgian colony got rich because of the minerals deposits in Katanga, thereby concluding the passage.
- Thus, the correct sequence is DCBEA.
- *The second sentence is C.*

★ **Additional Information**

Obstinately: stubbornly refusing to change one's opinion or chosen course of action, despite attempts to persuade one to do so.

Defiance: open resistance; bold disobedience.

Pioneering: develop or be the first to use or apply (a new method, area of knowledge, or activity).

Vestigial: forming a very small remnant of something that was once greater or more noticeable.

Outcrop: a rock formation that is visible on the surface.

Panhandle: a narrow strip of territory projecting from the main territory of one state into another.

Quirk: a peculiar aspect of a person's character or behaviour.

28. Answer: b

Explanation:

The correct answer is **option 2-B**



Explanation

- **The FIRST sentence is D** as it introduces not only the main subject of the passage, i.e., the Congo, but also the subsidiary topic, i.e., the Katanga Panhandle.
- The SECOND sentence is C as it provides additional information regarding 'the Congolese territory', i.e., the Katanga Pandhandle. Moreover, it is in continuation of D as both Statements D and C talk about some territory.
- B, which is the THIRD sentence, is in continuation of 'C', as Statement C seeks to find a reason for the existence of the aforementioned territory on its surface, and finds none, while Statement B provides the reason which lies below its soil.
- The FOURTH statement is E as it provides the reason why the early '*Belgian colonialists in the late nineteenth-century*', already introduced in 'D', stubbornly staked the territory. The reason being rich deposits of copper, cobalt and uranium.
- Statement A comes LAST, as it further details how the Belgian colony got rich because of the minerals deposits in Katanga, thereby concluding the passage.
- Thus, the correct sequence is DCBEA.
- *The third sentence is B.*

★ Additional Information

Obstinately: stubbornly refusing to change one's opinion or chosen course of action, despite attempts to persuade one to do so.

Defiance: open resistance; bold disobedience.

Pioneering: develop or be the first to use or apply (a new method, area of knowledge, or activity).

Vestigial: forming a very small remnant of something that was once greater or more noticeable.

Outcrop: a rock formation that is visible on the surface.

Panhandle: a narrow strip of territory projecting from the main territory of one state into another.

Quirk: a peculiar aspect of a person's character or behaviour.

29. Answer: e

Explanation:

The correct answer is **option 5-E**



Explanation

- The FIRST sentence is D as it introduces not only the main subject of the passage, i.e., the Congo, but also the subsidiary topic, i.e., the Katanga Panhandle.
- The SECOND sentence is C as it provides additional information regarding 'the Congolese territory', i.e., the Katanga Pandhandle. Moreover, it is in continuation of D as both Statements D and C talk about some territory.
- B, which is the THIRD sentence, is in continuation of 'C', as Statement C seeks to find a reason for the existence of the aforementioned territory on its surface, and finds none, while Statement B provides the reason which lies below its soil.
- The FOURTH statement is E as it provides the reason why the early '*Belgian colonialists in the late nineteenth-century*', already introduced in 'D', stubbornly staked the territory. The reason being rich deposits of copper, cobalt and uranium.
- Statement A comes LAST, as it further details how the Belgian colony got rich because of the minerals deposits in Katanga, thereby concluding the passage.
- Thus, the correct sequence is DCBEA.
- *The fourth sentence is E.*

★ Additional Information

Obstinately: stubbornly refusing to change one's opinion or chosen course of action, despite attempts to persuade one to do so.

Defiance: open resistance; bold disobedience.

Pioneering: develop or be the first to use or apply (a new method, area of knowledge, or activity).

Vestigial: forming a very small remnant of something that was once greater or more noticeable.

Outcrop: a rock formation that is visible on the surface.

Panhandle: a narrow strip of territory projecting from the main territory of one state into another.

Quirk: a peculiar aspect of a person's character or behaviour.

30. Answer: a

Explanation:

The correct answer is option 1-A

★ Explanation

- The FIRST sentence is D as it introduces not only the main subject of the passage, i.e., the Congo, but also the subsidiary topic, i.e., the Katanga Panhandle.
- The SECOND sentence is C as it provides additional information regarding 'the Congolese territory', i.e., the Katanga Pandhandle. Moreover, it is in continuation of D as both Statements D and C talk about some territory.
- B, which is the THIRD sentence, is in continuation of 'C', as Statement C seeks to find a reason for the existence of the aforementioned territory on its surface, and finds none, while Statement B provides the reason which lies below its soil.
- The FOURTH statement is E as it provides the reason why the early '*Belgian colonialists in the late nineteenth-century*', already introduced in 'D', stubbornly staked the territory. The reason being rich deposits of copper, cobalt and uranium.

- Statement A comes LAST , as it further details how the Belgian colony got rich because of the minerals deposits in Katanga, thereby concluding the passage.
- Thus, the correct sequence is DCBEA.
- *The fifth sentence is A.*

★ Additional Information

Obstinately: stubbornly refusing to change one's opinion or chosen course of action, despite attempts to persuade one to do so.

Defiance: open resistance; bold disobedience.

Pioneering: develop or be the first to use or apply (a new method, area of knowledge, or activity).

Vestigial: forming a very small remnant of something that was once greater or more noticeable.

Outcrop: a rock formation that is visible on the surface.

Panhandle: a narrow strip of territory projecting from the main territory of one state into another.

Quirk: a peculiar aspect of a person's character or behaviour.

31. **Answer: b**

Explanation:

Solution:

i. $x^2 - 18x + 45 = 0$

$$\Rightarrow x^2 - 15x - 3x + 45 = 0$$

$$\Rightarrow x(x - 15) - 3(x - 15) = 0$$

$$\Rightarrow (x - 15)(x - 3) = 0$$

$$\Rightarrow x = 3, 15$$

ii. $y^2 - 5y + 6 = 0$

$$\Rightarrow y^2 - 3y - 2y + 6 = 0$$

$$\Rightarrow y(y - 3) - 2(y - 3) = 0$$

$$\Rightarrow (y - 2)(y - 3) = 0$$

$$\Rightarrow y = 2, 3$$

Value of X	Value of Y	Relation
3	2	$x > y$
15	3	$x > y$
3	3	$x = y$
15	2	$x > y$

Hence, $x \geq y$.

32. Answer: e

Explanation:

$$i. x^2 - 8x + 15 = 0$$

$$\Rightarrow x^2 - 5x - 3x + 15 = 0$$

$$\Rightarrow x(x - 5) - 3(x - 5) = 0$$

$$\Rightarrow (x - 5)(x - 3) = 0$$

$$\Rightarrow x = 3, 5$$

$$\text{ii. } 2y^2 - 9y + 7 = 0$$

$$\Rightarrow 2y^2 - 2y - 7y + 7 = 0$$

$$\Rightarrow 2y(y - 1) - 7(y - 1) = 0$$

$$\Rightarrow (y - 1)(2y - 7) = 0$$

$$\Rightarrow y = 1, 3.5$$

Value of X	Value of Y	Relation
3	1	$x > y$
5	3.5	$x > y$
3	3.5	$x < y$
5	1	$x > y$

Hence, the relation cannot be determined.

33. Answer: e

Explanation:

$$\text{i. } 11x^2 + 18x + 7 = 0$$

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

$$\Rightarrow 11x(x + 1) + 7(x + 1) = 0$$

$$\Rightarrow (x + 1)(11x + 7) = 0$$

$$\Rightarrow x = -1, -7/11$$

$$\text{ii. } 3y^2 + 2y - 1 = 0$$

$$\Rightarrow 3y^2 + 3y - y - 1 = 0$$

$$\Rightarrow 3y(y + 1) - 1(y + 1) = 0$$

$$\Rightarrow (y + 1)(3y - 1) = 0$$

$$\Rightarrow y = -1, 1/3$$

Value of X	Value of Y	Relation
-7/11	-1	$x > y$
-1	1/3	$x < y$
-7/11	1/3	$x < y$
-1	-1	$x = y$

Hence, the relation cannot be determined .

34. Answer: a

Explanation:

i. $x^2 - 9x + 18 = 0$

$\Rightarrow x^2 - 6x - 3x + 18 = 0$

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

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

$\Rightarrow x = 3, 6$

ii. $2y^2 + y - 6 = 0$

$\Rightarrow 2y^2 + 4y - 3y - 6 = 0$

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

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

$\Rightarrow y = -2, 3/2$

Value of X	Value of Y	Relation
3	-2	$x > y$
6	$3/2$	$x > y$
3	$3/2$	$x > y$
6	-2	$x > y$

Hence, $x > y$.

35. Answer: b

Explanation:

$$\text{i. } x^2 - 9 = 0$$

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

$$\Rightarrow x = 3, -3$$

$$\text{ii. } y^2 + 6y + 9 = 0$$

$$\Rightarrow y^2 + 3y + 3y + 9 = 0$$

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

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

$$\Rightarrow y = -3, -3$$

Value of X	Value of Y	Relation
3	-3	$x > y$
-3	-3	$x = y$
3	-3	$x > y$
-3	-3	$x = y$

Hence, $x \geq y$.

36. Answer: a

Explanation:

Given :

A shopkeeper marked the price of an article by 40% above cost price and gave discount of Rs. 224. On the final amount, he charged a tax of 10%. In the whole transaction he earned profit of Rs. 158.6.

Formula Used :

profit = selling price - cost price; selling price = marked price - discount

Calculation :

Let the cost price of the article be Rs. 'x'

⇒ marked price = 40% above cost price = Rs. $1.4x$

also, final amount = $1.4x - 224$

also, On the final amount, he charged a tax of 10% i.e.

⇒ final selling price = $1.1(1.4x - 224)$

⇒ $158.6 = 1.1(1.4x - 224) - x$

⇒ $158.6 + 246.4 = 1.54x - x$

⇒ $x = 405/0.54$

⇒ $x = \text{Rs. } 750$

∴ required cost price = Rs. 750

37. Answer: e

Explanation:

Given:

Ratio of speed of boat and speed of stream = 8 : 1

Distance covered downstream = 54 km

Distance covered upstream = 42 km

Total time taken = 4 hours

Concept used:

Downstream speed = Speed of boat in still water + Speed of stream

Upstream speed = Speed of boat in still water - Speed of stream

Calculation :

Let the speed of boat in still water and speed of stream be '8x' and 'x' km/hr respectively

$$\Rightarrow \text{Upstream speed} = 8x - x = 7x$$

$$\Rightarrow \text{Downstream speed} = 8x + x = 9x$$

Now, according to the question

$$\Rightarrow (54/9x) + (42/7x) = 4$$

$$\Rightarrow (6/x) + (6/x) = 4$$

$$\Rightarrow 12/x = 4$$

$$\Rightarrow x = 3 \text{ km/hr}$$

Downstream speed = $(9 \times 3) \text{ km/hr}$

$$\Rightarrow 27 \text{ km/hr}$$

$\therefore$ Downstream speed is 27 km/hr

38. Answer: a

Explanation:

Total orange sold on Monday = $600 \times 12/100 = 72$

Total orange sold on Wednesday = $600 \times 18/100 = 108$

Total orange sold on Monday and Wednesday = $72 + 108 = 180$

The average number of orange sold on Monday, Wednesday together = $180/2 = 90$

Total orange sold on Tuesday = $600 \times 20/100 = 120$

Total orange sold on Thursday = $600 \times 14/100 = 84$

Total orange sold on Saturday = $600 \times 8/100 = 48$

Total orange sold on Tuesday, Thursday, and Saturday = $120 + 84 + 48 = 252$

The average number of orange sold on Tuesday, Thursday, and Saturday = $252/3 = 84$

Difference = $90 - 84 = 6$

$\therefore$ The difference between the average number of orange sold on Monday, Wednesday to Tuesday, Thursday, and Saturday is 6

★ Alternate Method

Total % of orange sold on Monday and Wednesday together = $12\% + 18\% = 30\%$

Total number of orange sold on Monday and Wednesday together = $600 \times 30/100 = 180$

The average number of orange sold on Monday, Wednesday together = $180/2 = 90$

Total % of orange sold on Tuesday, Thursday, and Saturday together = $20\% + 14\% + 8\% = 42\%$

Total number of orange sold on Tuesday, Thursday, and Saturday together = $600 \times 42/100 = 252$

The average number of orange sold on Tuesday, Thursday, and Saturday = $252/3 = 84$

Difference = $90 - 84 = 6$

$\therefore$ The difference between the average number of orange sold on Monday, Wednesday to Tuesday, Thursday, and Saturday is 6

39. Answer: c

Explanation:

Total oranges sold on Monday = $600 \times 12/100 = 72$

Total oranges sold on Sunday = $600 \times 12/100 = 72$

Total oranges sold on Monday and Sunday = $72 + 72 = 144$

Total oranges sold on Wednesday = $600 \times 18/100 = 108$

Difference between the total oranges sold on Monday and Sunday together to total oranges sold on Wednesday = $144 - 108 = 36$

