



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 1

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.

Your Personal Exams Guide

English Language

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

(+1, -0.25)

The purpose of Artificial Intelligence(AI) is to aid human capabilities and help us make advanced decisions with far-reaching consequences. That's the answer from a technical standpoint. From a philosophical perspective, Artificial Intelligence has the potential to help humans live more meaningful lives devoid of hard labour, and help manage the complex web of interconnected individuals, companies, states, and nations to function in a manner that's beneficial to all of humanity.

Currently, the purpose of Artificial Intelligence is shared by all the different tools and techniques that we've invented over the past thousand years – to simplify human effort, and to help us make better decisions. Artificial Intelligence has also been touted as our Final Invention, a creation that would invent ground-breaking tools and services that would exponentially change how we lead our lives, by hopefully removing **strife**, inequality, and human suffering.

That's all in the far future though – we're still a long way from those kinds of outcomes. Currently, Artificial Intelligence is being used mostly by companies to improve their process efficiencies, automate resource-heavy tasks, and to make business predictions based on hard data rather than gut feelings. As all technology that has come before this, the research and development costs need to be subsidized by corporations and government agencies before it becomes accessible to everyday laymen.

The purpose of philosophy for humans is to help us understand our actions, their consequences, and how we can make better decisions. Modern intelligent systems can be built by following the different approaches of philosophy that will enable these systems to make the right decisions, mirroring the way that an ideal human being would think and **behave**. Philosophy would help these machines think and understand about the nature of knowledge itself. It would also help them make the connection between knowledge and action through goal-based analysis to achieve desirable outcomes.

If there is a **synergy** between man and machine, if they are able to work fully in tandem, this world will undergo a sea change and our everyday lives would be completely transformed.

What could be a suitable title for the passage?

- a. Human beings and their problems
- b. How AI works- detailed analysis

- c. Technology- then and now
- d. Artificial Intelligence
- e. None of these

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

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completely transformed.

What is the purpose of AI?

- a. To aid human capabilities
- b. To make advanced decisions with far-reaching consequences
- c. To completely remove manual interaction
- d. To make better decisions and simplify human effort
- e. 1, 2 and 4

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

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What has been touted as the final invention?

- a. Computers
- b. Data Drives
- c. Artificial Intelligence
- d. Mobile Phones
- e. None of these

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How can we build modern intelligent systems?

- a. Through technical overhauls
- b. Through rigorous machine learning
- c. Through data science
- d. By making AI mirror human behaviour
- e. None of these

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

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What is the antonym of strife?

- a. Dissent
- b. Schism
- c. Discord
- d. Conflict
- e. Concurrence

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What is the synonym of 'behave'?

- a. Function
- b. Control
- c. Modulate

- d. Misbehave
- e. None of these

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What should be ensured before AI reaches the masses ?

- a. It is properly marketed on social media
- b. More and more money is pumped into research and development
- c. Government agencies and corporations subsidize the research and development costs
- d. Schools start teaching it as a core subject
- e. All of these

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

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What is the synonym of 'synergy'?

- a. Alliance
- b. Divorce
- c. Catapult
- d. Clandestine
- e. Energy

9. Fill in the blanks with appropriate words.

(+1, -0.25)

Logistics can be traced all the way back to the Greek and Roman empires, but it's undergone several major ____ (1) ____ as new technologies provide opportunities to more efficiently manage the movement and storage of goods. In the digital transformation age, logistics is once again undergoing a major shift. Logistics technologies such as robotic warehouse systems make automation a reality, while drones improve last-mile delivery capabilities and better tracking with tools like RFID tags improves visibility throughout the supply chain. These technologies also contribute to a rise in big data and analytics in the logistics field. RFID tags and robotic warehouse systems generate and transmit data that, when combined with other data sources, allow companies to optimize the supply chain and make better ____ (2) ____ and forecasts to improve efficiency and boost the bottom line. Increasing technology innovations are making big waves across industries, and logistics and the supply chain may be one of the most impacted sectors. Notorious for its heavy use of manual processes and large amounts of data stored in different ways and in different places, the logistics industry has perhaps the most to gain from ____ (3) ____ new technologies and following the most innovative Supply Chain and Logistics technology trends. Recent years have seen massive advancement for the logistics industry in areas like artificial and augmented intelligence, advanced analytics, and automation, to name just a few. These technologies have evolved faster than ever

while startups with even newer solutions and innovations continue popping up at a ____ (4) ____ rate. But attached to these innovations are new expectations and standards, forcing logistics companies to either adapt or fall behind. Much pressure comes from customers in the form of individuals and enterprises, all of who are demanding their products or services come faster and cheaper than ever before. But advancements in technologies aren't the only big changes influencing the industry. From new shipping ____ (5) ____ to growing global tensions and trade wars, and a predicted economic recession, logistics companies will need to be alert and prepared for 2020. For example, carriers are already working hard to meet the global 0.5% Sulphur cap, which goes into effect on January 1, 2020. It would ____ (6) ____ up to 70,000 ships, according to IMO estimates, and could lead to a 20-30% increase in total fuel costs, which would ultimately be passed on to customers. Global trade wars and tensions like that of China and the U.S. have continued affecting logistics operations. In 2018, trade tariffs affected \$34 billion worth of Chinese products imported into the U.S., with China also taking costly countermeasures on U.S. imports. The European economy has also been going into a downturn as Brexit concerns continue weighing heavily on European countries, and the U.S. economy has also been growing weaker. All of these issues are signaling a possible global ____ (7) ____ in 2020, which would make things much more ____ (8) ____ for logistics companies.

What should come in place of blank (1)?

- a. Concise
- b. Trials
- c. Transformations
- d. Embargo
- e. Headway

10. Fill in the blanks with appropriate words.

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What should come in place of blank (2)?

- a. Hope
- b. Support
- c. Prediction

d. Anthology

e. Animosity

11. Fill in the blanks with appropriate words.

(+1, -0.25)

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What should come in place of blank (3)

- a. Implementing
- b. Ridiculing
- c. Respecting
- d. Ignoring
- e. Thinking

12. Fill in the blanks with appropriate words.

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What should come in place of blank (4)

- a. Unnerving
- b. Rapid
- c. Slow
- d. Agile
- e. Subjective

13. Fill in the blanks with appropriate words.

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What should come in place of blank (5)

- a. Organizations
- b. Feedbacks
- c. Data
- d. Restrictions

14. Fill in the blanks with appropriate words.

(+1, -0.25)

Logistics can be traced all the way back to the Greek and Roman empires, but it's undergone several major _____ (1) _____ as new technologies provide opportunities to more efficiently manage the movement and storage of goods. In the digital transformation age, logistics is once again undergoing a major shift. Logistics technologies such as robotic warehouse systems make automation a reality, while drones improve last-mile delivery capabilities and better tracking with tools like RFID tags improves visibility throughout the supply chain. These technologies also contribute to a rise in big data and analytics in the logistics field. RFID tags and robotic warehouse systems generate and transmit data that, when combined with other data sources, allow companies to optimize the supply chain and make better _____ (2) _____ and forecasts to improve efficiency and boost the bottom line. Increasing technology innovations are making big waves across industries, and logistics and the supply chain may be one of the most impacted sectors. Notorious for its heavy use of manual processes and large amounts of data stored in different ways and in different places, the logistics industry has perhaps the most to gain from _____ (3) _____ new technologies and following the most innovative Supply Chain and Logistics technology trends. Recent years have seen massive advancement for the logistics industry in areas like artificial and augmented intelligence, advanced analytics, and automation, to name just a few. These technologies have evolved faster than ever while startups with even newer solutions and innovations continue popping up at a _____ (4) _____ rate. But attached to these innovations are new expectations and standards, forcing logistics companies to either adapt or fall behind. Much pressure comes from customers in the form of individuals and enterprises, all of who are demanding their products or services come faster and cheaper than ever before. But advancements in technologies aren't the only big changes influencing the industry. From new shipping _____ (5) _____ to growing global tensions and trade wars, and a predicted economic recession, logistics companies will need to be alert and prepared for 2020. For example, carriers are already working hard to meet the global 0.5% Sulphur cap, which goes into effect on January 1, 2020. It would _____ (6) _____ up to 70,000 ships, according to IMO estimates, and could lead to a 20-30% increase in total fuel costs, which would ultimately be passed on to customers. Global trade wars and tensions like that of China and the U.S. have continued affecting logistics operations. In 2018, trade tariffs affected \$34 billion worth of Chinese products imported into the U.S., with China also taking costly countermeasures on U.S. imports. The European economy has also been going into a downturn as Brexit

concerns continue weighing heavily on European countries, and the U.S. economy has also been growing weaker. All of these issues are signaling a possible global _____ (7) _____ in 2020, which would make things much more _____ (8) _____ for logistics companies.