$\therefore$ The difference between the total oranges sold on Monday and Sunday together to total oranges sold on Wednesday is 36

40. Answer: d

Explanation:

Total % of oranges sold on Tuesday and Friday = 36%

Total % of oranges sold on Wednesday and Sunday = 30%

Required Ratio = $36 : 30 = 6 : 5$

∴ The ratio of oranges sold on Tuesday and Friday to Oranges sold on Wednesday and Sunday is $6 : 5$

41. Answer: e

Explanation:

Total orange sold on Wednesday = $600 \times (18/100) = 108$

Total orange sold on Friday = $600 \times (16/100) = 96$

Total orange sold on Wednesday and Friday = $108 + 96 = 204$

Total orange sold on Monday = $600 \times 12/100 = 72$

Total orange sold on Tuesday = $600 \times 20/100 = 120$

Total orange sold on Saturday = $600 \times 8/100 = 48$

Total orange sold on Monday, Tuesday, and Saturday = $72 + 120 + 48 = 240$

Now required percentage = $[(204 - 240)/240] \times 100 = -15\%$

∴ The total number of oranges sold on Wednesday and Friday together is 15% less than the number of oranges sold on Monday, Tuesday and Saturday together

★ Alternate Method

Total orange sold on Wednesday and Friday = $18\% + 16\% = 34\%$

Total orange sold on Monday, Tuesday, and Saturday = $12 + 20 + 8 = 40\%$

Now required percentage = $[(34 - 40)/40] \times 100 = -15\%$

∴ The total number of oranges sold on Wednesday and Friday together is 15% less than the number of oranges sold on Monday, Tuesday and Saturday together

42. Answer: c

Explanation:

Total orange sold on Tuesday = $600 \times (20/100) = 120$

Total orange sold on Friday = $600 \times (16/100) = 96$

Total orange sold on Tuesday and Friday = $120 + 96 = 216$

We know that, $360^\circ = 600$

$\Rightarrow 600 = 360^\circ$

$\Rightarrow 1 = 360^\circ/600 = 3/5$

$\Rightarrow 216 = (3/5) \times 216 = 648/5 = 129.6^\circ$

$\therefore$ The central angle made by the oranges sold on Tuesday and Friday together is 129.6°

★ Alternate Method

Total orange sold on Tuesday = 20%

Total orange sold on Friday = 16%

Total orange sold on Tuesday and Friday = $20\% + 16\% = 36\%$

So, $100\% = 360$

Then, $36\% = (360/100) \times 36 = 129.6^\circ$

$\therefore$ The central angle made by the oranges sold on Tuesday and Friday together is 129.6°

43. Answer: a

Explanation:

Given :

Amit gave 60% of his salary to his wife and invested rest amount in mutual fund. his wife spend 30% amount on grocery and 20% on rent. From remaining amount she purchased gold Rs. 18000.

Calculation :

Let the salary of Amit be Rs. 'x'

⇒ amount received by Amit's wife = 60% of his salary = $0.6x$

⇒ Amit's wife spends 30% amount on grocery and 20% on rent i.e. $(30\% + 20\%)$ of $0.6x$

⇒ remaing amount with Amit's wife purchased gold Rs. 18000 = $0.6x - 0.3x = 0.3x$

⇒ $0.3x = 18000$

⇒ $x = 60000$

∴ required salary of Amit = Rs. 60000

Your Personal Exams Guide

44. Answer: b

Explanation:

Given :

Two friends Pinki and Rinki entered into partnership by investing an amount of Rs. 6000 and Rs.9000 respectively. The ratio of their time period of investment is 2 : 3 and the profit share of Rinki is Rs.45000

Concept Used :

profit is always distributed in proportional with the product of (investment and time)

Calculation :

Let the time period of investment of Pinki and Rinki be $2x$ and $3x$.

$$\Rightarrow \text{ratio of profit} = 6000 \times 2x : 9000 \times 3x$$

$$\Rightarrow \text{ratio of profit} = 4 : 9$$

$$\Rightarrow \text{profit share of Pinki} = 45000 \times \frac{4}{9} = \text{Rs. } 20000$$

$$\therefore \text{required profit share of Pinki} = \text{Rs. } 20000$$

45. Answer: a

Explanation:

Given :

Time taken to travel certain distance of 'X' km at speed of 40 kmph is 2 hours more than the time taken to travel $(x + 20)$ km at a speed of 60 kmph.

Formula Used :

$$\text{speed} = \text{distance}/\text{time}$$

Calculation :

using the above formulae, we have

$$\Rightarrow x/40 = 2 + (x + 20)/60$$

$$\Rightarrow x/40 - (x + 20)/60 = 2$$

$$\Rightarrow (3x - 2x - 40)/120 = 2$$

$$\Rightarrow x - 40 = 240$$

$$\Rightarrow x = 280 \text{ km}$$

$$\text{time taken to travel } (x + 40) \text{ km} = (280 + 40)/40 = 8 \text{ hr}$$

$$\therefore \text{required time} = 8 \text{ hr}$$

46. Answer: a

Explanation:

From the Bar graph mentioned following data table is prepared.

	Number of male	Total number of people	Number of female
NDTV	2000	4000	2000
Republic	4000	6000	2000
Aaj Tak	2000	3000	1000
Zee News	3000	5000	2000
Quint	5000	8000	3000

Number of female watching news on Aaj Tak = 1000

The total number of male watching news together on NDTV and Zee News = $(2000 + 3000) = 5000$

$$\therefore \text{Required percentage} = (1000/5000) \times 100 = 20\%$$

47. Answer: e

Explanation:

From the Bar graph mentioned following data table is prepared.

	Number of male	Total number of people	Number of female
NDTV	2000	4000	2000
Republic	4000	6000	2000
Aaj Tak	2000	3000	1000
Zee News	3000	5000	2000
Quint	5000	8000	3000

Total number of female watching News on Quint = 3000

Total number of female watching News on Republic = 2000

$\therefore$ Required difference = $3000 - 2000 = 1000$

48. Answer: b

Explanation:

From the Bar graph mentioned following data table is prepared.

	Number of male	Total number of people	Number of female
NDTV	2000	4000	2000
Republic	4000	6000	2000
Aaj Tak	2000	3000	1000
Zee News	3000	5000	2000
Quint	5000	8000	3000

Total number of female watching news from all the News channel together = $2000 + 2000 + 1000 + 2000 + 3000 = 10000$

$\therefore$ Required average = $10000/5 = 2000$

49. Answer: a

Explanation:

From the Bar graph mentioned following data table is prepared.

	Number of male	Total number of people	Number of female
NDTV	2000	4000	2000
Republic	4000	6000	2000
Aaj Tak	2000	3000	1000
Zee News	3000	5000	2000
Quint	5000	8000	3000

The number of males watching NDTV = 2000

The total number of males watching all the news channel together = $(2000 + 4000 + 2000 + 3000 + 5000) = 16000$

$\therefore$ Required percentage = $(2000/16000) \times 100 = 12.5\%$

50. Answer: d

Explanation:

From the Bar graph mentioned following data table is prepared.

	Number of male	Total number of people	Number of female
NDTV	2000	4000	2000
Republic	4000	6000	2000
Aaj Tak	2000	3000	1000
Zee News	3000	5000	2000
Quint	5000	8000	3000

the number of female watching Zee News = 2000

The number of male watching Zee News and Quint = $(3000 + 5000) = 8000$

$\therefore$ Required ratio = $2000 : 8000 = 1 : 4$

51. **Answer: a**

Explanation:

Given:

The breadth of a rectangle is $\frac{2}{3}$ rd of its length.

The area of another rectangle which is thrice the area of the first rectangle is 7200 cm^2

Calculation:

Let the length (l) of the first rectangle be x.

Then breadth (b) of the first rectangle = $\frac{2x}{3}$

So, the area of rectangle = $x \times \left(\frac{2x}{3}\right) = \frac{2x^2}{3} \text{ cm}^2$

Now by the question, the area of another rectangle which is thrice the area of the first rectangle is 7200 cm^2

$$\Rightarrow 3 \times (2x \frac{2}{3}) = 7200$$

$$\Rightarrow x^2 = 3600$$

$$\Rightarrow x = 60 \text{ cm}$$

$$\Rightarrow \text{Length (l)} = 60 \text{ cm and breadth} = (\frac{2}{3}) \times 60 = 40 \text{ cm}$$

$$\text{The perimeter of the first rectangle} = 2 \times (l_1 + b_1) = 2 \times (60 + 40) = 200 \text{ cm.}$$

$\therefore$ The perimeter of the first rectangle is 200 cm.

52. Answer: c

Explanation:

Given:

Five years ago, the ratio of ages between A and B = 5 : 3

The ratio of the ages of A and B after 7 years = 3 : 2

Calculation:

Five years ago,

Let the age of A = 5x and the age of B = 3x

Now the present age of A = 5x + 5 and the present age of B = 3x + 5

So the age of A after 7 years = 5x + 12 and the age of B after 7 years = 3x + 12

So, by the question

$$\Rightarrow (5x + 12)/(3x + 12) = 3/2$$

$$\Rightarrow 2 \times (5x + 12) = 3 \times (3x + 12)$$

$$\Rightarrow 10x + 24 = 9x + 36$$

$$\Rightarrow x = 12$$

So, the present age of A = $5x + 5 = 5 \times 12 + 5 = 65$ years

$\therefore$ The present age of A is 65 years

53. Answer: e

Explanation:

Three dice are rolled simultaneously

Numbers on dice = 1,2,3,4,5,6

Total outcomes = 6

Probability $P(A)$ = Number of favourable outcomes $n(A)$ / Total possible outcomes

Probability of getting a six in the roll of single dice

$$\Rightarrow P(6) = 1/6$$

Probability of getting three sixes by rolling 3 such dices

$$\Rightarrow \text{Probability} = (1/6) \times (1/6) \times (1/6) = 1/216$$

$\therefore$ Probability of getting three sixes if three dices are rolled simultaneously is $1/216$

54. Answer: c

Explanation:

Calculation :

The pattern followed here is:

$$\Rightarrow 2 \times 2 + 2 = 6$$

$$\Rightarrow 6 \times 2 + 3 = 15$$

$$\Rightarrow 15 \times 2 + 5 = 35$$

$$\Rightarrow 35 \times 2 + 7 = 77$$

$$\Rightarrow 77 \times 2 + 11 = \mathbf{165}$$

$\therefore$ required value of ? = 165

55. Answer: b

Explanation:

Calculation :

The pattern followed here is:

$$\Rightarrow 2.5 \times 1 + 2 = 4.5$$

$$\Rightarrow 4.5 \times 2 + 3 = 12$$

$$\Rightarrow 12 \times 3 + 4 = 40$$

$$\Rightarrow 40 \times 4 + 5 = 165$$

$$\Rightarrow 165 \times 5 + 6 = \mathbf{831}$$

$\therefore$ required value of ? = 831

56. Answer: e

Explanation:

Calculation :

The pattern followed here is:

$$\Rightarrow 400 \times 0.5 + 1 = 201$$

$$\Rightarrow 201 \times 1 + 1 = 202$$

$$\Rightarrow 202 \times 1.5 + 1 = 304$$

$$\Rightarrow 304 \times 2 + 1 = 609$$

$$\Rightarrow 609 \times 2.5 + 1 = \mathbf{1523.5}$$

$\therefore$ required value of ? = 1523.5

57. Answer: c

Explanation:

Calculation :

The pattern followed here is:

$$\Rightarrow 1822 = 607 \times 3 + 1$$

$$\Rightarrow 607 = 202 \times 3 + 1$$

$$\Rightarrow 202 = 67 \times 3 + 1$$

$$\Rightarrow 67 = 22 \times 3 + 1$$

$$\Rightarrow 22 = 7 \times 3 + 1$$

$\therefore$ required value of ? = 7

58. Answer: e

Explanation:

Calculation :

The pattern followed here is:

$$\Rightarrow 18 + 4.5 = 22.5$$

$$\Rightarrow 22.5 - 2 = 20.5$$

$$\Rightarrow 20.5 + 4.5 = 25$$

$$\Rightarrow 25 - 2 = 23$$

$$\Rightarrow 23 + 4.5 = \mathbf{27.5}$$

$\therefore$ required value of ? = 27.5

59. Answer: a

Explanation:

	Number of boys	Number of girls
Chess	10	10
Carrom	40	15
Total	50	25

Number of boys who have played Carrom at the Event = 40

Number of girls who have played Chess at the Event = 10

$\therefore$ Required Sum = 40 + 10 = 50

60. Answer: a

Explanation:

	Number of boys	Number of girls
Chess	10	10
Carrom	40	15
Total	50	25

The number of boys playing Chess = 10

The number of girls playing Chess = 10

$\therefore$ Required ratio = $10 : 10 = 1 : 1$

61. Answer: a

Explanation:

	Number of boys	Number of girls
Chess	10	10
Carrom	40	15
Total	50	25

The number of girls playing chess = 10

The number of boys playing Carrom = 40

$\therefore$ required less percentage = $(40 - 10)/40 \times 100 = 30/40 \times 100 = 75\%$

62. Answer: a

Explanation:

	Number of boys	Number of girls
Chess	10	10
Carrom	40	15
Total	50	25

$\therefore$ Total number of individual playing Carrom in the event = $(40 + 15) = 55$

63. Answer: c

Explanation:

	Number of boys	Number of girls
Chess	10	10
Carrom	40	15
Total	50	25

Number of girls playing Carrom = 15

Number of boys playing Chess = 10

$\therefore$ Required difference = $15 - 10 = 5$

64. Answer: d

Explanation:

Pot 1

Ratio of Milk and Water = 4 : 1

$\therefore$ Quantity of Milk = $\frac{4}{5}$

Quantity of Water = $\frac{1}{5}$

Pot 2

Ratio of Milk and Water = 2 : 3

$\therefore$ Quantity of Milk = $\frac{2}{5}$

Quantity of Water = $\frac{3}{5}$

Two equal pots are mixed in the ratio 7 : 6

$\Rightarrow \{(7 \times \frac{4}{5}) + (6 \times \frac{2}{5})\} / \{(7 \times \frac{1}{5}) + (6 \times \frac{3}{5})\} = \frac{40}{25} = \frac{8}{5}$

$\therefore$ Ratio of Milk and water in the mixture is 8 : 5

Required Percentage = $\{(8 - 5)/5\} \times 100 = 60\%$

$\therefore$ Quantity of milk in the mixture is greater than water by 60%

65. Answer: c**Explanation:**

A can complete the work in 24 days

$\Rightarrow$ A's 1-day work = $\frac{1}{24}$

B can complete the work in 36 days

$\Rightarrow$ B's 1-day work = $\frac{1}{36}$

C can complete the work in 18 days

$\Rightarrow$ C's 1-day work = $1/18$

B left the job after working for 5 days and C left the job 2 days before completion

Let the work be completed in x days and complete work is done (1 unit)

$$\Rightarrow (5/36) + (x-2)/18 + x/24 = 1$$

$$\Rightarrow (10 + 4x - 8 + 3x)/72 = 1$$

$$\Rightarrow 7x + 2 = 72$$

$$\Rightarrow x = 10$$

$\therefore$ Work is completed in 10 days

66. Answer: c

Explanation:

Six boxes: P, Q, R, S, T, U

1) S is immediately below the indigo box.

2) There are two boxes between S and T.

3) T is not placed above S.

This means that T is placed somewhere below S.

Thus, we get the following two cases:

Case 1:

Box	Colour
	Indigo
S	
T	

Case 2:

Box	Colour
	Indigo
S	
T	

4) Only blue box is kept between Q and the indigo box.

5) The yellow box is kept third from the bottom of the stack.

Case 1:

Box	Colour
	Indigo
S	Blue
Q	
	Yellow
T	

Case 2:

Box	Colour
	Indigo
S	Blue
Q	Yellow
T	

6) There are two boxes between the red and purple boxes.

This eliminates case 2.

Box	Colour
	Indigo
S	Blue
Q	Red/Purple
	Yellow
T	
	Red/Purple

7) The yellow box is kept below U.

8) The colour of box Q is not red.

Box	Colour
U	Indigo
S	Blue
Q	Purple
	Yellow
T	
	Red

9) P is kept immediately below the orange box.

Thus, we get the final arrangement as follows:

Box	Colour
U	Indigo
S	Blue
Q	Purple
R	Yellow
T	Orange
P	Red

Hence, U is placed at the top of the stack.

67. Answer: a

Explanation:

Six boxes: P, Q, R, S, T, U

- 1) S is immediately below the indigo box.
- 2) There are two boxes between S and T.
- 3) T is not placed above S.

This means that T is placed somewhere below S.

Thus, we get the following two cases:

Case 1:

Box	Colour
	Indigo
S	
T	

Case 2:

Box	Colour
	Indigo
S	
T	

- 4) Only blue box is kept between Q and the indigo box.
- 5) The yellow box is kept third from the bottom of the stack.

Case 1:

Box	Colour
	Indigo
S	Blue
Q	
	Yellow
T	

Case 2:

Box	Colour
	Indigo
S	Blue
Q	Yellow
T	

6) There are two boxes between the red and purple boxes.

This eliminates case 2.

Box	Colour
	Indigo
S	Blue
Q	Red/Purple
	Yellow
T	
	Red/Purple

7) The yellow box is kept below U.

8) The colour of box Q is not red.

Box	Colour
U	Indigo
S	Blue
Q	Purple
	Yellow
T	
	Red

9) P is kept immediately below the orange box.

Thus, we get the final arrangement as follows:

Box	Colour
U	Indigo
S	Blue
Q	Purple
R	Yellow
T	Orange
P	Red

Hence there are three boxes placed below box Q.

68. Answer: b

Explanation:

Six boxes: P, Q, R, S, T, U

1) S is immediately below the indigo box.

2) There are two boxes between S and T.

3) T is not placed above S.

This means that T is placed somewhere below S.

Thus, we get the following two cases:

Case 1:

Box	Colour
	Indigo
S	
T	

Case 2:

Box	Colour
	Indigo
S	
T	

4) Only blue box is kept between Q and the indigo box.

5) The yellow box is kept third from the bottom of the stack.

Case 1:

Box	Colour
	Indigo
S	Blue
Q	
	Yellow
T	

Case 2:

Box	Colour
	Indigo
S	Blue
Q	Yellow
T	

6) There are two boxes between the red and purple boxes.

This eliminates case 2.

Box	Colour
	Indigo
S	Blue
Q	Red/Purple
	Yellow
T	
	Red/Purple

7) The yellow box is kept below U.

8) The colour of box Q is not red.

Box	Colour
U	Indigo
S	Blue
Q	Purple
	Yellow
T	
	Red

9) P is kept immediately below the orange box.

Thus, we get the final arrangement as follows:

Box	Colour
U	Indigo
S	Blue
Q	Purple
R	Yellow
T	Orange
P	Red

Hence the colour of box U is indigo.

69. Answer: e

Explanation:

Six boxes: P, Q, R, S, T, U

1) S is immediately below the indigo box.

2) There are two boxes between S and T.

3) T is not placed above S.

This means that T is placed somewhere below S.

Thus, we get the following two cases:

Case 1:

Box	Colour
	Indigo
S	
T	

Case 2:

Box	Colour
	Indigo
S	
T	

4) Only blue box is kept between Q and the indigo box.

5) The yellow box is kept third from the bottom of the stack.

Case 1:

Box	Colour
	Indigo
S	Blue
Q	
	Yellow
T	

Case 2:

Box	Colour
	Indigo
S	Blue
Q	Yellow
T	

6) There are two boxes between the red and purple boxes.

This eliminates case 2.

Box	Colour
	Indigo
S	Blue
Q	Red/Purple
	Yellow
T	
	Red/Purple

7) The yellow box is kept below U.

8) The colour of box Q is not red.

Box	Colour
U	Indigo
S	Blue
Q	Purple
	Yellow
T	
	Red

9) P is kept immediately below the orange box.

Thus, we get the final arrangement as follows:

Box	Colour
U	Indigo
S	Blue
Q	Purple
R	Yellow
T	Orange
P	Red

Hence, box T is coloured orange.

70. **Answer: d**

Explanation:

Six boxes: P, Q, R, S, T, U

1) S is immediately below the indigo box.

2) There are two boxes between S and T.

3) T is not placed above S.

This means that T is placed somewhere below S.

Thus, we get the following two cases:

Case 1:

Box	Colour
	Indigo
S	
T	

Case 2:

Box	Colour
	Indigo
S	
T	

4) Only blue box is kept between Q and the indigo box.

5) The yellow box is kept third from the bottom of the stack.

Case 1:

Box	Colour
	Indigo
S	Blue
Q	
	Yellow
T	

Case 2:

Box	Colour
	Indigo
S	Blue
Q	Yellow
T	

6) There are two boxes between the red and purple boxes.

This eliminates case 2.

Box	Colour
	Indigo
S	Blue
Q	Red/Purple
	Yellow
T	
	Red/Purple

7) The yellow box is kept below U.

8) The colour of box Q is not red.

Box	Colour
U	Indigo
S	Blue
Q	Purple
	Yellow
T	
	Red

9) P is kept immediately below the orange box.

Thus, we get the final arrangement as follows:

Box	Colour
U	Indigo
S	Blue
Q	Purple
R	Yellow
T	Orange
P	Red

Hence 'Q - Purple' is the correct combination.

71. Answer: b

Explanation:

Given word	COMPREHENSION
First, fifth, seventh, eleventh letters	C, R, H, I
Meaningful word	RICH

The only meaningful word formed is RICH.

The third letter of RICH is C.

Hence, C is the correct answer.

72. Answer: e

Explanation:

1) Four people arrived before D

__ > __ > __ > __ > D

2) Only one person arrived after E.

__ > __ > __ > E > D

2) C did not arrive after A. B is not the first girl to arrive at the theatre.

This means that C arrived before A and B arrived either second or third.

Therefore, we get the following arrangement:

$C > A/B > A/B > E > D$.

Thus, either A or B arrived second at the theatre.

Hence, 'cannot be determined' is the correct answer.

73. Answer: d

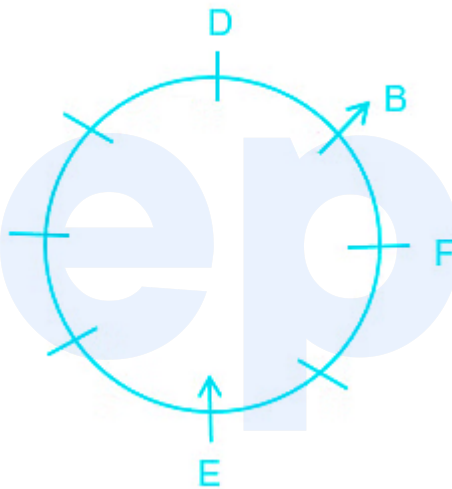
Explanation:

Given:

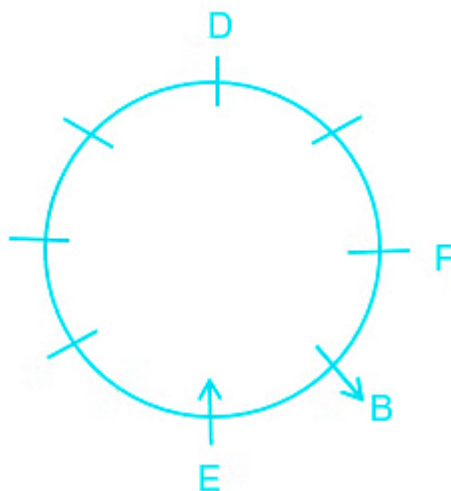
Eight person: A, B, C, D, E, F, G, and H

1. There are three friends sit between E and D.
2. F sits second to right of E, who faces the centre.
3. F is an immediate neighbor of B, who faces outside the centre.

Case1



Case2

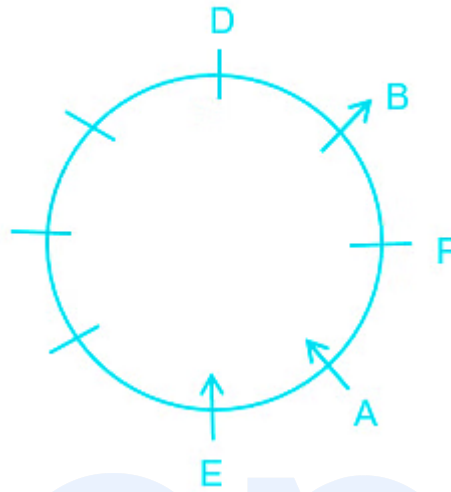


4. A sits second to the right of B.

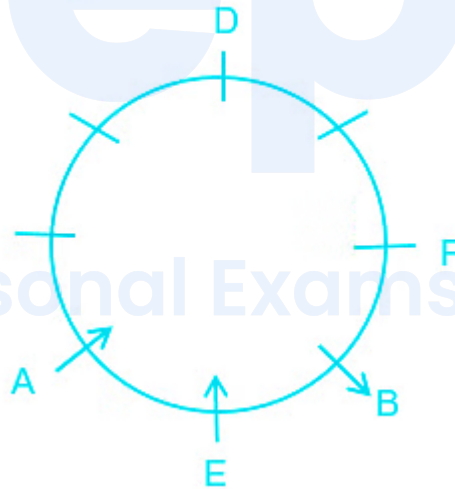
5. A and B face opposite direction.

6. B and E face opposite direction.

Case1



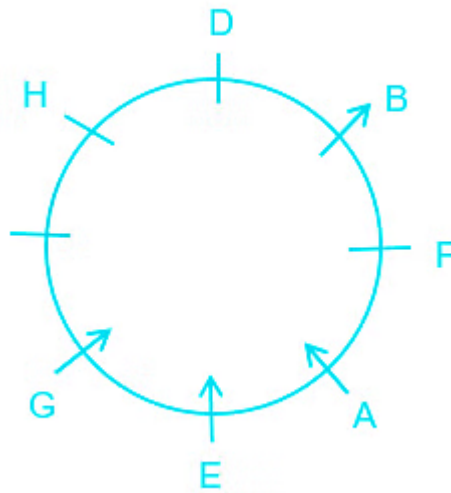
Case2



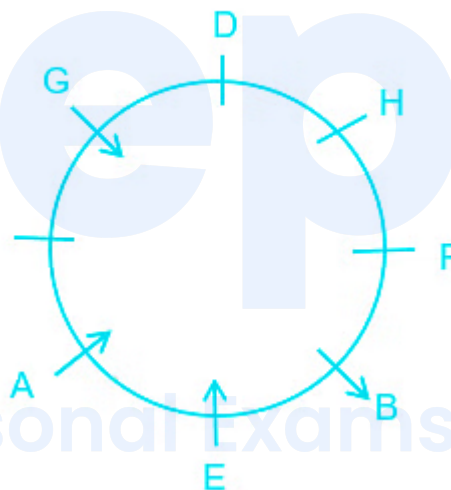
7. A sits second to the right of G.

8. H is an immediate neighbor of D.

Case1



Case2

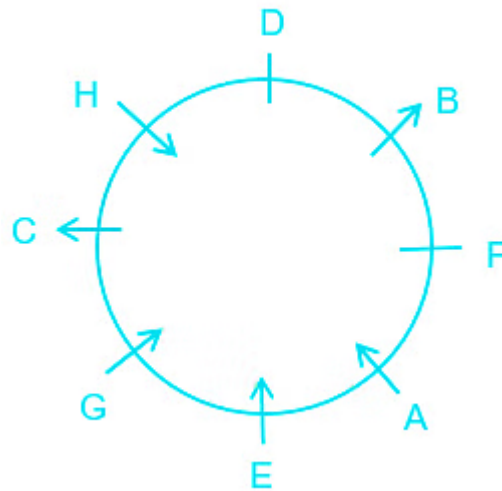


9. C is not an immediate neighbor of A. (There is no seat for C in case2, hence Case2 is eliminated)

10. Immediate left neighbour of G face the opposite direction.

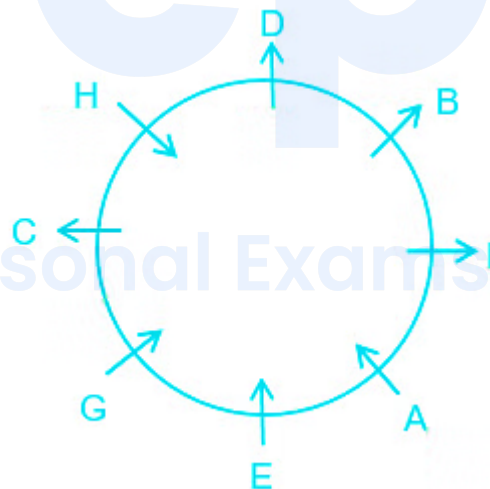
11. Immediate neighbour of C face the same direction

Case1



12. It is given that only four persons are facing the centre, and other four are facing outside the centre.

Hence final arrangement.



Hence, H sits fourth to the left of A.

74. Answer: c

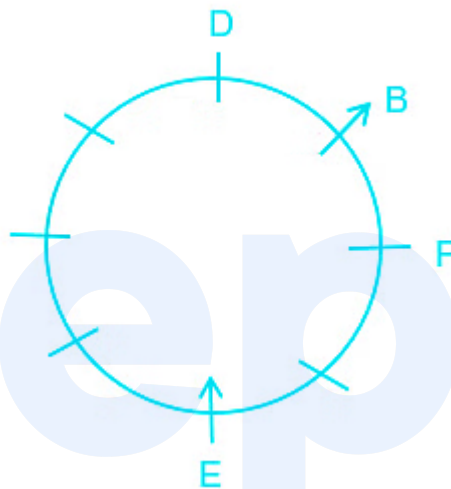
Explanation:

Given:

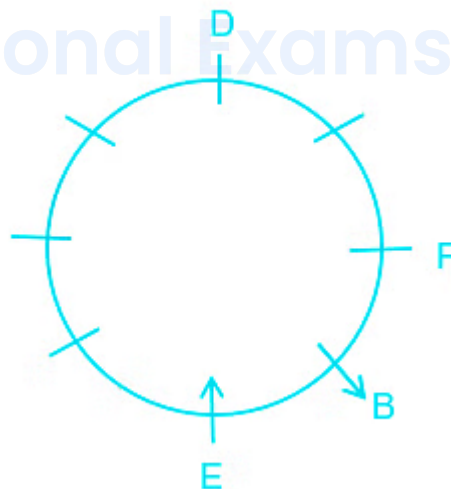
Eight person: A, B, C, D, E, F, G, and H

1. There are three friends sit between E and D.
2. F sits second to right of E, who faces the centre.
3. F is an immediate neighbor of B, who faces outside the centre.

Case1



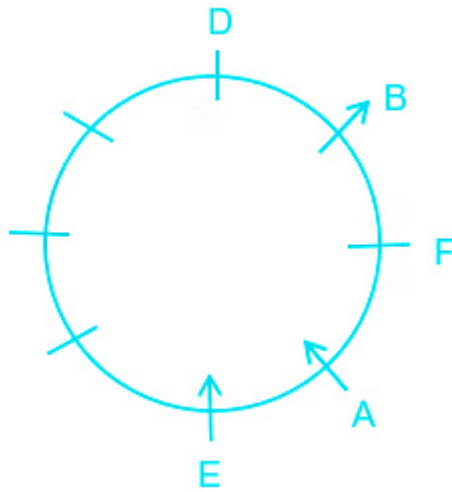
Case2



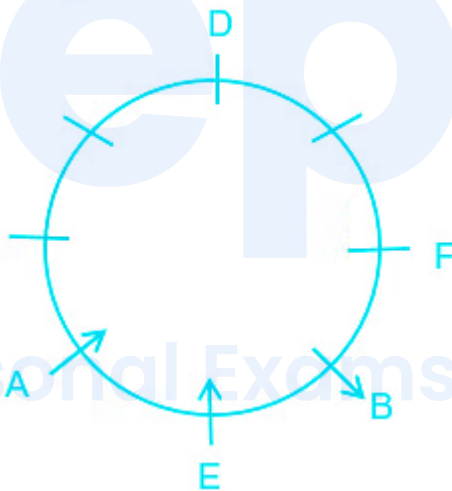
4. A sits second to the right of B.
5. A and B face opposite direction.

6. B and E face opposite direction.

Case1



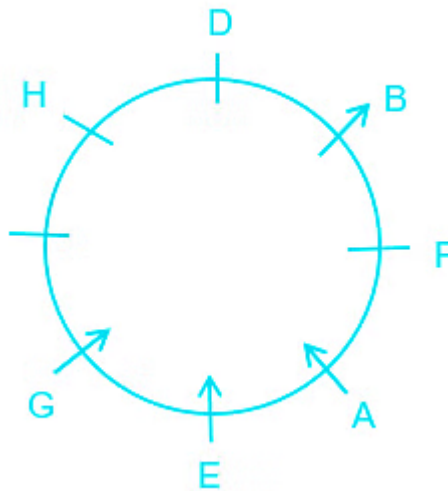
Case2



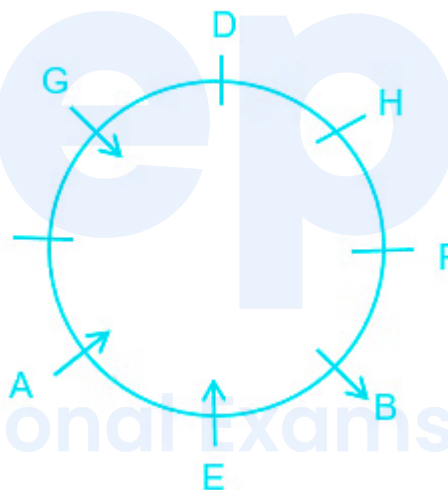
7. A sits second to the right of G.

8. H is an immediate neighbor of D.

Case1



Case2

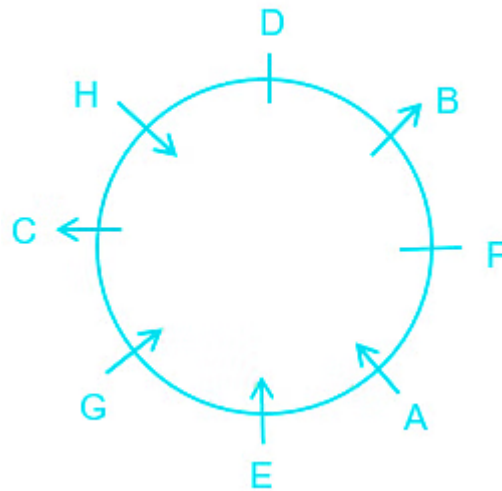


9. C is not an immediate neighbor of A. (There is no seat for C in case2, hence Case2 is eliminated)

10. Immediate neighbour of G face the opposite direction.

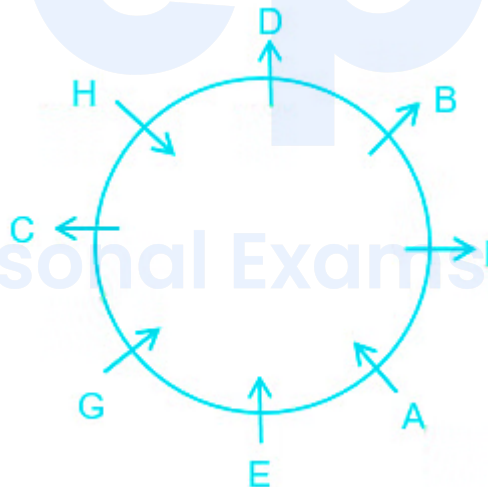
11. Immediate neighbour of C face the same direction

Case1



12. It is given that only four persons are facing the centre, and other four are facing outside the centre.

Hence final arrangement.



Hence, G sits immediate left of E.

75. Answer: e

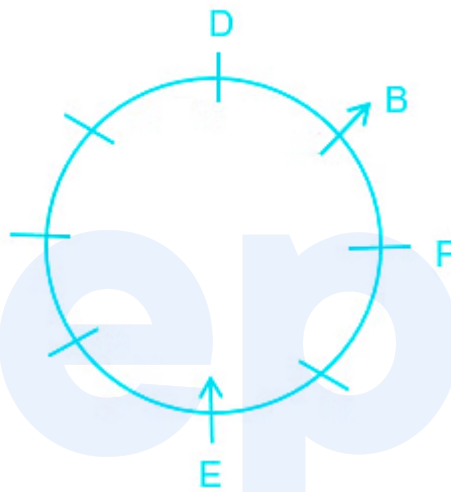
Explanation:

Given:

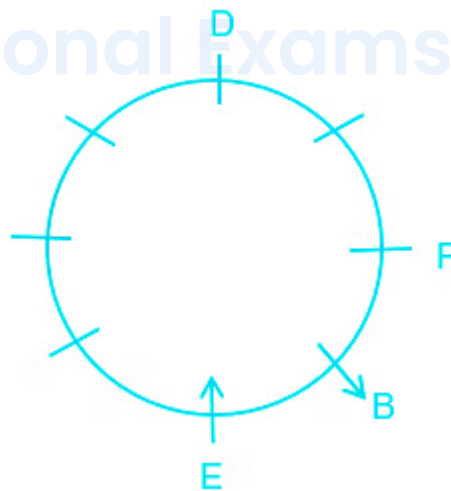
Eight person: A, B, C, D, E, F, G, and H

1. There are three friends sit between E and D.
2. F sits second to right of E, who faces the centre.
3. F is an immediate neighbor of B, who faces outside the centre.