What should come in place of blank (6)

- a. Effect
- b. Affect
- c. Adhere
- d. Procrastinate
- e. Feel

15. Fill in the blanks with appropriate words.

(+1, -0.25)

Logistics can be traced all the way back to the Greek and Roman empires, but it's undergone several major _____ (1) _____ as new technologies provide opportunities to more efficiently manage the movement and storage of goods. In the digital transformation age, logistics is once again undergoing a major shift. Logistics technologies such as robotic warehouse systems make automation a reality, while drones improve last-mile delivery capabilities and better tracking with tools like RFID tags improves visibility throughout the supply chain. These technologies also contribute to a rise in big data and analytics in the logistics field. RFID tags and robotic warehouse systems generate and transmit data that, when combined with other data sources, allow companies to optimize the supply chain and make better _____ (2) _____ and forecasts to improve efficiency and boost the bottom line. Increasing technology innovations are making big waves across industries, and logistics and the supply chain may be one of the most impacted sectors. Notorious for its heavy use of manual processes and large amounts of data stored in different ways and in different places, the logistics industry has perhaps the most to gain from _____ (3) _____ new technologies and following the most innovative Supply Chain and Logistics technology trends. Recent years have seen massive advancement for the logistics industry in areas like artificial and augmented intelligence, advanced analytics, and automation, to name just a few. These technologies have evolved faster than ever while startups with even newer solutions and innovations continue popping up at a _____ (4) _____ rate. But attached to these innovations are new expectations and

standards, forcing logistics companies to either adapt or fall behind. Much pressure comes from customers in the form of individuals and enterprises, all of who are demanding their products or services come faster and cheaper than ever before. But advancements in technologies aren't the only big changes influencing the industry. From new shipping _ _ _ (5) _ _ _ _ to growing global tensions and trade wars, and a predicted economic recession, logistics companies will need to be alert and prepared for 2020. For example, carriers are already working hard to meet the global 0.5% Sulphur cap, which goes into effect on January 1, 2020. It would _ _ _ _ (6) _ _ _ _ up to 70,000 ships, according to IMO estimates, and could lead to a 20-30% increase in total fuel costs, which would ultimately be passed on to customers. Global trade wars and tensions like that of China and the U.S. have continued affecting logistics operations. In 2018, trade tariffs affected \$34 billion worth of Chinese products imported into the U.S., with China also taking costly countermeasures on U.S. imports. The European economy has also been going into a downturn as Brexit concerns continue weighing heavily on European countries, and the U.S. economy has also been growing weaker. All of these issues are signaling a possible global _ _ _ _ (7) _ _ _ _ in 2020, which would make things much more _ _ _ _ (8) _ _ _ _ for logistics companies.

What should come in place of blank (7)

- a. Inflation
- b. Recession
- c. Stagnancy
- d. Diversification
- e. Destruction

16. Fill in the blanks with appropriate words.

(+1, -0.25)

Logistics can be traced all the way back to the Greek and Roman empires, but it's undergone several major _ _ _ _ (1) _ _ _ _ as new technologies provide opportunities to more efficiently manage the movement and storage of goods. In the digital transformation age, logistics is once again undergoing a major shift. Logistics technologies such as robotic warehouse systems make automation a reality, while drones improve last-mile delivery capabilities and better tracking with tools like RFID tags improves visibility throughout the supply chain. These technologies also contribute to a rise in big data and analytics in the logistics field. RFID tags and robotic

warehouse systems generate and transmit data that, when combined with other data sources, allow companies to optimize the supply chain and make better _____ (2) _____ and forecasts to improve efficiency and boost the bottom line. Increasing technology innovations are making big waves across industries, and logistics and the supply chain may be one of the most impacted sectors. Notorious for its heavy use of manual processes and large amounts of data stored in different ways and in different places, the logistics industry has perhaps the most to gain from _____ (3) _____ new technologies and following the most innovative Supply Chain and Logistics technology trends. Recent years have seen massive advancement for the logistics industry in areas like artificial and augmented intelligence, advanced analytics, and automation, to name just a few. These technologies have evolved faster than ever while startups with even newer solutions and innovations continue popping up at a _____ (4) _____ rate. But attached to these innovations are new expectations and standards, forcing logistics companies to either adapt or fall behind. Much pressure comes from customers in the form of individuals and enterprises, all of who are demanding their products or services come faster and cheaper than ever before. But advancements in technologies aren't the only big changes influencing the industry. From new shipping _____ (5) _____ to growing global tensions and trade wars, and a predicted economic recession, logistics companies will need to be alert and prepared for 2020. For example, carriers are already working hard to meet the global 0.5% Sulphur cap, which goes into effect on January 1, 2020. It would _____ (6) _____ up to 70,000 ships, according to IMO estimates, and could lead to a 20-30% increase in total fuel costs, which would ultimately be passed on to customers. Global trade wars and tensions like that of China and the U.S. have continued affecting logistics operations. In 2018, trade tariffs affected \$34 billion worth of Chinese products imported into the U.S., with China also taking costly countermeasures on U.S. imports. The European economy has also been going into a downturn as Brexit concerns continue weighing heavily on European countries, and the U.S. economy has also been growing weaker. All of these issues are signaling a possible global _____ (7) _____ in 2020, which would make things much more _____ (8) _____ for logistics companies.

What should come in place of blank (8)?

- a. Strange
- b. Horrible
- c. Difficult
- d. Smooth

e. None of these

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 punctuation if any. (+1, -0.25)

The professor was furious (1)/ with the students as they were (2)/ much late in entering the exam hall (3)/ on the day of their exam. (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 if any, will be in one part of the sentence. The number of that part will be the answer. If there is no error, then the answer will be (5). Ignore the error of punctuation if any. (+1, -0.25)

Less people have (1)/ ever had the courage to (2)/ ride an angry bull(3)/ let alone a matador. (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 if any, will 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 errors of punctuation if any. (+1, -0.25)

The detective decided to (1)/look into the cold case (2)/ inspite of it being abandoned for (3)/ over 30 years. (4)/ No Error (5)

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

20. Read the sentence to find out if there is any error in it. If there is any error 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. (+1, -0.25)

The pen pal that Samuel had recently made (1)/ asked him to send the (2)/ letter on his new address (3)/ as he had recently shifted. (4)/ No Error (5)

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

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

Both the(1)/ jury and the judge has (2)/ come to the same (3)/ conclusion regarding this case. (4)/ No error (5)

- a. 1
- b. 2

- c. 3
- d. 4
- e. 5

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

A. He was wearing a grey suit, slightly big for his build, and an old leather bag was on the chair next to him.

B. His expressionless face appeared forbidding, but as I found soon enough, Baig easily bursts into laughter, adding an unexpected softness to his apparent stoicism.

C. When I entered the restaurant, the author of my book, Mirza Baig, was already at a table, waiting for me.

D. The manuscript of the translation I had sent was placed neatly on the table in front of him, and he was scanning it with what seemed to be perturbed eyes.

E. I was embarrassed about being late, but this would happen every time I met him.

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

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

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

- A. He was wearing a grey suit, slightly big for his build, and an old leather bag was on the chair next to him.
- B. His expressionless face appeared forbidding, but as I found soon enough, Baig easily bursts into laughter, adding an unexpected softness to his apparent stoicism.
- C. When I entered the restaurant, the author of my book, Mirza Baig, was already at a table, waiting for me.
- D. The manuscript of the translation I had sent was placed neatly on the table in front of him, and he was scanning it with what seemed to be perturbed eyes.
- E. I was embarrassed about being late, but this would happen every time I met him.

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

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

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

- A. He was wearing a grey suit, slightly big for his build, and an old leather bag was on the chair next to him.
- B. His expressionless face appeared forbidding, but as I found soon enough, Baig easily bursts into laughter, adding an unexpected softness to his apparent stoicism.
- C. When I entered the restaurant, the author of my book, Mirza Baig, was already at a table, waiting for me.
- D. The manuscript of the translation I had sent was placed neatly on the table in front of him, and he was scanning it with what seemed to be perturbed eyes.
- E. I was embarrassed about being late, but this would happen every time I met him.

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

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

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

- A. He was wearing a grey suit, slightly big for his build, and an old leather bag was on the chair next to him.
- B. His expressionless face appeared forbidding, but as I found soon enough, Baig easily bursts into laughter, adding an unexpected softness to his apparent stoicism.
- C. When I entered the restaurant, the author of my book, Mirza Baig, was already at a table, waiting for me.
- D. The manuscript of the translation I had sent was placed neatly on the table in front of him, and he was scanning it with what seemed to be perturbed eyes.
- E. I was embarrassed about being late, but this would happen every time I met him.

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

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

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

A. He was wearing a grey suit, slightly big for his build, and an old leather bag was on the chair next to him.

B. His expressionless face appeared forbidding, but as I found soon enough, Baig easily bursts into laughter, adding an unexpected softness to his apparent stoicism.

C. When I entered the restaurant, the author of my book, Mirza Baig, was already at a table, waiting for me.

D. The manuscript of the translation I had sent was placed neatly on the table in front of him, and he was scanning it with what seemed to be perturbed eyes.

E. I was embarrassed about being late, but this would happen every time I met him.

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

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

27. In the given sentence a word has been emboldened. Select the best alternative for the bold word from the given options. If none follows, select option 5 as your answer. (+1, -0.25)

The Queen staked her **reputation** with her new pro-choice policy.

- a. Post
- b. Monarchy
- c. Throne
- d. Honour

e. None

-
28. In the given sentence a word has been emboldened. Select the best alternative for the bold word from the given options. If none follows, select option 5 as your answer. (+1, -0.25)

The doctor was very glad to inform the patient that his tumor was **benign**.

- a. Malignant
- b. Spreading
- c. Harmless
- d. Painful
- e. None

-
29. In the given sentence a word has been emboldened. Select the best alternative for the bold word from the given options. If none follows, select option 5 as your answer. (+1, -0.25)

Andrea **committed** to spend at least 10 hours a week at the charity.

- a. Brokered
- b. Pledged
- c. Penetrated
- d. Seemed
- e. None

-
30. In the given sentence a word has been emboldened. Select the best alternative for the bold word from the given options. If none follows, select option 5 as your answer. (+1, -0.25)

The pastor was **gracious** enough to give the desperate couple shelter on that rainy night.

- a. Insolent

- b.** Courteous
- c.** Arrogant
- d.** Disrespectful
- e.** None

prepp

Your Personal Exams Guide

Quantitative Aptitude

31. Find the wrong number in the given series:

(+1, -0.25)

5040, 720, 120, 60, 6, 2

- a. 720
- b. 6
- c. 120
- d. 60
- e. 2

32. Find the wrong number in the given series:

(+1, -0.25)

1, 8, 32, 48, 173

- a. 1
- b. 8
- c. 32
- d. 48
- e. 173

33. Find the wrong number in the given series:

(+1, -0.25)

4, 5, 11, 34, 137, 684

- a. 4
- b. 5
- c. 11

- d. 137
- e. 684

34. Find the wrong number in the given series:

(+1, -0.25)

72, 20, 40, 24, 32, 28

- a. 28
- b. 20
- c. 40
- d. 24
- e. 32

35. Find the wrong number in the given series:

(+1, -0.25)

40, 35, 45, 30, 50, 20

- a. 40
- b. 35
- c. 45
- d. 20
- e. 50

36. A is 40% more efficient than B and both together can complete a work in $9\frac{3}{8}$ days. If A works for the first five days alone and the remaining work completed by B. Then find in how many days total work will be completed ?

(+1, -0.25)

- a. $15\frac{1}{5}$ Days
- b. $20\frac{1}{2}$ Days

- c. 20 Days
 - d. 16 Days
 - e. 18 Days
-

37. A train running at speed of 54 km/hr crosses a platform of length same as that of the train in 36 seconds. If train which is 230 meters long crosses the same platform in 25 Seconds, then find the speed of train B (in km/hr). (+1, -0.25)

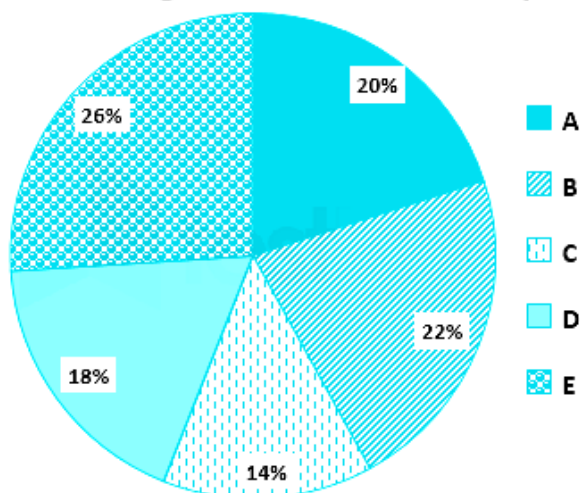
- a. 54 km/hr
 - b. 88 km/hr
 - c. 59 km/hr
 - d. 72 km/hr
 - e. 108 km/hr
-

38. A man invested a sum at certain rate of interest on simple interest and he got 60% more amount after 8 years. If he invest Rs.9600 at the same rate of interest on SI then find total interest he would get after four years (+1, -0.25)

- a. Rs. 3844
 - b. Rs. 2880
 - c. Rs. 2520
 - d. Rs. 2160
 - e. Rs. 2260
-

39. **Direction:** The following pie chart given below is based on percentage of book sold by 5 different people A, B, C, D, and E on Monday (+1, -0.25)

Percentage of book sold on Monday



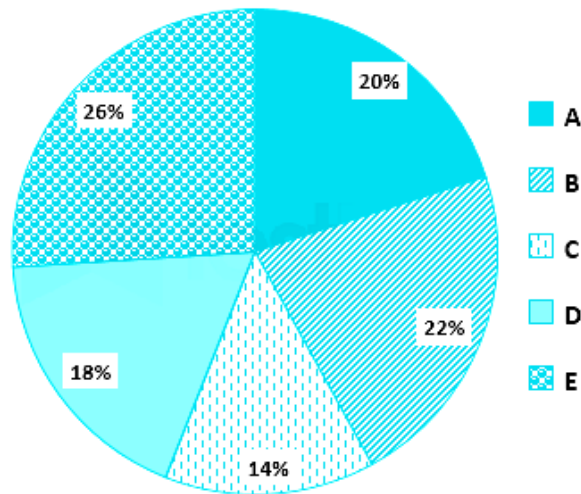
If the total number of books sold on Monday is 750 then answer the following questions based on the given pie chart.

Find the ratio of average number of book sold by B and D together to the number of books sold by A alone.

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

40. **Direction:** The following pie chart given below is based on percentage of book sold by 5 different people A, B, C, D, and E on Monday (+1, -0.25)

Percentage of book sold on Monday



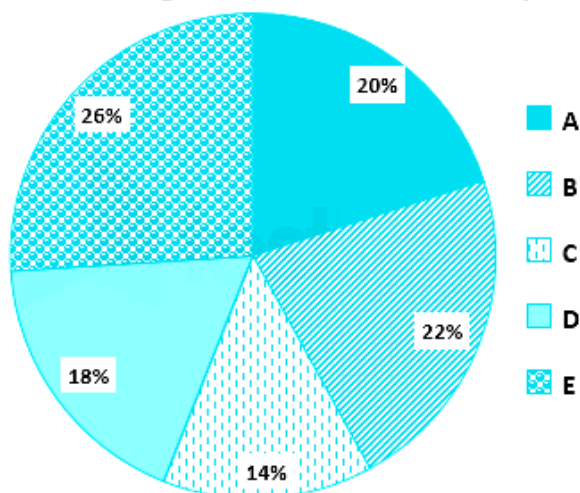
If the total number of books sold on Monday is 750 then answer the following questions based on the given pie chart.

Find the difference between the average numbers of books sold by B and E together to average number of books sold by C and D together.

- a. 55
- b. 65
- c. 60
- d. 40
- e. 45

41. **Direction:** The following pie chart given below is based on percentage of book sold by 5 different people A, B, C, D, and E on Monday (+1, -0.25)

Percentage of book sold on Monday



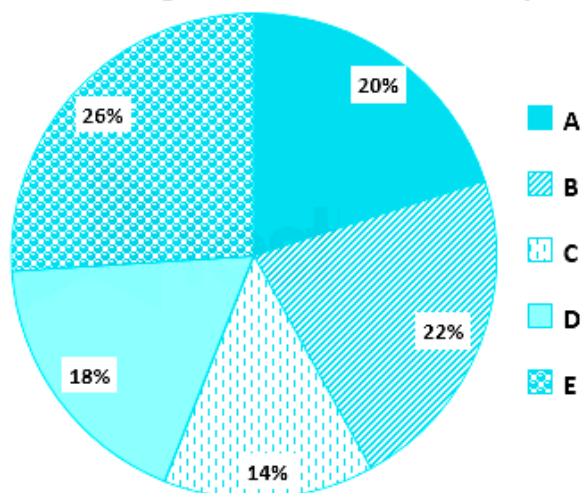
If the total number of books sold on Monday is 750 then answer the following questions based on the given pie chart.

If on Tuesday the book sold by A is increased by 15% from previous day then find by how much percent the book sold by A on Tuesday is more than the book sold by D on Monday?

- a. 22.38%
- b. 27.78%
- c. 36.23%
- d. 12.5%
- e. 14.28%

42. **Direction:** The following pie chart given below is based on percentage of book sold by 5 different people A, B, C, D, and E on Monday (+1, -0.25)

Percentage of book sold on Monday



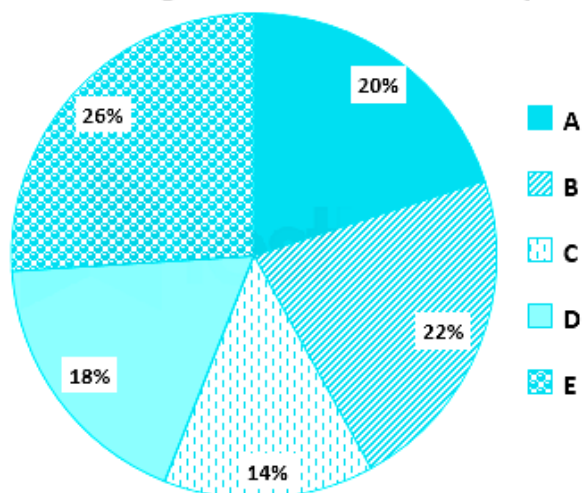
If the total number of books sold on Monday is 750 then answer the following questions based on the given pie chart.

Find the ratio of the total angle made by D and E together to the angle made by B and D together on pie chart.

- a. 13 : 14
- b. 2 : 3
- c. 1 : 2
- d. 9 : 8
- e. 11 : 10

43. **Direction:** The following pie chart given below is based on percentage of book sold by 5 different people A, B, C, D, and E on Monday (+1, -0.25)

Percentage of book sold on Monday



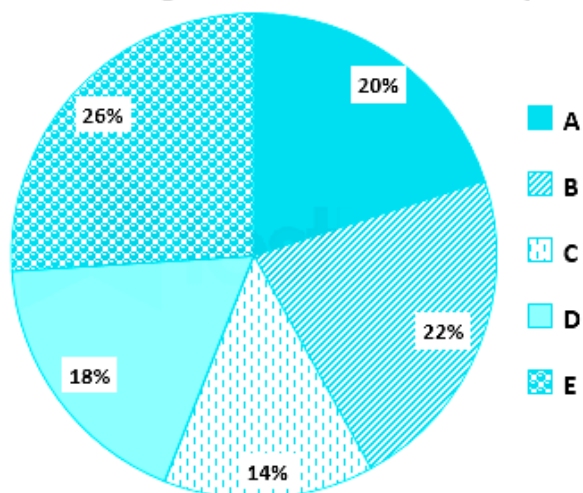
If the total number of books sold on Monday is 750 then answer the following questions based on the given pie chart.

If a person F sold 20% more books compare to B on Monday then find the total number of books sold by F

- a. 198
- b. 216
- c. 200
- d. 180
- e. 225

44. **Direction:** The following pie chart given below is based on percentage of book sold by 5 different people A, B, C, D, and E on Monday (+1, -0.25)

Percentage of book sold on Monday



If the total number of books sold on Monday is 750 then answer the following questions based on the given pie chart.

If the book sold on Tuesday is 66.67% more than the book sold on Monday then find the difference between the numbers of book sold by C to the number of book sold by E using same pie chart.