Case1



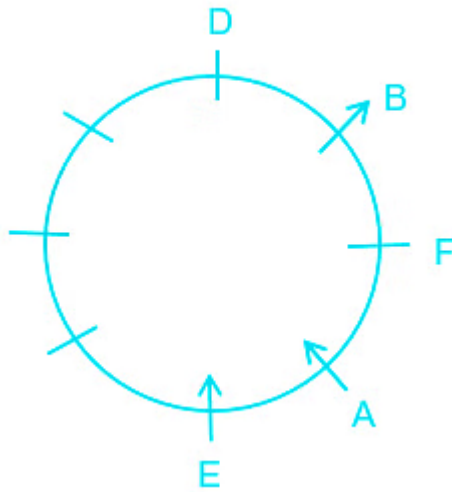
Case2



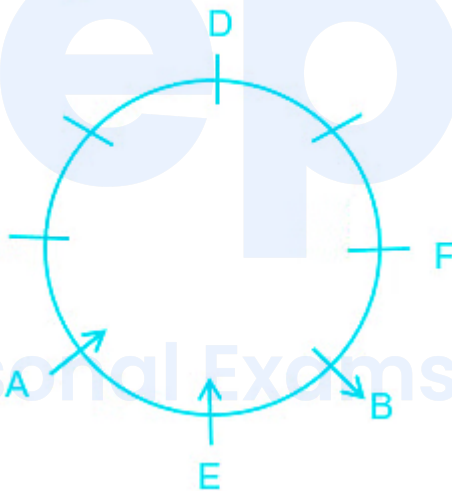
4. A sits second to the right of B.
5. A and B face opposite direction.

6. B and E face opposite direction.

Case1



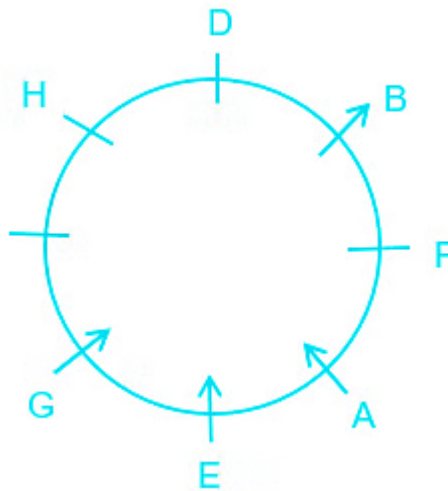
Case2



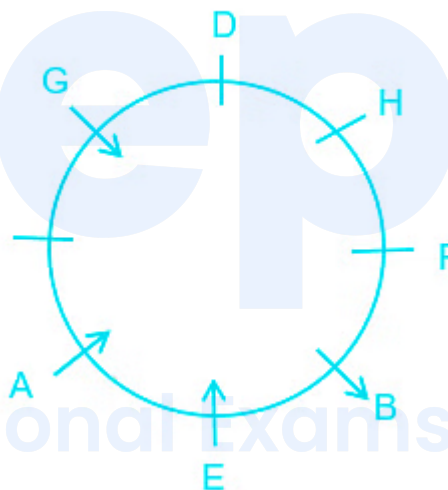
7. A sits second to the right of G.

8. H is an immediate neighbor of D.

Case1



Case2

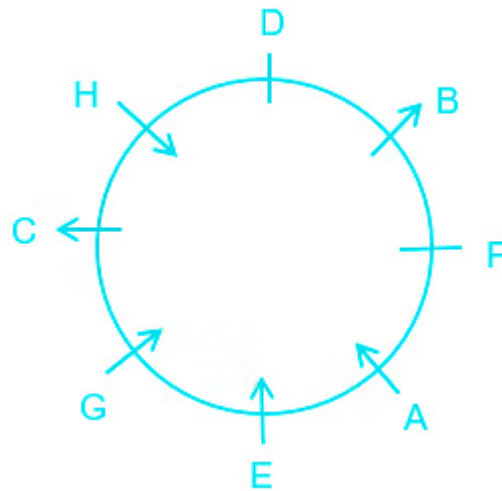


9. C is not an immediate neighbor of A. (There is no seat for C in case2, hence Case2 is eliminated)

10. Immediate neighbour of G face the opposite direction.

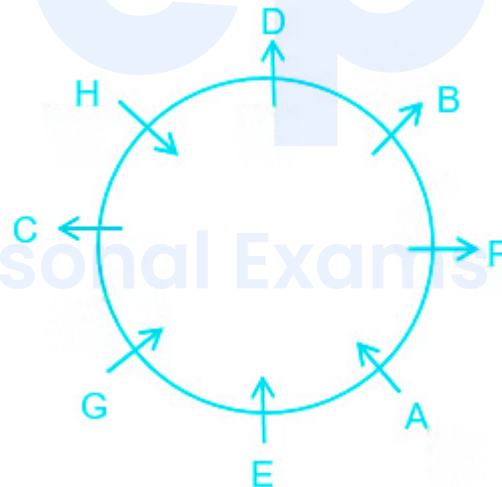
11. Immediate neighbour of C face the same direction

Case1



12. It is given that only four persons are facing the centre, and other four are facing outside the centre.

Hence final arrangement.



Hence, there are four persons sit between A and C when counted from right of A.

76. Answer: a

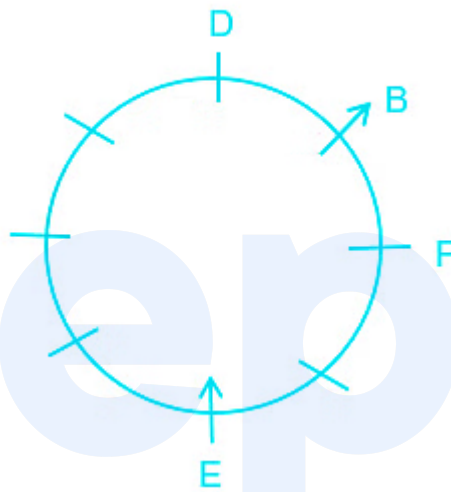
Explanation:

Given:

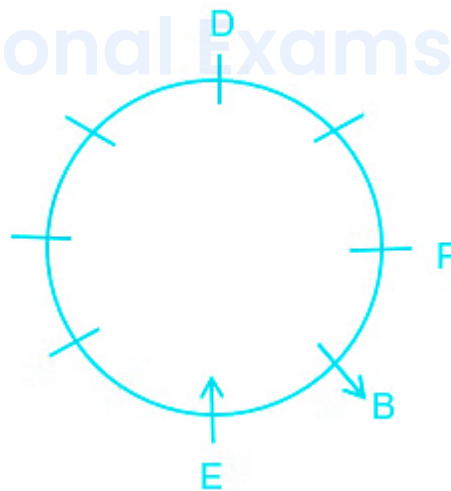
Eight person: A, B, C, D, E, F, G, and H

1. There are three friends sit between E and D.
2. F sits second to right of E, who faces the centre.
3. F is an immediate neighbor of B, who faces outside the centre.

Case1



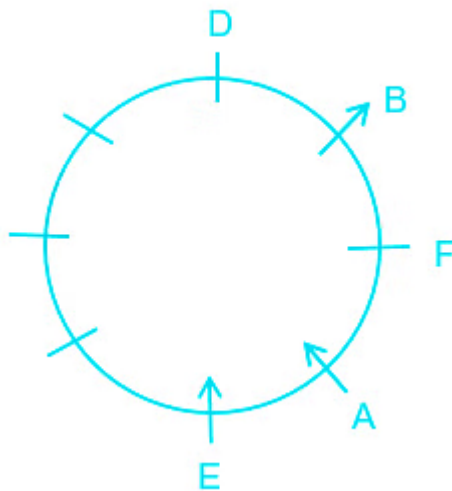
Case2



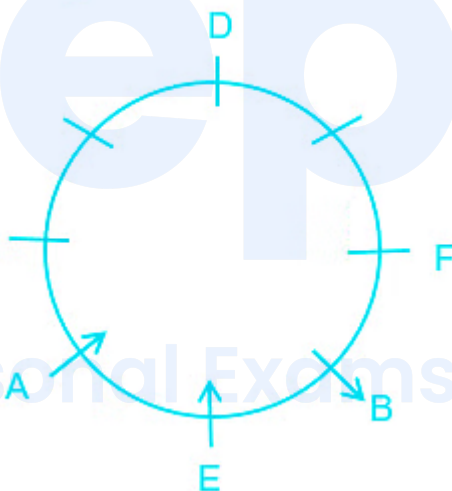
4. A sits second to the right of B.
5. A and B face opposite direction.

6. B and E face opposite direction.

Case1



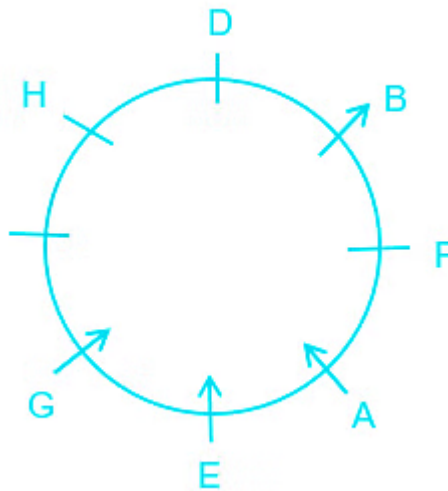
Case2



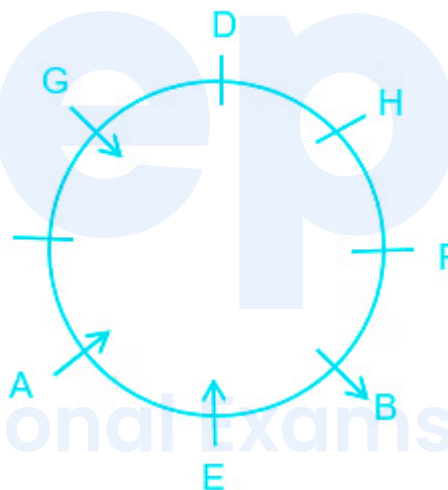
7. A sits second to the right of G.

8. H is an immediate neighbor of D.

Case1



Case2

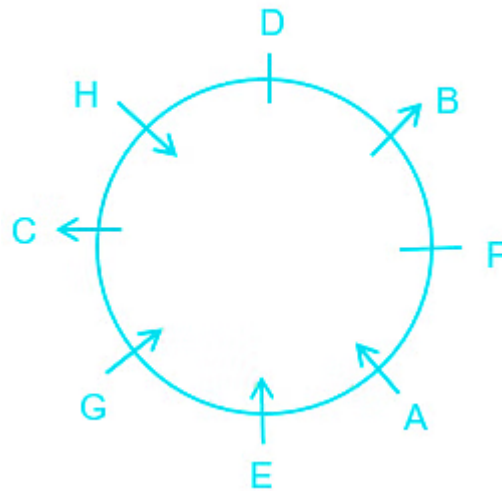


9. C is not an immediate neighbor of A. (There is no seat for C in case2, hence Case2 is eliminated)

10. Immediate neighbour of G face the opposite direction.

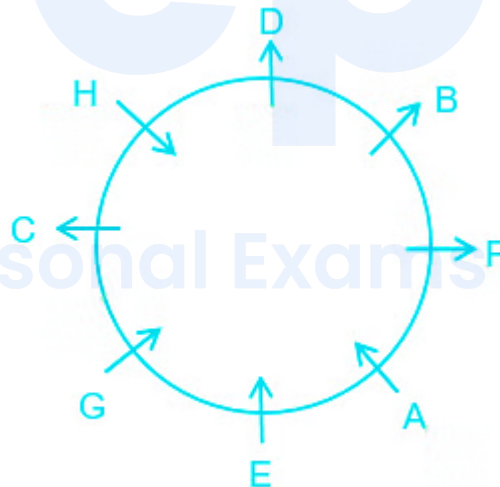
11. Immediate neighbour of C face the same direction

Case1



12. It is given that only four persons are facing the centre, and other four are facing outside the centre.

Hence final arrangement.



Except D all are facing towards the centre.

Hence D does not belong to the group.