- a. 120
- b. 150
- c. 250
- d. 350
- e. 400

45. Four years ago, the ratio of age of A and B was 3:4, Average of the present age of A, B and C is 26 years. C is 11 years younger than B. What is the present age of B? (+1, -0.25)

- a. 25 years
- b. 21 years
- c. 22 years
- d. 32 years

e. 26 years

46. A man deposits 10% of his salary in PF. He saves 30% of remaining. The ratio of its expenses on medicine and groceries is 3 : 4 of remaining salary after saving. If his expenses on medicine was Rs. 2700. Find the monthly salary. (+1, -0.25)

a. Rs. 10,000

b. Rs. 17,000

c. Rs. 15,000

d. Rs. 18,000

e. Rs. 14,000

47. In a mixture of milk and water the proportion of milk is 60% by weight. If from 80 gm of mixture, 20gm mixture taken out and 6 gm of water added to the mixture. Then find the ratio of milk and water in the new mixture. (+1, -0.25)

a. 8 : 7

b. 7 : 6

c. 6 : 5

d. 5 : 4

e. 7 : 5

48. 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. $x^2 - 26x + 168 = 0$

II. $y^2 - 32y + 252 = 0$

a. $x > y$

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

49. 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. $3x^2 - 11x + 10 = 0$

II. $4y^2 + 24y + 35 = 0$

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

50. 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. $x^2 - 20x + 91 = 0$

II. $y^2 - 34y + 273 = 0$

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

51. 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. $2x^2 - 14x + 24 = 0$

II. $y^2 + 30y + 224 = 0$

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

52. 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. $(x - 13)^2 = 0$

II. $y^2 = 169$

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

53. A sphere is melted and molded into solid cylinder. If radius of both solids are equal. then find the ratio of total surface area of sphere to total surface area of cylinder. (+1, -0.25)

- a. 5 : 3
- b. 6 : 7

- c. 2 : 3
- d. 4 : 3
- e. 7 : 6

54. Three partners P, Q and R invested their amounts in ratio 2 : 5 : 7. At the end of six months P added some more amount such that his investment becomes equal to half of the sum of initial investment of 'Q' and 'R'. If at the end of the year, Q's share in profit is Rs 425, then find the total profit. (+1, -0.25)

- a. Rs. 1250
- b. Rs. 1450
- c. Rs. 1050
- d. Rs. 1840
- e. Rs. 1360

55. The shopkeepers mark up the price of LED, 60% above its cost price and give three successive discounts of 12.5%, d% and 25%. If shopkeeper made a loss of 16% on LED, then find the second discount allowed by the shopkeeper. (+1, -0.25)

- a. 20%
- b. 16%
- c. 17.50%
- d. 16.33%
- e. 18%

56. Directions: Read the following tabulation carefully and answer the questions given below. (+1, -0.25)

The following table shows total number of students and the percentage of the girls in different years in different schools. Total number of student consist of number of Boys and number of Girls.

Year	1999		2005	
School	Total students	Percentage of girls	Total students	Percentage of girls
School A	300	40%	500	50%
School B	200	30%	600	75%
School C	400	60%	800	30%

If number of girls of School A in year 1999 increased by 10% and number of boys of school B in year 2005 decreased by 20% , then find the ratio between present number of girls of School A in year 1999 to present number of boys of school B in year 2005.

- a. 11 : 10
- b. 12 : 13
- c. 11 : 12
- d. 12 : 11
- e. 13 : 12

57. Directions: Read the following tabulation carefully and answer the questions given below. (+1, -0.25)

The following table shows total number of students and the percentage of the girls in different years in different schools. Total number of student consist of number of Boys and number of Girls.

Year	1999		2005	
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School B	200	30%	600	75%
School C	400	60%	800	30%

Find the total number of boys in all the three school together in year 1999 and 2005.

- a. 1210
- b. 1960
- c. 1000
- d. 1440
- e. 1690

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58. Directions: Read the following tabulation carefully and answer the questions given below. (+1, -0.25)

The following table shows total number of students and the percentage of the girls in different years in different schools. Total number of student consist of number of Boys and number of Girls.

Year	1999		2005	
School	Total students	Percentage of girls	Total students	Percentage of girls
School A	300	40%	500	50%
School B	200	30%	600	75%
School C	400	60%	800	30%

The number of the girls of school A in 1999 is approximately what percentage more/less than the number of boys of school B in 2005?

- a. 25%
- b. 20%
- c. 30%
- d. 40%
- e. 10%

59. Directions: Read the following tabulation carefully and answer the questions given below.

(+1, -0.25)

The following table shows total number of students and the percentage of the girls in different years in different schools. Total number of student consist of number of Boys and number of Girls.

Year	1999		2005	
School	Total students	Percentage of girls	Total students	Percentage of girls
School A	300	40%	500	50%
School B	200	30%	600	75%
School C	400	60%	800	30%

Find the average of all girls of three schools in 1999.

- a. 100
- b. 130
- c. 120
- d. 140
- e. 110

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

The following table shows total number of students and the percentage of the girls in different years in different schools. Total number of student consist of number of Boys and number of Girls.

Year	1999		2005	
School	Total students	Percentage of girls	Total students	Percentage of girls
School A	300	40%	500	50%
School B	200	30%	600	75%
School C	400	60%	800	30%

What is the difference between total students of schools A and B in 1999 to total number of students of school C in 1999 and 2005?

- a. 300
- b. 400
- c. 500
- d. 600
- e. 700

61. Directions: Read the following tabulation carefully and answer the questions given below.

(+1, -0.25)

The following table shows total number of students and the percentage of the girls in different years in different schools. Total number of student consist of number of Boys and number of Girls.

Year	1999		2005	
School	Total students	Percentage of girls	Total students	Percentage of girls
School A	300	40%	500	50%
School B	200	30%	600	75%
School C	400	60%	800	30%

Find the ratio between the numbers of boys of school B in 2005 to the number of the girls of school A in 1999.

- a. 5 : 4
- b. 2 : 5
- c. 5 : 3
- d. 3 : 7
- e. 3 : 5

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62. Speed of a boat in still water is 12 kmph and the speed of the stream is x kmph. If in travelling 270 km upstream boat takes $66\frac{2}{3}\%$ more time than travelling 270 km downstream. Find the value of x .

(+1, -0.25)

- a. 2 Kmph
- b. 4 Kmph
- c. 1 Kmph
- d. 3 Kmph

e. 6 Kmph

63. If we multiply fraction by itself and divide the product by its reciprocal then the fraction thus obtained is $18 \frac{26}{27}$. The fraction is. (+1, -0.25)

a. $\frac{8}{27}$

b. $2\frac{2}{3}$

c. $1\frac{1}{3}$

d. $2\frac{1}{3}$

e. None of these

64. The radius of a circle is 14 cm. what is the area of another circle having radius 1.5 time of actual circle ? (+1, -0.25)

a. 1485 cm^2

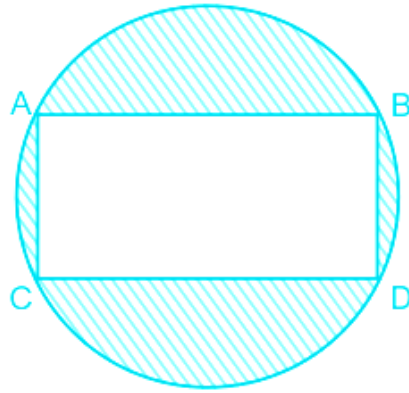
b. 1352 cm^2

c. 1276 cm^2

d. 1386 cm^2

e. 1296 cm^2

65. A rectangle whose length and width are in the ratio of 3:4 and the perimeter of the rectangle is 28 cm. If the rectangle is inscribed in a circle, the shaded area of circle is



- a. 22.57 cm^2
- b. 25.74 cm^2
- c. 27.43 cm^2
- d. 30.57 cm^2
- e. 33.12 cm^2

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Reasoning Ability

66. **Direction:** Read the information given below and answer the question that follows. (+1, -0.25)

Eight students M, N, O, P, Q, R, S and T are sitting in a horizontal row. Four students are facing north while four students are facing south. N sits second to the right of R and both face south direction. O sits third to the left of P and both face in the same direction. One student sits between O and S, who sits at one of the extreme ends. N is not adjacent to O. Q is not adjacent to O. T faces north and sits neither adjacent to S nor R. Neighbours of M face in the same direction but opposite to that of M.

Who sits immediately right of M?

- a. O
- b. T
- c. R
- d. S
- e. N

67. **Direction:** Read the information given below and answer the question that follows. (+1, -0.25)

Eight students M, N, O, P, Q, R, S and T are sitting in a horizontal row. Four students are facing north while four students are facing south. N sits second to the right of R and both face south direction. O sits third to the left of P and both face in the same direction. One student sits between O and S, who sits at one of the extreme ends. N is not adjacent to O. Q is not adjacent to O. T faces north and sits neither adjacent to S nor R. Neighbours of M face in the same direction but opposite to that of M.

How many students sit to the left of N?

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

e. Three

68. **Direction:** Read the information given below and answer the question that follows. (+1, -0.25)

Eight students M, N, O, P, Q, R, S and T are sitting in a horizontal row. Four students are facing north while four students are facing south. N sits second to the right of R and both face south direction. O sits third to the left of P and both face in the same direction. One student sits between O and S, who sits at one of the extreme ends. N is not adjacent to O. Q is not adjacent to O. T faces north and sits neither adjacent to S nor R. Neighbours of M face in the same direction but opposite to that of M.

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

a. S

b. O

c. Q

d. P

e. T

69. **Direction:** Read the information given below and answer the question that follows. (+1, -0.25)

Eight students M, N, O, P, Q, R, S and T are sitting in a horizontal row. Four students are facing north while four students are facing south. N sits second to the right of R and both face south direction. O sits third to the left of P and both face in the same direction. One student sits between O and S, who sits at one of the extreme ends. N is not adjacent to O. Q is not adjacent to O. T faces north and sits neither adjacent to S nor R. Neighbours of M face in the same direction but opposite to that of M.

_____ sits third to the left of M.

a. T

b. N

c. P

d. R

e. S

70. **Direction:** Read the information given below and answer the question that follows. (+1, -0.25)

Eight students M, N, O, P, Q, R, S and T are sitting in a horizontal row. Four students are facing north while four students are facing south. N sits second to the right of R and both face south direction. O sits third to the left of P and both face in the same direction. One student sits between O and S, who sits at one of the extreme ends. N is not adjacent to O. Q is not adjacent to O. T faces north and sits neither adjacent to S nor R. Neighbours of M face in the same direction but opposite to that of M.

How many students sit between S and P?

a. Four

b. Three

c. Five

d. Six

e. Two

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

There are seven persons namely, A, B, C, D, E, F, and G. They all are standing at a certain distance from each other.

B is 11 meters north of C. A is 12 meters to the west of B. D is 20 meters south of E. C is 20 meters west of D. G is 3 meters north of F, who is 27 meters to the west of E.

Person E is in which direction with respect to person B?

a. North

b. South

c. North-east

d. North-west

e. South-west

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

There are seven persons namely, A, B, C, D, E, F, and G. They all are standing at a certain distance from each other.

B is 11 meters north of C. A is 12 meters to the west of B. D is 20 meters south of E. C is 20 meters west of D. G is 3 meters north of F, who is 27 meters to the west of E.

Person G is in which direction with respect to C?

- a. South
- b. North-east
- c. North
- d. South-west
- e. North-west

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

There are seven persons namely, A, B, C, D, E, F, and G. They all are standing at a certain distance from each other.

B is 11 meters north of C. A is 12 meters to the west of B. D is 20 meters south of E. C is 20 meters west of D. G is 3 meters north of F, who is 27 meters to the west of E.

What is the shortest distance between person A and person G?

- a. 12 metres
- b. 13 metres
- c. $10\sqrt{2}$ metres
- d. 15 metres
- e. Cannot be determined

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

There are seven persons namely, A, B, C, D, E, F, and G. They all are standing at a certain distance from each other.

B is 11 meters north of C. A is 12 meters to the west of B. D is 20 meters south of E. C is 20 meters west of D. G is 3 meters north of F, who is 27 meters to the west of E.

Among the given pair of persons one is different from the others in a certain way. Choose the option of the pair which is different from the others.

- a. AG
- b. BE
- c. CE
- d. DG
- e. AF

75. If it is possible to make only one 4 letters meaningful word without repetition from the first, fourth, fifth, and the ninth letters of the word 'ABBREVIATE', which would be the second letter of the word? If more than one such word can be formed, give X as the answer. If no such word can be formed, give K as your answer. **(+1, -0.25)**

- a. A
- b. B
- c. E
- d. X
- e. K

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

There are six persons namely, A, B, C, D, E, and F. They all are sitting around a circular table facing the centre. They all have different ages.

B is second to the right of F. C sits opposite to B and is of 20 years of age. E is 56 years old and sits second to the left of C. The age of A is half the age of D. D does not sit near to E. The age of F is twice the age of C. The age of D is 28 years. The sum of ages of A and B is 32.

Who is sitting immediate to the left of B?

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

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

There are six persons namely, A, B, C, D, E, and F. They all are sitting around a circular table facing the centre. They all have different ages.

B is second to the right of F. C sits opposite to B and is of 20 years of age. E is 56 years old and sits second to the left of C. The age of A is half the age of D. D does not sit near to E. The age of F is twice the age of C. The age of D is 28 years. The sum of ages of A and B is 32.

What is the age of B?

- a. 26 years
- b. 22 years
- c. 24 years
- d. 16 years
- e. 18 years

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

There are six persons namely, A, B, C, D, E, and F. They all are sitting around a circular table facing the centre. They all have different ages.

B is second to the right of F. C sits opposite to B and is of 20 years of age. E is 56 years old and sits second to the left of C. The age of A is half the age of D. D does not sit near to E. The age of F is twice the age of C. The age of D is 28 years. The sum of ages of A and B is 32.

How many persons are sitting between A and E, when counted from the left of E?

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

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

There are six persons namely, A, B, C, D, E, and F. They all are sitting around a circular table facing the centre. They all have different ages.

B is second to the right of F. C sits opposite to B and is of 20 years of age. E is 56 years old and sits second to the left of C. The age of A is half the age of D. D does not sit near to E. The age of F is twice the age of C. The age of D is 28 years. The sum of ages of A and B is 32.

What is the sum of ages of A, D, and F?

- a. 62
- b. 82
- c. 74
- d. 86
- e. 92

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

There are six persons namely, A, B, C, D, E, and F. They all are sitting around a circular table facing the centre. They all have different ages.

B is second to the right of F. C sits opposite to B and is of 20 years of age. E is 56 years old and sits second to the left of C. The age of A is half the age of D. D does not sit near to E. The age of F is twice the age of C. The age of D is 28 years. The sum of ages of A and B is 32.

Which pair of name – age is incorrect?

- a. A – 14
- b. B – 18
- c. D – 28
- d. F – 40
- e. C – 22

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

Statements:

I. Only a few Comets are Stars.

II. No Star is Cloud.

III. All Clouds are Galaxies.

Conclusions:

I. Some Stars are Galaxies

II. No Star is Galaxy.

- a. Only conclusion I is true
- b. Only conclusion II is true
- c. Both conclusions I and II are true
- d. Either conclusion I or II is true
- e. Neither of the conclusions is true

82. **Direction:** In the following question below some statements are given followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusions logically follows the given statements. (+1, -0.25)

Statements:

All rooms are doors.

Only a few doors are villas.

Some houses are villas.

Conclusions:

I. Some rooms are villas.

II. All rooms being house is a possibility.

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

83. **Directions:** In the following question below some statements are given followed by some conclusions. Taking the given statements to be true even if they seem to be at (+1, -0.25)

variance from commonly known facts, read all the conclusions and then decide which of the given conclusions logically follows the given statements.

Statement:

All injection is medicine.

Only medicine is syrup.

No medicine is tablet.

Conclusion:

I. Some injection is syrup.

II. No injection is tablet.

- a. Only conclusion I follows
- b. Either conclusion I or II follows
- c. Only conclusion II follows
- d. Both conclusions I and II follow
- e. Neither conclusion I nor II follow

-
- 84. Direction:** In the question below are given three statements followed by three conclusions numbered I, II, and III. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding the commonly known facts. (+1, -0.25)

Statements:

Only a few birds are only a few tables.

Only a few tables are only a few chairs.

Conclusions:

- I. All birds can be table.
- II. Some birds are chairs.

- a. Only I follows
- b. Only II follows
- c. Either I or II follows
- d. Neither I nor II follows
- e. Both I and II follow

85. Nine boxes P, Q, R, S, T, U, V, W and X are kept one above the other but not necessarily in the same order. Four boxes are kept between P and Q. Q is kept below P. Two boxes are kept between T and X. V is kept above T but not immediately below R. Two boxes are kept between R and U. U is not kept below P. Box T is kept immediately above Q. X is kept immediately below S. (+1, -0.25)

Which among the following box is kept at the top?

- a. P
- b. V
- c. U
- d. W
- e. None of these

86. Nine boxes P, Q, R, S, T, U, V, W and X are kept one above the other but not necessarily in the same order. Four boxes are kept between P and Q. Q is kept below P. Two boxes are kept between T and X. V is kept above T but not immediately below R. Two boxes are kept between R and U. U is not kept below P. Box T is kept immediately above Q. X is kept immediately below S. (+1, -0.25)

What is true about the given arrangement?

- a. Box X is kept above T
- b. V is kept immediately below P.

- c. There are one box between Q and X
- d. Both 1) and 2)
- e. Both 2) and 3)

87. Nine boxes P, Q, R, S, T, U, V, W and X are kept one above the other but not necessarily in the same order. Four boxes are kept between P and Q. Q is kept below P. Two boxes are kept between T and X. V is kept above T but not immediately below R. Two boxes are kept between R and U. U is not kept below P. Box T is kept immediately above Q. X is kept immediately below S. (+1, -0.25)

Number of boxes above V is same as number of boxes below _____?

- a. Q
- b. T
- c. W
- d. R
- e. X

88. Nine boxes P, Q, R, S, T, U, V, W and X are kept one above the other but not necessarily in the same order. Four boxes are kept between P and Q. Q is kept below P. Two boxes are kept between T and X. V is kept above T but not immediately below R. Two boxes are kept between R and U. U is not kept below P. Box T is kept immediately above Q. X is kept immediately below S. (+1, -0.25)

Which of the following box is kept at the middle of the stack?

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

89. Nine boxes P, Q, R, S, T, U, V, W and X are kept one above the other but not necessarily in the same order. Four boxes are kept between P and Q. Q is kept below P. Two boxes are kept between T and X. V is kept above T but not immediately below R. Two boxes are kept between R and U. U is not kept below P. Box T is kept immediately above Q. X is kept immediately below S. (+1, -0.25)

Which of the following statement is not true about box W?

- a. One box is between W and V.
- b. More than two box is between W and U
- c. W is immediately below T
- d. Number of boxes above W is same as below it
- e. All the given statements are true

90. How many such pairs of letters are there in the word 'OBJECTION', each of which has as many letters between them in the word (both forward and backward direction) as they have between them in the English Alphabet? (+1, -0.25)

- a. Two
- b. Three
- c. Four
- d. Five
- e. More than five

91. **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: $A = F > D$; $A > C > E = B$

Conclusions:

I. $A > B$

II. $D < E$

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

92. **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: $Z \leq T = Y < X; E < W > F = G \leq Z$

Conclusions:

I. $Y \geq G$

II. $X > F$

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

93. **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: $Y \leq U \leq I; K \leq J > H = G \geq V = I$

Conclusions:

I. $H > Y$

II. $H = Y$

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

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

P, Q, R, S, T and U are six family members. P and Q are married couples. T is the sister of S. Q is the daughter-in-law of U, who is the grandmother of T's brother. S is the son of P, who is the brother of R.

What is the relation of Q with S?

- a. Brother
- b. Mother
- c. Uncle
- d. Aunt
- e. Father

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

P, Q, R, S, T and U are six family members. P and Q are married couples. T is the sister of S. Q is the daughter-in-law of U, who is the grandmother of T's brother. S is the son of P, who is the brother of R.

How is R related to T?