77. Answer: e

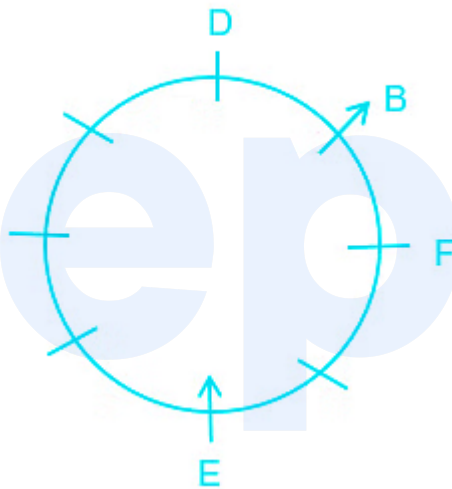
Explanation:

Given:

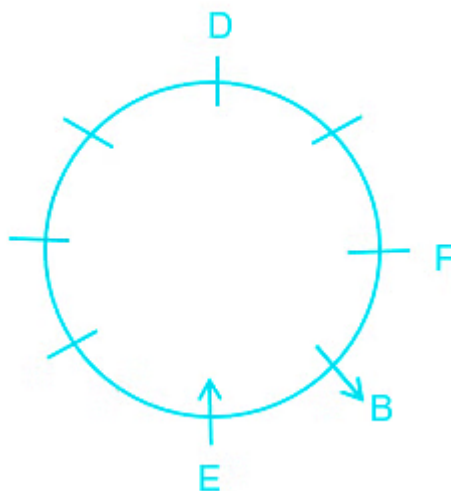
Eight person: A, B, C, D, E, F, G, and H

1. There are three friends sit between E and D.
2. F sits second to right of E, who faces the centre.
3. F is an immediate neighbor of B, who faces outside the centre.

Case1



Case2

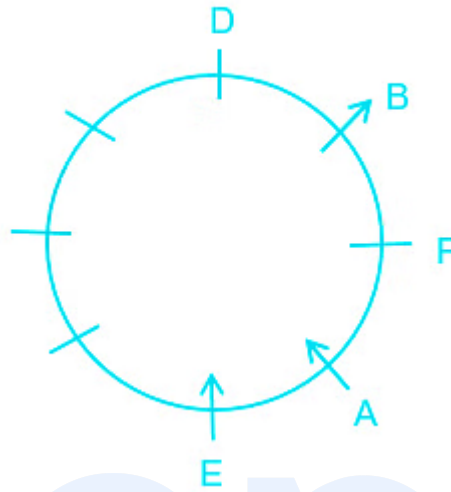


4. A sits second to the right of B.

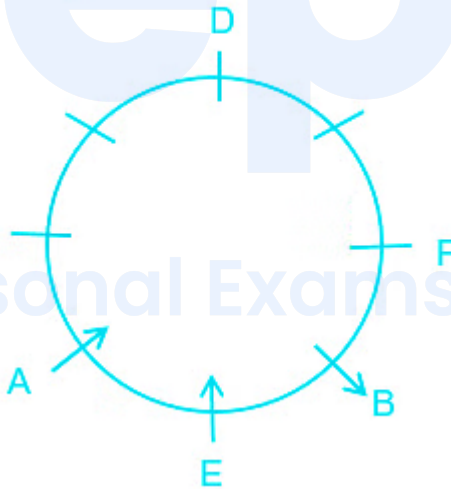
5. A and B face opposite direction.

6. B and E face opposite direction.

Case1



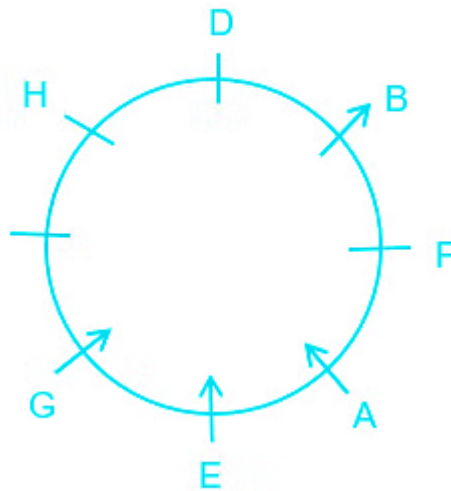
Case2



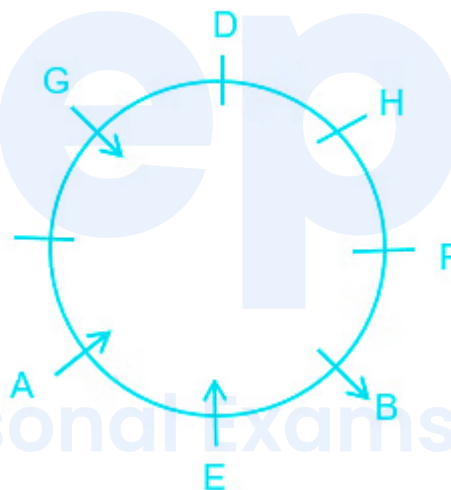
7. A sits second to the right of G.

8. H is an immediate neighbor of D.

Case1



Case2

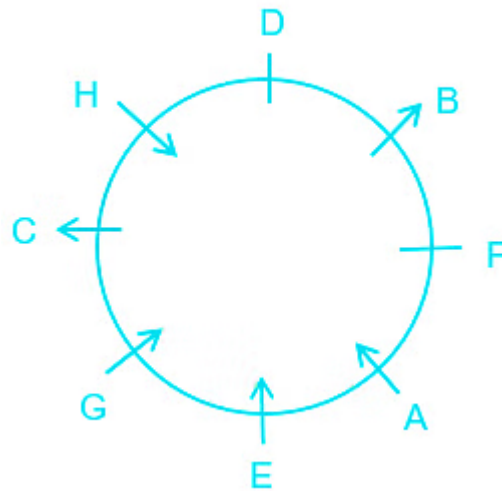


9. C is not an immediate neighbor of A. (There is no seat for C in case2, hence Case2 is eliminated)

10. Immediate neighbour of G face the opposite direction.

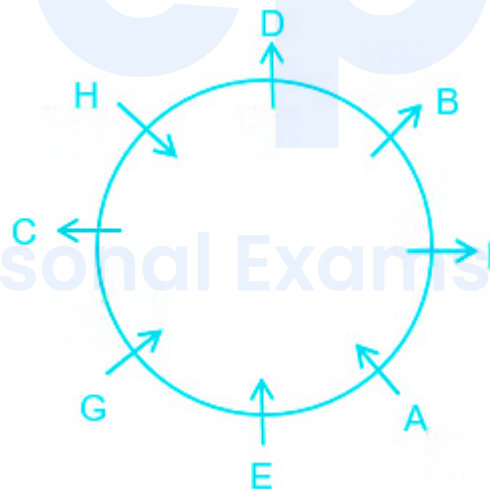
11. Immediate neighbour of C face the same direction

Case1



12. It is given that only four persons are facing the centre, and other four are facing outside the centre.

Hence final arrangement.



Either 'C' or 'F' sits exactly between E and D.

78. Answer: d

Explanation:

The symbols used in the diagram are:

Symbol in Diagram	Meaning
○	Female
□	Male
══	Married Couple
—	Siblings
	Difference of A Generation

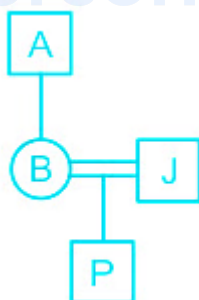
From the given information,

1) A is the father of B.

2) P is the son of B.

3) J is the husband of B.

(Hence, B is the mother of P).



4) B does not have any siblings.

5) K is the aunt of P.

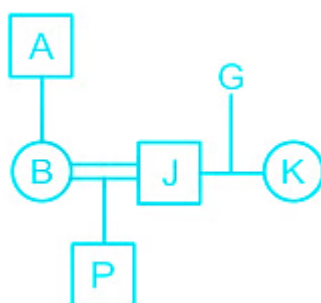
(Hence, K is the sister of J, as B does not have any sibling).

6) J has only one child.

7) G is the parent of K.

(Hence, G is the parent of both J and K).

Hence, the final family chart will be as follows:



Hence, K is the **sister-in-law** of B.

79. Answer: e

Explanation:

The symbols used in the diagram are:

Symbol in Diagram	Meaning
○	Female
□	Male
══	Married Couple
—	Siblings
	Difference of A Generation

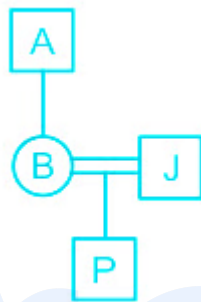
From the given information,

1) A is the father of B.

2) P is the son of B.

3) J is the husband of B.

(Hence, B is the mother of P).



4) B does not have any siblings.

5) K is the aunt of P.

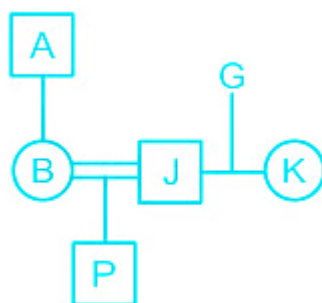
(Hence, K is the sister of J, as B does not have any sibling).

6) J has only one child.

7) G is the parent of K.

(Hence, G is the parent of both J and K).

Hence, the final family chart will be as follows:



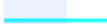
The gender of G is not definite.

Hence, the relation of G with P **cannot be determined**.

80. Answer: c

Explanation:

The symbols used in the diagram are:

Symbol in Diagram	Meaning
	Female
	Male
	Married Couple
	Siblings
	Difference of A Generation

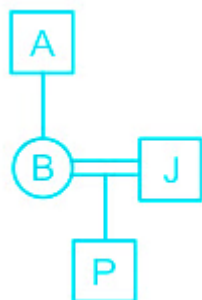
From the given information,

1) A is the father of B.

2) P is the son of B.

3) J is the husband of B.

(Hence, B is the mother of P).



4) B does not have any siblings.

5) K is the aunt of P.

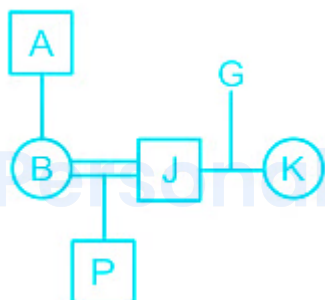
(Hence, K is the sister of J, as B does not have any sibling).

6) J has only one child.

7) G is the parent of K.

(Hence, G is the parent of both J and K).

Hence, the final family chart will be as follows:



Hence, A is the **father-in-law** of J.

81. Answer: d

Explanation:

1. F lives on third floor.

2. B lives four floor above A, but both of them lives on different flat. (In case1 B lives on flat2 and A lives on flat1, in case2 B lives on flat1 and A lives on flat2.)

3. There is a gap of one floor between A and F, but both of them lives on same flat.

	Case1		Case2	
Floor no	Flat1	Flat2	Flat1	Flat2
5		B	B	
4				
3	F			F
2				
1	A			A

4. H lives on ground floor.

5. D lives on the top floor.

	Case1		Case2	
Floor no	Flat1	Flat2	Flat1	Flat2
5	D	B	B	D
4				
3	F			F
2				
1	A	H	H	A

6. C lives two floor above H, it means there is a gap of one floor between C and H
7. D lives in the north west of J. (In case2, D cannot be in northwest to J so, case2 is eliminated.)
8. There is a gap of two floor between G and D.
9. G lives on odd flat number.
9. E lives in the west of I, so E lives in flat1 and I lives in flat2.

Floor no	Flat1	Flat2
5	D	B
4	E	I
3	F	C
2	G	J
1	A	H

Hence, J lives on floor-2 and flat-2.

82. Answer: a

Explanation:

1. F lives on third floor.
2. B lives four floor above A, but both of them lives on different flat. (In case1 B lives on flat2 and A lives on flat1, in case2 B lives on flat1 and A lives on flat2.)
3. There is a gap of one floor between A and F, but both of them lives on same flat.

	Case1		Case2	
Floor no	Flat1	Flat2	Flat1	Flat2
5		B	B	
4				
3	F			F
2				
1	A			A

4. H lives on ground floor.

5. D lives on the top floor.

	Case1		Case2	
Floor no	Flat1	Flat2	Flat1	Flat2
5	D	B	B	D
4				
3	F			F
2				
1	A	H	H	A

6. C lives two floor above H, it means there is a gap of one floor between C and H
7. D lives in the north west of J. (In case2, D cannot be in northwest to J so, case2 is eliminated.)
8. There is a gap of two floor between G and D.
9. G lives on odd flat number.
9. E lives in the west of I, so E lives in flat1 and I lives in flat2.

Floor no	Flat1	Flat2
5	D	B
4	E	I
3	F	C
2	G	J
1	A	H

Hence, there are one floor between H and F.

83. Answer: e

Explanation:

1. F lives on third floor.
2. B lives four floor above A, but both of them lives on different flat. (In case1 B lives on flat2 and A lives on flat1, in case2 B lives on flat1 and A lives on flat2.)
3. There is a gap of one floor between A and F, but both of them lives on same flat.

	Case1		Case2	
Floor no	Flat1	Flat2	Flat1	Flat2
5		B	B	
4				
3	F			F
2				
1	A			A

4. H lives on ground floor.

5. D lives on the top floor.

	Case1		Case2	
Floor no	Flat1	Flat2	Flat1	Flat2
5	D	B	B	D
4				
3	F			F
2				
1	A	H	H	A

6. C lives two floor above H, it means there is a gap of one floor between C and H
7. D lives in the north west of J. (In case2, D cannot be in northwest to J so, case2 is eliminated.)
8. There is a gap of two floor between G and D.
9. G lives on odd flat number.
9. E lives in the west of I, so E lives in flat1 and I lives in flat2.