- a. Mother
- b. Father
- c. Sister
- d. Brother
- e. Cannot be determined

96. Six persons A, B, C, D, E and F live on three floors of a building 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 3. Each floor consist of two flats namely flat – P and flat – Q such that flat – P is west of flat – Q. Flat – P of second floor is exactly above flat – P of first floor and exactly below the flat – P if third floor, other flats are placed in the same way. Each person likes different color namely Red, Blue, Yellow, White, Black and Orange. (+1, -0.25)

Only one floor is between the one who like Red color and the one who like Blue color and both having same flat name. A lives on the even numbered floor and he lives in north west of the flat in which D lives. One who likes white color lives east of C. D neither likes Red nor Blue. B lives above F. E likes black color and lives immediately above the one who like Orange color in the same flat. F does not like Red Color. B and the one who likes Yellow color is having different flat name.

A lives on which of the following floor and flat?

- a. Floor -1, Flat – P
- b. Floor -2, Flat – P
- c. Floor -2, Flat – Q
- d. Floor -3, Flat – P
- e. Floor -3, Flat – Q

97. Six persons A, B, C, D, E and F live on three floors of a building 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 3. Each floor consist of two flats namely flat – P (+1, -0.25)

and flat – Q such that flat – P is west of flat – Q. Flat – P of second floor is exactly above flat – P of first floor and exactly below the flat – P of third floor, other flats are placed in the same way. Each person likes different color namely Red, Blue, Yellow, White, Black and Orange.

Only one floor is between the one who like Red color and the one who like Blue color and both having same flat name. A lives on the even numbered floor and he lives in north west of the flat in which D lives. One who likes white color lives east of C. D neither likes Red nor Blue. B lives above F. E likes black color and lives immediately above the one who like Orange color in the same flat. F does not like Red Color. B and the one who likes Yellow color is having different flat name.

B likes which of the following color?

- a. White
- b. Blue
- c. Red
- d. Black
- e. Orange

98. Six persons A, B, C, D, E and F live on three floors of a building 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 3. Each floor consist of two flats namely flat – P and flat – Q such that flat – P is west of flat – Q. Flat – P of second floor is exactly above flat – P of first floor and exactly below the flat – P of third floor, other flats are placed in the same way. Each person likes different color namely Red, Blue, Yellow, White, Black and Orange. (+1, -0.25)

Only one floor is between the one who like Red color and the one who like Blue color and both having same flat name. A lives on the even numbered floor and he lives in north west of the flat in which D lives. One who likes white color lives east of C. D neither likes Red nor Blue. B lives above F. E likes black color and lives immediately above the one who like Orange color in the same flat. F does not like Red Color. B and the one who likes Yellow color is having different flat name.

Who among the following lives in flat Q?

- a. B
- b. C
- c. D
- d. Both B and C
- e. Both B and D

99. Six persons A, B, C, D, E and F live on three floors of a building 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 3. Each floor consist of two flats namely flat – P and flat – Q such that flat – P is west of flat – Q. Flat – P of second floor is exactly above flat – P of first floor and exactly below the flat – P if third floor, other flats are placed in the same way. Each person likes different color namely Red, Blue, Yellow, White, Black and Orange. (+1, -0.25)

Only one floor is between the one who like Red color and the one who like Blue color and both having same flat name. A lives on the even numbered floor and he lives in north west of the flat in which D lives. One who likes white color lives east of C. D neither likes Red nor Blue. B lives above F. E likes black color and lives immediately above the one who like Orange color in the same flat. F does not like Red Color. B and the one who likes Yellow color is having different flat name.

Who among the following lives on floor 2?

- a. C, E
- b. A, D
- c. A, E
- d. C, D
- e. None of the given option

100. Six persons A, B, C, D, E and F live on three floors of a building 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 3. Each floor consist of two flats namely flat – P (+1, -0.25)

and flat – Q such that flat – P is west of flat – Q. Flat – P of second floor is exactly above flat – P of first floor and exactly below the flat – P if third floor, other flats are placed in the same way. Each person likes different color namely Red, Blue, Yellow, White, Black and Orange.

Only one floor is between the one who like Red color and the one who like Blue color and both having same flat name. A lives on the even numbered floor and he lives in north west of the flat in which D lives. One who likes white color lives east of C. D neither likes Red nor Blue. B lives above F. E likes black color and lives immediately above the one who like Orange color in the same flat. F does not like Red Color. B and the one who likes Yellow color is having different flat name.

Blue color is liked by who?

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

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Answers

1. Answer: d

Explanation:

The correct answer is **option 4- Artificial Intelligence**

★ Key Points

The passage does not focus on human beings and their problems. The passage neither talks in detail about how AI works, nor it draws any comparison between technology used in the past and technology we use nowadays. The passage gives us a basic idea about AI. Hence, option 4 would be the most apt title in this case.

2. Answer: e

Explanation:

The correct answer is **option 5- 1, 2 and 4.**

★ Key Points

The answer to this question can be found in the lines- " The purpose of Artificial Intelligence(AI) is to aid human capabilities and help us make advanced decisions with far-reaching consequences." and "Currently, the purpose of Artificial Intelligence is shared by all the different tools and techniques that we've invented over the past thousand years – to simplify human effort, and to help us make better decisions."

★ Additional Information

Option 3 has not been mentioned in the passage. It cannot be inferred.

3. Answer: c

Explanation:

The correct answer is **option 3- Artificial Intelligence.**

★ Key Points

It has been clearly mentioned in the passage- "Artificial Intelligence has also been touted as our Final Invention, a creation that would invent ground-breaking tools and services that would exponentially change how we lead our lives, by hopefully removing strife, inequality, and human suffering."

4. Answer: d

Explanation:

The correct answer is **option 4**.

★ Key Points

It has been clearly mentioned in the passage - "Modern intelligent systems can be built by following the different approaches of philosophy that will enable these systems to make the right decisions, mirroring the way that an ideal human being would think and behave."

5. Answer: e

Explanation:

The correct answer is **option 5- Concurrence**.

★ Key Points

Strife: angry or bitter disagreement over fundamental issues; conflict

Concurrence : agreement or consistency

★ Additional Information

The meaning of the other words-

Dissent, schism, discord, and conflict are all synonyms or near-synonyms of strife.

6. Answer: a

Explanation:

The correct answer is **option 1- Function**.

★ Key Points

Behave: act or conduct oneself in a specified way, especially towards others; carry oneself

Function: work or act in a proper or particular way

★ Additional Information

The meaning of the other words-

- **Control:** the power to influence or direct people's behaviour or the course of events
- **Modulate:** vary the strength, tone, or pitch of (one's voice)
- **Misbehave:** (of a person, especially a child) fail to conduct oneself in an acceptable way; behave badly

7. Answer: c

Explanation:

The correct answer is **option 3**.

★ Key Points

It is clearly stated in the passage - "As all technology that has come before this, the research and development costs need to be subsidized by corporations and government agencies before it becomes accessible to everyday laymen."

8. Answer: a

Explanation:

The correct answer is **option 1- Alliance**.

★ Key Points

Synergy: the interaction or cooperation of two or more organizations, substances, or other agents to produce a combined effect greater than the sum of their separate effects

Alliance : a union or association formed for mutual benefit, especially between countries or organizations

Thus we can see that Synergy and Alliance are synonyms.

★ Additional Information

The meaning of the other words-

- **Divorce** : a separation between things which were or ought to be connected
- **Catapult** : a forked stick with an elastic band fastened to the two prongs, used by children for shooting small stones
- **Clandestine** : kept secret or done secretly, especially because illicit
- **Energy** : the strength and vitality required for sustained physical or mental activity

9. Answer: c

Explanation:

The correct answer is **option 3- Transformations**.



Key-Points

Transformation: marked changes in form, nature, or appearance



Additional Information

The meaning of the other words-

- **Concise** : giving a lot of information clearly and in a few words; brief but comprehensive
- **Trials** : tests of the performance, qualities, or suitability of someone or something
- **Embargo** : an official ban on trade or other commercial activity with a particular country
- **Headway** : forward movement or progress, especially when this is slow or difficult

★ Important Point

We always undergo 'changes' or 'transformations'.

10. Answer: c

Explanation:

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



Key-Points

Prediction : a statement about what you think will happen in the future; forecast



Additional Information

The meaning of the other words-

- **Hope** : a feeling of expectation and desire for a particular thing to happen
- **Support** : bear all or part of the weight of; hold up
- **Anthology** : a published collection of poems or other pieces of writing.
- **Animosity** : strong hostility

★ **Important Points**

From the word 'forecast' following blank (2), we get a hint that the blank (2) must contain a word which means 'forecast'.

11. Answer: a

Explanation:

The correct answer is **option 1- Implementing**



Key-Points

Implementing : putting (a decision, plan, agreement, etc.) into effect



Additional Information

The meaning of the other words-

- **Ridiculing** : subjecting to contemptuous and dismissive language or behaviour

- **Respecting**: admiring (someone or something) deeply, as a result of their abilities, qualities, or achievements
- **Ignoring**: refusing to take notice; disregarding intentionally
- **Thinking**: directing one's mind towards someone or something; using one's mind actively to form connected ideas



Important Point

We always 'use', 'test', or 'implement' new technologies.

12. Answer: b

Explanation:

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

★ Key Points

Rapid: happening in a short time or at a great rate.

★ Additional Information

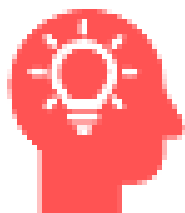
The meaning of the other words-

Unnerving: causing one to lose courage or confidence; disconcerting

Slow: moving or operating, or designed to do so, only at a low speed; not quick or fast

Agile: able to move quickly and easily

Subjective: based on or influenced by personal feelings, tastes, or opinions



Confusion Points

Although 'agile' and 'rapid' are both adjectives, we do not use 'agile' with the noun 'rate'.