Floor no	Flat1	Flat2
5	D	B
4	E	I
3	F	C
2	G	J
1	A	H

B lives on top floor, hence no one live above B's floor.

84. Answer: b

Explanation:

1. F lives on third floor.
2. B lives four floor above A, but both of them lives on different flat. (In case1 B lives on flat2 and A lives on flat1, in case2 B lives on flat1 and A lives on flat2.)
3. There is a gap of one floor between A and F, but both of them lives on same flat.

	Case1		Case2	
Floor no	Flat1	Flat2	Flat1	Flat2
5		B	B	
4				
3	F			F
2				
1	A			A

4. H lives on ground floor.

5. D lives on the top floor.

	Case1		Case2	
Floor no	Flat1	Flat2	Flat1	Flat2
5	D	B	B	D
4				
3	F			F
2				
1	A	H	H	A

6. C lives two floor above H, it means there is a gap of one floor between C and H
7. D lives in the north west of J. (In case2, D cannot be in northwest to J so, case2 is eliminated.)
8. There is a gap of two floor between G and D.
9. G lives on odd flat number.
9. E lives in the west of I, so E lives in flat1 and I lives in flat2.

Floor no	Flat1	Flat2
5	D	B
4	E	I
3	F	C
2	G	J
1	A	H

Except 'I' all lives one flat-1,

Hence, I does not belongs to the group.

85. Answer: d

Explanation:

1. F lives on third floor.
2. B lives four floor above A, but both of them lives on different flat. (In case1 B lives on flat2 and A lives on flat1, in case2 B lives on flat1 and A lives on flat2.)
3. There is a gap of one floor between A and F, but both of them lives on same flat.

	Case1		Case2	
Floor no	Flat1	Flat2	Flat1	Flat2
5		B	B	
4				
3	F			F
2				
1	A			A

4. H lives on ground floor.

5. D lives on the top floor.

	Case1		Case2	
Floor no	Flat1	Flat2	Flat1	Flat2
5	D	B	B	D
4				
3	F			F
2				
1	A	H	H	A

6. C lives two floor above H, it means there is a gap of one floor between C and H
7. D lives in the north west of J. (In case2, D cannot be in northwest to J so, case2 is eliminated.)
8. There is a gap of two floor between G and D.
9. G lives on odd flat number.
9. E lives in the west of I, so E lives in flat1 and I lives in flat2.

Floor no	Flat1	Flat2
5	D	B
4	E	I
3	F	C
2	G	J
1	A	H

Hence, I lives on floor-4.

86. Answer: a

Explanation:

Combining the two words and their depictions in sequence, we can infer the following representation of letters:

F	A	K	E
#	@	&	5

T	R	O	L	L
9	+	>	%	%

Hence, from the above table, LETTER can be represented as:

L	E	T	T	E	R
%	5	9	9	5	+

Hence, 'LETTER' can be represented as '%5995+'.

87. Answer: e

Explanation:

Given statements: $P > Q < T < Y \geq W$; $X = R > T = S \leq V = L$

On combining: $P > Q < T = S \leq V = L$; $X = R > T < Y \geq W$

Conclusions:

I. $P \geq V \rightarrow$ False (as $P > Q < T$ and $T = S \leq V \rightarrow$ clear relation between P and V cannot be determined)

II. $X > W \rightarrow$ False (as $X = R > T$ and $T < Y \geq W \rightarrow$ clear relation between X and W cannot be determined)

Hence, **None is true.**

88. Answer: c

Explanation:

1) C is sitting at the 6th position from the left end.

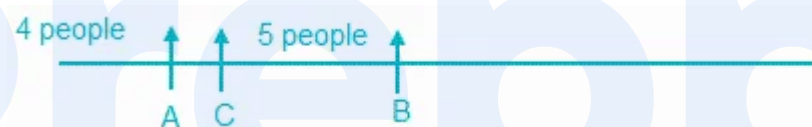
2) C is sitting to the immediate right of A.

(Implies, 4 people are sitting to the left of A.)



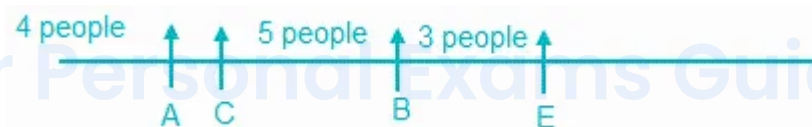
3) A is sitting seventh to the left of B

(Implies, six people are sitting between A and B and 5 people are sitting between B and C.)



4) E is sitting fourth to the right of B.

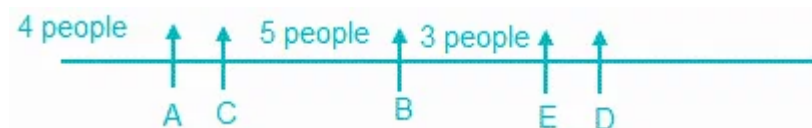
(Implies, three people are sitting between E and B.)



5) 10 people are sitting between C and D.

(Clearly, we can't place 10 people to the left of C as there are only 5 people to the left of him. Implies, D is eleventh to the right of C.)

Now, E is 10th to the right of C, implies, D is sitting to the immediate right of E.)



6) Seven people are sitting between D and F.

(Now, F can be either to the left of D or to the right of D.)

7) There is an odd number of people standing in the row.

8) F is sitting to the right side of the D.



Clearly, there are 25 people in the row.

89. Answer: d

Explanation:

1) C is sitting at the 6 th position from the left end.

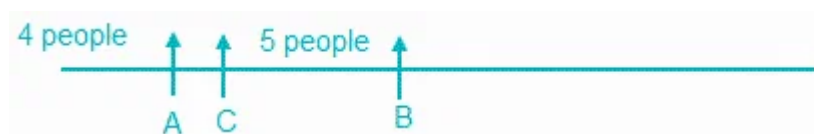
2) C is sitting to the immediate right of A.

(Implies, 4 people are sitting to the left of A.)



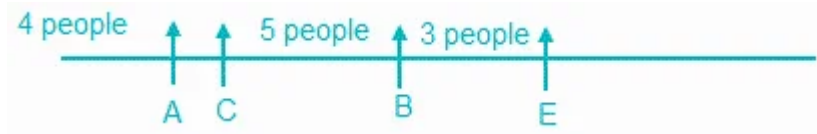
3) A is sitting seventh to the left of B

(Implies, six people are sitting between A and B and 5 people are sitting between B and C.)



4) E is sitting fourth to the right of B.

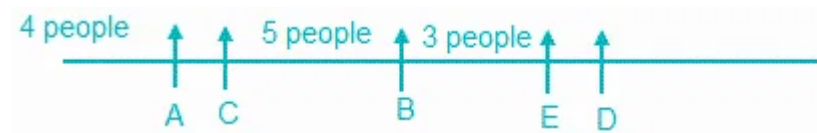
(Implies, three people are sitting between E and B.)



5) 10 people are sitting between C and D.

(Clearly, we can't place 10 people to the left of C as there are only 5 people to the left of him. Implies, D is eleventh to the right of C.

Now, E is 10 th to the right of C, implies, D is sitting to the immediate right of E.)



6) Seven people are sitting between D and F.

(Now, F can be either to the left of D or to the right of D.)

7) There are an odd number of people standing in the row.

8) F is sitting to the right side of the D.



Clearly, 11 people are standing to the left of B in the row.

90. Answer: e

Explanation:

1) C is sitting at the 6 th position from the left end.

2) C is sitting to the immediate right of A.

(Implies, 4 people are sitting to the left of A.)



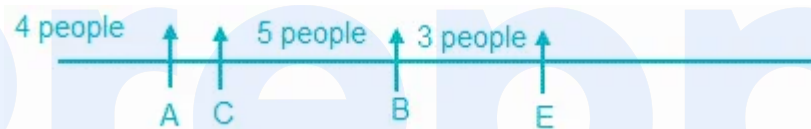
3) A is sitting seventh to the left of B

(Implies, six people are sitting between A and B and 5 people are sitting between B and C.)



4) E is sitting fourth to the right of B.

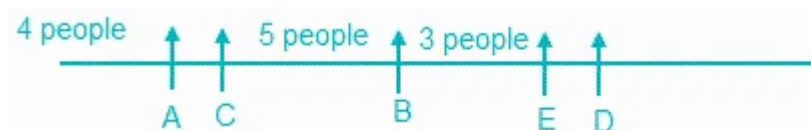
(Implies, three people are sitting between E and B.)



5) 10 people are sitting between C and D.

(Clearly, we can't place 10 people to the left of C as there are only 5 people to the left of him. Implies, D is eleventh to the right of C.)

Now, E is 10th to the right of C, implies, D is sitting to the immediate right of E.)



6) Seven people are sitting between D and F.

(Now, F can be either to the left of D or to the right of D.)

7) There are an odd number of people standing in the row.

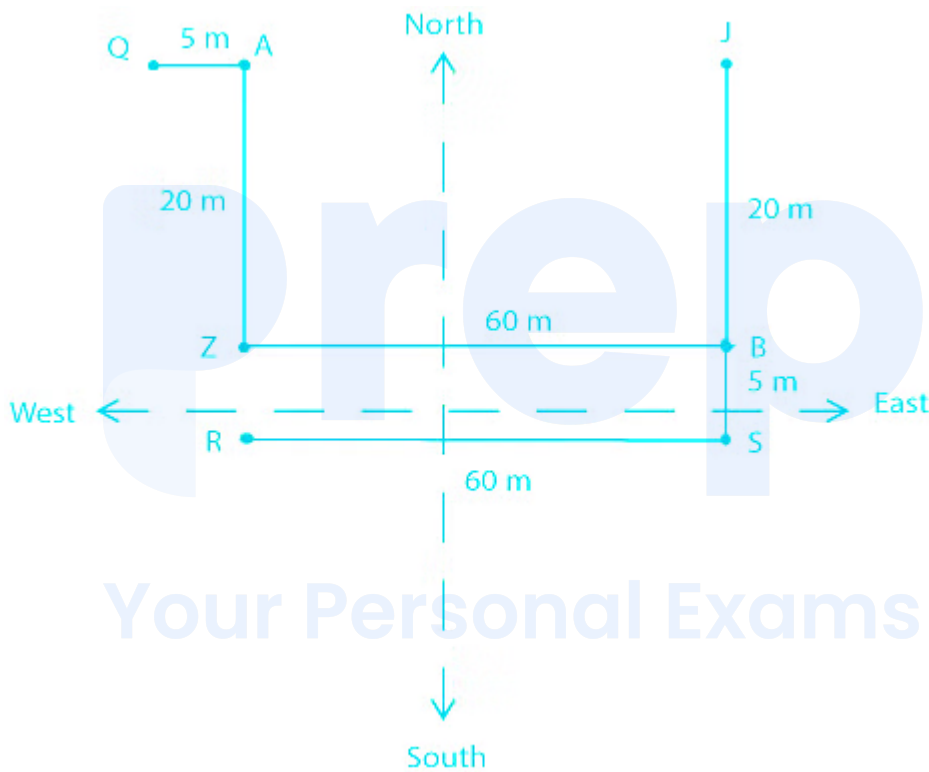
8) F is sitting to the right side of the D.



Clearly, eight people are standing between E and F.

91. Answer: c

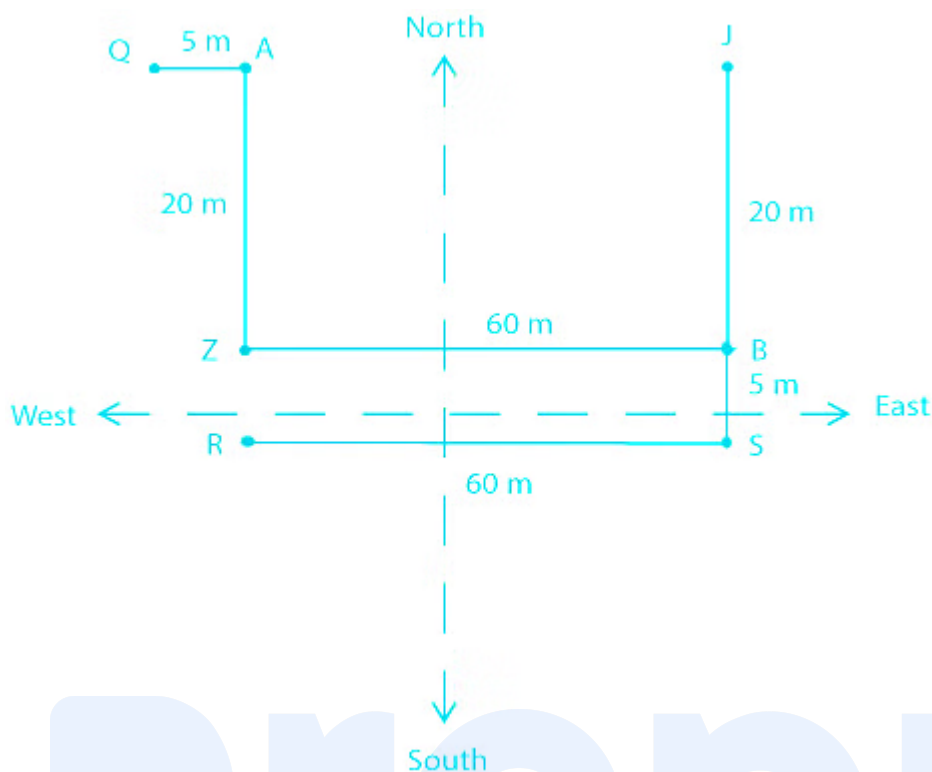
Explanation:



Hence, Q is in North – West direction with respect to S.

92. Answer: b

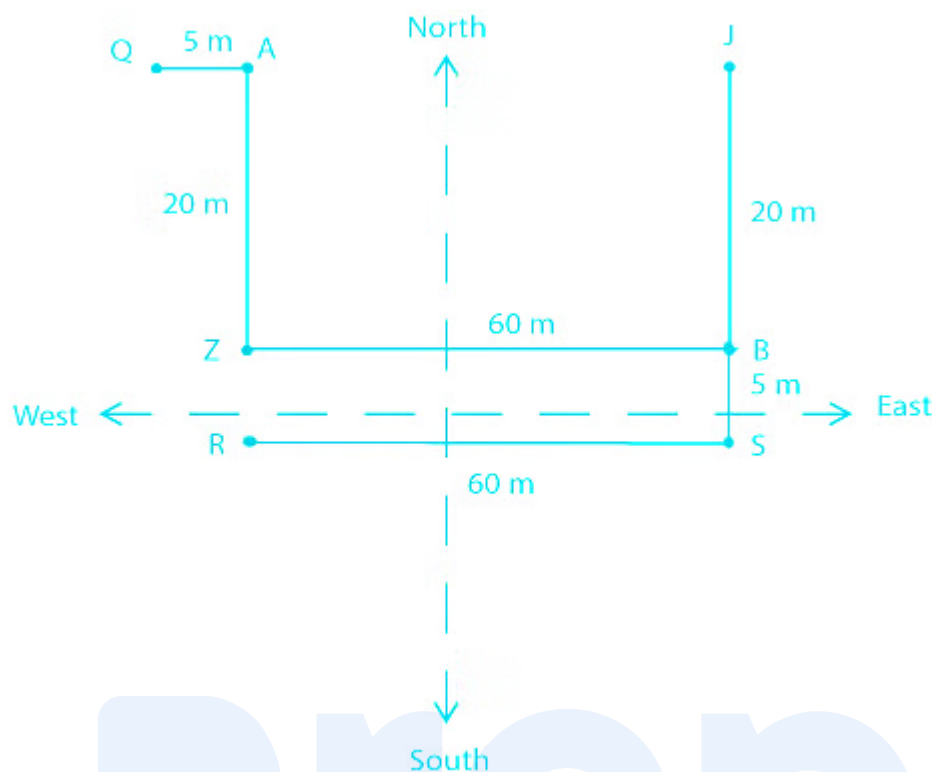
Explanation:



shortest distance between A and R is $AZ + ZR = 20\text{m} + 5\text{m} = 25\text{m}$
Hence, the shortest distance between A and R is 25 m.

93. Answer: e

Explanation:



Hence, the distance between J and W is 30 m.

94. Answer: d

Explanation:

Names Given: P, Q, R, S, T, and U

Cities Given: Delhi, Lucknow, Chennai, Kolkata, Mumbai, and Pune

Posts Given: Chairman (Highest Post), General Manager, Senior Manager, Manager, Assistant manager, and Clerk (Lowest Post)

1) P belongs to Mumbai and has the lowest post.

(As clerk is the lowest post, P is a clerk).

2) Two persons have their post between clerk and the person who belongs to Chennai.

(Hence, the one belonging to Chennai has the post of Senior Manager).

Posts	Names	Cities
Chairman		
General Manager		
Senior Manager		Chennai
Manager		
Assistant Manager		
Clerk	P	Mumbai

3) R is the senior manager and is just senior to T who belongs to Kolkata.

(Hence, T is the manager).

4) The one who belongs to Lucknow is senior to T, but is not the senior most person.

(Hence, the one who belongs to Lucknow has the post of general manager).

Posts	Names	Cities
Chairman		
General Manager		Lucknow
Senior Manager	R	Chennai
Manager	T	Kolkata
Assistant Manager		
Clerk	P	Mumbai

5) Q is the General Manager.

6) U belongs to Delhi and is junior to S.

(Hence, U will be the assistant manager and S will be the Chairman. The only city left is Pune so S will belong to Pune).

Posts	Names	Cities
Chairman	S	Pune
General Manager	Q	Lucknow
Senior Manager	R	Chennai
Manager	T	Kolkata
Assistant Manager	U	Delhi
Clerk	P	Mumbai

Hence, S belongs to Pune.

Your Personal Exams Guide

95. Answer: e

Explanation:

Names Given: P, Q, R, S, T, and U

Cities Given: Delhi, Lucknow, Chennai, Kolkata, Mumbai, and Pune

Posts Given: Chairman (Highest Post), General Manager, Senior Manager, Manager, Assistant manager, and Clerk (Lowest Post)

1) P belongs to Mumbai and has the lowest post.

(As clerk is the lowest post, P is a clerk).

2) Two persons have their post between clerk and the person who belongs to Chennai.

(Hence, the one belonging to Chennai has the post of Senior Manager).

Posts	Names	Cities
Chairman		
General Manager		
Senior Manager		Chennai
Manager		
Assistant Manager		
Clerk	P	Mumbai

3) R is the senior manager and is just senior to T who belongs to Kolkata.

(Hence, T is the manager).

4) The one who belongs to Lucknow is senior to T, but is not the senior most person.

(Hence, the one who belongs to Lucknow has the post of general manager).

Posts	Names	Cities
Chairman		
General Manager		Lucknow
Senior Manager	R	Chennai
Manager	T	Kolkata
Assistant Manager		
Clerk	P	Mumbai

5) Q is the General Manager.

6) U belongs to Delhi and is junior to S.

(Hence, U will be the assistant manager and S will be the Chairman. The only city left is Pune so S will belong to Pune).

Posts	Names	Cities
Chairman	S	Pune
General Manager	Q	Lucknow
Senior Manager	R	Chennai
Manager	T	Kolkata
Assistant Manager	U	Delhi
Clerk	P	Mumbai

Hence, the post of U is **assistant manager** .

Your Personal Exams Guide

96. **Answer: b**

Explanation:

Names Given: P, Q, R, S, T, and U

Cities Given: Delhi, Lucknow, Chennai, Kolkata, Mumbai, and Pune

Posts Given: Chairman (Highest Post), General Manager, Senior Manager, Manager, Assistant manager, and Clerk (Lowest Post)

1) P belongs to Mumbai and has the lowest post.

(As clerk is the lowest post, P is a clerk).

2) Two persons have their post between clerk and the person who belongs to Chennai.

(Hence, the one belonging to Chennai has the post of Senior Manager).

Posts	Names	Cities
Chairman		
General Manager		
Senior Manager		Chennai
Manager		
Assistant Manager		
Clerk	P	Mumbai

3) R is the senior manager and is just senior to T who belongs to Kolkata.

(Hence, T is the manager).

4) The one who belongs to Lucknow is senior to T, but is not the senior most person.

(Hence, the one who belongs to Lucknow has the post of general manager).

Posts	Names	Cities
Chairman		
General Manager		Lucknow
Senior Manager	R	Chennai
Manager	T	Kolkata
Assistant Manager		
Clerk	P	Mumbai

5) Q is the General Manager.

6) U belongs to Delhi and is junior to S.

(Hence, U will be the assistant manager and S will be the Chairman. The only city left is Pune so S will belong to Pune).

Posts	Names	Cities
Chairman	S	Pune
General Manager	Q	Lucknow
Senior Manager	R	Chennai
Manager	T	Kolkata
Assistant Manager	U	Delhi
Clerk	P	Mumbai

Hence, **two** persons have their posts between Q and U.

Your Personal Exams Guide

97. Answer: c

Explanation:

Names Given: P, Q, R, S, T, and U

Cities Given: Delhi, Lucknow, Chennai, Kolkata, Mumbai, and Pune

Posts Given: Chairman (Highest Post), General Manager, Senior Manager, Manager, Assistant manager, and Clerk (Lowest Post)

1) P belongs to Mumbai and has the lowest post.

(As clerk is the lowest post, P is a clerk).

2) Two persons have their post between clerk and the person who belongs to Chennai.

(Hence, the one belonging to Chennai has the post of Senior Manager).

Posts	Names	Cities
Chairman		
General Manager		
Senior Manager		Chennai
Manager		
Assistant Manager		
Clerk	P	Mumbai

3) R is the senior manager and is just senior to T who belongs to Kolkata.

(Hence, T is the manager).

4) The one who belongs to Lucknow is senior to T, but is not the senior most person.

(Hence, the one who belongs to Lucknow has the post of general manager).

Posts	Names	Cities
Chairman		
General Manager		Lucknow
Senior Manager	R	Chennai
Manager	T	Kolkata
Assistant Manager		
Clerk	P	Mumbai

5) Q is the General Manager.

6) U belongs to Delhi and is junior to S.

(Hence, U will be the assistant manager and S will be the Chairman. The only city left is Pune so S will belong to Pune).

Posts	Names	Cities
Chairman	S	Pune
General Manager	Q	Lucknow
Senior Manager	R	Chennai
Manager	T	Kolkata
Assistant Manager	U	Delhi
Clerk	P	Mumbai

Hence, Q belongs to Lucknow.

Your Personal Exams Guide

98. Answer: a

Explanation:

Names Given: P, Q, R, S, T, and U

Cities Given: Delhi, Lucknow, Chennai, Kolkata, Mumbai, and Pune

Posts Given: Chairman (Highest Post), General Manager, Senior Manager, Manager, Assistant manager, and Clerk (Lowest Post)

1) P belongs to Mumbai and has the lowest post.

(As clerk is the lowest post, P is a clerk).

2) Two persons have their post between clerk and the person who belongs to Chennai.

(Hence, the one belonging to Chennai has the post of Senior Manager).

Posts	Names	Cities
Chairman		
General Manager		
Senior Manager		Chennai
Manager		
Assistant Manager		
Clerk	P	Mumbai

3) R is the senior manager and is just senior to T who belongs to Kolkata.

(Hence, T is the manager).

4) The one who belongs to Lucknow is senior to T, but is not the senior most person.

(Hence, the one who belongs to Lucknow has the post of general manager).

Posts	Names	Cities
Chairman		
General Manager		Lucknow
Senior Manager	R	Chennai
Manager	T	Kolkata
Assistant Manager		
Clerk	P	Mumbai

5) Q is the General Manager.

6) U belongs to Delhi and is junior to S.

(Hence, U will be the assistant manager and S will be the Chairman. The only city left is Pune so S will belong to Pune).

Posts	Names	Cities
Chairman	S	Pune
General Manager	Q	Lucknow
Senior Manager	R	Chennai
Manager	T	Kolkata
Assistant Manager	U	Delhi
Clerk	P	Mumbai

Hence, R – Chennai – Senior Manager is the correct pair of name – city – post.

Your Personal Exams Guide

99. Answer: a

Explanation:

Given Statements: $A \leq M \geq I > T < Y$; $R \leq E < A \geq D$

On Combining: $R \leq E < A \leq M \geq I > T < Y$; $D \leq A \leq M \geq I > T < Y$

Conclusions:

I. $D \leq Y \rightarrow$ False (As, $D \leq A \leq M \geq I > T < Y \rightarrow$ Clear relation between U and A cannot be determined)

II. $M > E \rightarrow \text{True}$ (As, $E < A \leq M \rightarrow E < M$)

Hence, only II is true.

100. **Answer: c**

Explanation:

Given Statements: $L < B > M = U \geq T$; $Y \leq R \leq L$

On Combining: $Y \leq R \leq L < B > M = U \geq T$

Conclusions:

I. $T < B \rightarrow \text{True}$ (As, $B > M = U \geq T \rightarrow B > T$)

II. $B > Y \rightarrow \text{True}$ (As, $Y \leq R \leq L < B \rightarrow Y < B$)

Hence, both I and II are true.

Your Personal Exams Guide