13. Answer: d

Explanation:

The correct answer is **option 4- Restrictions**



Key-Points

Restrictions: limiting conditions or measures, especially legal ones

The meaning of the other words-

- **Organizations:** organized groups of people with a particular purpose, such as businesses or government departments
- **Feedbacks:** information about reactions to a product, a person's performance of a task, etc. which is used as a basis for improvement
- **Allowances:** amounts of something that is permitted, especially within a set of regulations or for a specified purpose
- **Data:** facts and statistics collected together for reference or analysis



Important Point
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We can infer from the overall scenario depicted in the passage that the trade and commerce industry is undergoing severe problems and 'restrictions' fits best with the overall theme of 'trade wars' and escalating 'global tensions'

14. Answer: b

Explanation:

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

★ Key Points

Affect: have an effect on; make a difference to

★ Additional Information

The meaning of the other words-

- **Effect** : a change which is a result or consequence of an action or other cause
- **Adhere** : stick fast to (a surface or substance)
- **Procrastinate** : delay or postpone action; put off doing something
- **Feel** : be aware of (a person or object) through touching or being touched

15. **Answer: b**

Explanation:

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

★ Key Points

Recession : a period of temporary economic decline during which trade and industrial activity are reduced, generally identified by a fall in GDP in two successive quarters.

The meaning of the other words-

- **Inflation** : In economics , inflation or price inflation is a general rise in price level relative to available goods resulting in a substantial and continuing drop in purchasing power in an economy over a period of time
- **Stagnancy** : inactivity; being stagnant; standing still; without current or circulation. stagnation. inaction, inactiveness, inactivity - the state of being inactive.
- **Diversification** : the action of diversifying something or the fact of becoming more diverse.
- **Destruction** : the action or process of causing so much damage to something that it no longer exists or cannot be repaired.

★ Important Points

The context is of the slowdown of economy and from there we can infer that the blank will contain 'recession'

16. **Answer: c**

Explanation:

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

★ Key Points

Difficult : needing much effort or skill to accomplish, deal with, or understand.

★ Additional Information

The meaning of the other words-

- **Strange** : unusual or surprising; difficult to understand or explain
- **Horrible** : causing or likely to cause horror; shocking.
- **Smooth** : having an even and regular surface; free from perceptible projections, lumps, or indentations

★ Important Points

- From the concept of recession discussed in the question above, it becomes pretty clear that the situation becomes pretty difficult for everyone involved.

17. Answer: c

Explanation:

The correct answer is **option 3.**

★ Key Points

The error is in the adverb usage in the third part of the sentence.

'Very' is used when it comes to sentences with adjectives, in this sentence, the adjective is 'late' and so 'very' should be used to make the sentence meaningful. It is used to emphasize and qualify the adjective 'late'.

18. Answer: a

Explanation:

option 1 is the correct answer.

★ Key Points

- '**Less**' means "**not as much**". We use 'less' with **uncountable nouns** like 'milk'. (denoting **quantity**).
- '**Few**' means "**not as many**". We use 'few' with **countable nouns** like 'biscuits'. (denoting **number**)
- Example sentences:
 - **Few biscuits** are lying on the table.
 - Could you give me **less milk** next time?
- Thus, '**few**' will **replace** '**less**' as people is a countable noun.
- Correct Usage: **Few** people have ever had the courage to ride an angry bull let alone a matador.

19. Answer: c

Explanation:

The correct answer is **option 3**.

★ Key Points

The usage of 'inspite of' is incorrect here. The correct phrasal conjunction that should be used is 'in spite of' where 'in' and 'spite' are separate words. However, we may also replace 'inspite of' with 'despite' to make the sentence correct.

20. Answer: c

Explanation:

The correct answer is **option 3**.

★ Key Points

The error is in the use of preposition of the sentence. The prepositional phrase 'on his new address' needs to be replaced with 'to his new address' as the prepositions 'on' 'at' and 'in' are

used to indicate position or time whereas 'to' is used to indicate direction.

21. Answer: b

Explanation:

The correct answer is **option 2**.

★ Key Points

- Here, the noun **judge** and the noun **jury** is connected by '**and**'
- When two nouns (jury and judge) are connected by the conjunction 'and', the following verb (has) should be in its **plural form** (have).
- Thus **the correct sentence is** - 'Both the jury and the judge have come to the same conclusion regarding this case.'

22. Answer: c

Explanation:

The correct answer is **option 3), i.e., C**

★ Key Points

- **The FIRST sentence is C** as it introduces the speaker through the perspective of whom the rest of the narrative is being revealed. It also introduces the other character that is in the story.
- The **SECOND sentence is E** as it perfectly follows Statement 'C' ; the first reaction of the speaker after realizing from a distance that he/she was late was that of embarrassment.
- The **THIRD sentence is A** as it was only when the speaker was close enough that he/she was able to see what the other character was like. The first thing being described is what the other person was wearing; as we tend to notice the clothes of a person first, his/her physical appearance later.
- D, which is the **FOURTH sentence** is a continuation of 'A' , and it further describes the other person (what he was doing and all that was kept in his surrounding) now that the speaker was closer to him/her.
- Statement B comes **LAST**, as only now the speaker noticed the other person's expressions and also focussed more on his actions rather than his/her appearance, thereby concluding

the passage. Also, 'I found soon enough' shows that the speaker had spent a considerable amount of time with that person before making the final statement.

- Thus, the correct sequence is CEADB.
- *The first sentence is C.*

★ Additional Information

Forbidding: unfriendly or threatening in appearance.

Stoicism: the endurance of pain or hardship without the display of feelings and without complaint.

Manuscript: a book, document, or piece of music written by hand rather than typed or printed.

Perturbed: make (someone) anxious or unsettled.

23. Answer: e

Explanation:

The correct answer is **option 5), i.e., E**

★ Key Points

- **The FIRST sentence is C** as it introduces the speaker through the perspective of whom the rest of the narrative is being revealed. It also introduces the other character that is in the story.
- The SECOND sentence is E as it perfectly follows Statement 'C' ; the first reaction of the speaker after realizing from a distance that he/she was late was that of embarrassment.
- The THIRD sentence is A as it was only when the speaker was close enough that he/she was able to see what the other character was like. The first thing being described is what the other person was wearing; as we tend to notice the clothes of a person first, his/her physical appearance later.
- D, which is the FOURTH sentence is a continuation of 'A' , and it further describes the other person (what he was doing and all that was kept in his surrounding) now that the speaker was closer to him/her.
- Statement B comes LAST, as only now the speaker noticed the other person's expressions and also focussed more on his actions rather than his/her appearance, and concludes the passage.
- Also, 'I found soon enough' shows that the speaker had spent a considerable amount of time with that person before making the final statement.
- Thus, the correct sequence is CEADB.

- *The second sentence is E.*

★ Additional Information

Forbidding: unfriendly or threatening in appearance.

Stoicism: the endurance of pain or hardship without the display of feelings and without complaint.

Manuscript: a book, document, or piece of music written by hand rather than typed or printed.

Perturbed: make (someone) anxious or unsettled.

24. Answer: a

Explanation:

The correct answer is **option 1), i.e., A**

★ Key Points

- **The FIRST sentence is C** as it introduces the speaker through the perspective of whom the rest of the narrative is being revealed. It also introduces the other character that is in the story.
- The SECOND sentence is E as it perfectly follows Statement 'C'; the first reaction of the speaker after realizing from a distance that he/she was late was that of embarrassment.
- The THIRD sentence is A as it was only when the speaker was close enough that he/she was able to see what the other character was like. The first thing being described is what the other person was wearing; as we tend to notice the clothes of a person first, his/her physical appearance later.
- D, which is the FOURTH sentence is a continuation of 'A', and it further describes the other person (what he was doing and all that was kept in his surrounding) now that the speaker was closer to him/her.
- Statement B comes LAST, as only now the speaker noticed the other person's expressions and also focussed more on his actions rather than his/her appearance, thereby concluding the passage. Also, 'I found soon enough' shows that the speaker had spent a considerable amount of time with that person before making the final statement.
- Thus, the correct sequence is CEADB.

The third sentence is A.

★ Additional Information

Forbidding: unfriendly or threatening in appearance.

Stoicism: the endurance of pain or hardship without the display of feelings and without complaint.

Manuscript: a book, document, or piece of music written by hand rather than typed or printed.

Perturbed: make (someone) anxious or unsettled.

25. Answer: d

Explanation:

The correct answer is **option 4), i.e., D**

★ Key Points

- **The FIRST sentence is C** as it introduces the speaker through the perspective of whom the rest of the narrative is being revealed. It also introduces the other character that is in the story.
- The SECOND sentence is E as it perfectly follows Statement 'C'; the first reaction of the speaker after realizing from a distance that he/she was late was that of embarrassment.
- The THIRD sentence is A as it was only when the speaker was close enough that he/she was able to see what the other character was like. The first thing being described is what the other person was wearing; as we tend to notice the clothes of a person first, his/her physical appearance later.
- D, which is the FOURTH sentence is a continuation of 'A', and it further describes the other person (what he was doing and all that was kept in his surrounding) now that the speaker was closer to him/her.
- Statement B comes LAST, as only now the speaker noticed the other person's expressions and also focussed more on his actions rather than his/her appearance, thereby concluding the passage. Also, 'I found soon enough' shows that the speaker had spent a considerable amount of time with that person before making the final statement.
- Thus, the correct sequence is CEADB.
- *The fourth sentence is D.*

★ Additional Information

Forbidding: unfriendly or threatening in appearance.

Stoicism: the endurance of pain or hardship without the display of feelings and without complaint.

Manuscript: a book, document, or piece of music written by hand rather than typed or printed.
Perturbed: make (someone) anxious or unsettled.

26. Answer: b

Explanation:

The correct answer is **option 2), i.e., B**

★ Key Points

- The **FIRST sentence is C** as it introduces the speaker through the perspective of whom the rest of the narrative is being revealed. It also introduces the other character that is in the story.
- The **SECOND sentence is E** as it perfectly follows Statement 'C'; the first reaction of the speaker after realizing from a distance that he/she was late was that of embarrassment.
- The **THIRD sentence is A** as it was only when the speaker was close enough that he/she was able to see what the other character was like. The first thing being described is what the other person was wearing; as we tend to notice the clothes of a person first, his/her physical appearance later.
- D, which is the **FOURTH sentence** is a continuation of 'A', and it further describes the other person (what he was doing and all that was kept in his surrounding) now that the speaker was closer to him/her.
- Statement B comes **LAST**, as only now the speaker noticed the other person's expressions and also focussed more on his actions rather than his/her appearance, thereby concluding the passage. Also, 'I found soon enough' shows that the speaker had spent a considerable amount of time with that person before making the final statement.
- Thus, the correct sequence is CEADB.
- *The fifth sentence is B.*

★ Additional Information

Forbidding: unfriendly or threatening in appearance.

Stoicism: the endurance of pain or hardship without the display of feelings and without complaint.

Manuscript: a book, document, or piece of music written by hand rather than typed or printed.

Perturbed: make (someone) anxious or unsettled.

27. Answer: d

Explanation:

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



Explanation:

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

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

- Reputation: *the beliefs or opinions that are generally held about someone or something. It may be good or bad.*
- Post: a job in a company or organization
- Monarchy: a ruling system that involves a King and/or a Queen; kingship
- Throne: a ceremonial chair for a sovereign, bishop, or similar figure
- Honour: *high respect; great esteem*

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

28. Answer: c

Explanation:

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

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Explanation:

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

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

- Benign: *Refers to a disease that is not harmful*
- Malignant: A disease that is very harmful and infectious
- Spreading: Extending over a large area
- Harmless: *Not able or likely to cause harm*

- Painful: Something that causes a lot of pain and discomfort

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

29. Answer: b

Explanation:

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



Explanation:

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

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

- Committed: *dedicated oneself to a certain cause or purpose.*
- Brokered: arrange or negotiate (an agreement).
- Pledged: *solemnly undertook to do something.*
- Penetrated: went through something, especially through force.
- Seemed: gave the impression of being something or having a particular quality.

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

30. Answer: b

Explanation:

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

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Explanation:

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

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

- Gracious: *courteous, kind, and pleasant*
- Insolent: showing a rude and arrogant lack of respect
- Courteous: *polite, respectful, or considerate in manner*

- Arrogant: *having or revealing an exaggerated sense of one's own importance or abilities; self-important*
- Disrespectful: showing a lack of respect or courtesy; impolite

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

31. Answer: d

Explanation:

The series follows the following pattern

$$5040 \div 7 = 720$$

$$720 \div 6 = 120$$

$$120 \div 5 = \mathbf{24}$$

$$24 \div 4 = 6$$

$$6 \div 3 = 2$$

$\therefore$ The wrong number is 60

32. Answer: b

Explanation:

The series follows the following pattern

$$1 + 2^2 = 5$$

$$5 + 3^3 = 32$$

$$32 + 4^2 = 48$$

$$48 + 5^3 = 173$$

$\therefore$ The wrong number is 8

33. Answer: e

Explanation:

The series follows the following pattern

$$4 \times 1 + 1 = 5$$

$$5 \times 2 + 1 = 11$$

$$11 \times 3 + 1 = 34$$

$$34 \times 4 + 1 = 137$$

$$137 \times 5 + 1 = 686$$

$\therefore$ The wrong number is 684

34. Answer: b

Explanation:

The series follows the following pattern

$$72 - 64 = 8$$

$$8 + 32 = 40$$

$$40 - 16 = 24$$

$$24 + 8 = 32$$

$$32 - 4 = 28$$

$\therefore$ The wrong number is 20

★ Alternate Method

$$72 \quad 20 \quad 40 \quad 24 \quad 32 \quad 28$$

$$-64 \quad +32 \quad -16 \quad +8 \quad -4$$

$\therefore$ The wrong number is 20

35. Answer: d

Explanation:

The series follows the following pattern

$$40 - 5 = 35$$

$$35 + 10 = 45$$

$$45 - 15 = 30$$

$$30 + 20 = 50$$

$$50 - 25 = 25$$

$\therefore$ The wrong number is 20

36. Answer: b

Explanation:

Given:

A is 40% more efficient than B

Total time is taken by A and B to complete the work together = $9\frac{3}{8}$ days

A works for first five days alone and the remaining work completed by B

Concept used:

Efficiency = Total work/Time

Calculations:

Let the efficiency of B be 100

So, Efficiency of A = $100 \times 140/100 = 140$

Ratio of A and B's efficiency = $140 : 100 = 7 : 5$

Total Efficiency of A and B = $7 + 5 = 12$

Work done by A and B together in $9\frac{3}{8}$ days = $12 \times 75/8 = 225/2$

Work done by A in first five days = $7 \times 5 = 35$

Remaining Work = $(225/2) - 35 = 155/2$

Time taken by B to complete the remaining work = $(155/2) \div 5$

$\Rightarrow 31/2$

Total time taken by A and B to finish the work = $5 + 31/2$

$\Rightarrow 41/2 = 20\frac{1}{2}$ days

$\therefore$ Total time taken by A and B is $20\frac{1}{2}$ days

37. Answer: d

Explanation:

Let the length of train be x

Then, the length of platform is also x

Speed of train = $54 \text{ km/hr} = 54 \times (5/18) \text{ m/s} = 15 \text{ m/s}$

$\therefore$ According to question

$(x + x)/15 = 36$

$\Rightarrow 2x = 540$

$\Rightarrow x = 270 \text{ m}$

The length of the platform is 270 m

Now, a train of length 230 m crosses the platform in 25 sec

Let the speed of train be $v \text{ m/s}$

$\Rightarrow (270 + 230)/v = 25$

$\Rightarrow v = 20 \text{ m/s}$

Speed of train = $20 \text{ m/s} = 20 \times (18/5) = 72 \text{ km/hr}$

∴ The speed of the train is 72 km/hr

38. Answer: b

Explanation:

A person gets 60% more amount after 8 years

Let Principal Amount be P

$$\Rightarrow \text{Amount} = (160/100)P$$

Simple Interest = Amount - Principal

$$\Rightarrow \text{Simple Interest} = (160/100)P - P = 60P/100$$

$$\text{Simple Interest} = (P \times R \times T)/100$$

P → Principal

R → Rate

T → Time

$$\Rightarrow (60P/100) = (P \times R \times 8)/100$$

$$\Rightarrow R = 60/8 = 15/2 = 7.5$$

He invests Rs.9600

∴ Simple Interest after 4 years

$$\Rightarrow \text{SI} = (9600 \times 7.5 \times 4)/100$$

$$\Rightarrow \text{SI} = 2880$$

∴ Simple Interest received by the man is Rs.2880

39. Answer: d

Explanation:

Calculation:

Average percentage of book sold by B and D together = $(18 + 22)/2 = 20\%$

Percentage of book sold by A = 20%

$\therefore$ Required ratio = 1 : 1

40. Answer: c

Explanation:

Calculation:

Average percentage of book sold by B and E together = $(22 + 26)/2 = 24\%$

Average percentage of book sold by C and D together = $(18 + 14)/2 = 16\%$

Percentage difference = $24 - 16 = 8\%$

$\therefore$ Required difference = 8% of 750 = 60

41. Answer: b

Explanation:

Calculation:

Percentage of book sold by A on Monday = $20\% \times 750 = 150$

Book sold on Tuesday = $150 \times 115/100 = 172.5$

Percentage of book sold by D on Monday = $18\% \times 750 = 135$

$\therefore$ Required percentage = $(172.5 - 135) \times 100/135 = 27.78\%$

42. Answer: e

Explanation:

Calculation:

Percentage of books sold by D and E together = 44%

Percentage of book sold by B and D together = 40%

$\therefore$ Ratio of angle made on pie chart = $(44 \times 360/100) : (40 \times 360/100) = 11 : 10$

43. Answer: a

Explanation:

Calculation:

Percentage of books sold on Monday by B = 22%

So book sold by B = 22% of 750 = 165

$\therefore$ Book sold by F = $165 \times 120/100 = 165 \times 6/5 = 198$

44. Answer: b

Explanation:

Calculation:

Book sold on Tuesday = 166.67% of 750 = $5 \times 750/3 = 1250$

Difference between Book sold by C and Book sold by E on Tuesday = $(26 - 14)\%$ of 1250 = 150

45. Answer: d

Explanation:

Ratio of age of A and B four years ago was 3 : 4

Let the age of A and B four years ago be $3x$ and $4x$ respectively

$\therefore$ Present age of A = $3x + 4$

Present age of B = $4x + 4$

C is 11 years younger than B

Present age of C = $4x - 7$

Average age of A, B and C is 26 years

$\therefore$ Sum of ages of A, B and C = $26 \times 3 = 78$

$\Rightarrow (3x + 4) + (4x + 4) + (4x - 7) = 78$

$\Rightarrow 11x + 1 = 78$

$\Rightarrow x = 7$

Present age of B = $4x + 4 = (4 \times 7) + 4 = 32$

$\therefore$ Present age of B is 32 years

46. Answer: a

Explanation:

Let the salary of man be x

He deposit 10% in PF

Remaining = $x - (10x/100) = 90x/100$

He saves 30% of remaining

Savings of man = $(30/100) \times (90x/100) = 27x/100$

Expenses of the man = $(90x/100) - (27x/100) = 63x/100$ -----(i)

The ratio of expenses of medicine and groceries is 3 : 4 and the expense of medicine is Rs.2700

$\Rightarrow 3 \text{ units} = 2700$

$\Rightarrow 1 \text{ unit} = 900$

$\Rightarrow 4 \text{ unit} = 3600$

Total Expense = $2700 + 3600 = 6300$ -----(ii)

Equating (i) and (ii)

$$\Rightarrow 63x/100 = 6300$$

$$\Rightarrow x = 10,000$$

$\therefore$ Monthly salary of the man is Rs.10,000

47. Answer: c

Explanation:

Percentage of milk in the mixture = 60%

$\therefore$ Quantity of milk in 80 gm mixture

$$\Rightarrow \text{Quantity of milk} = (60/100) \times 80$$

$$\Rightarrow \text{Quantity of milk} = 48 \text{ gm}$$

$$\text{Quantity of water in the mixture} = 80 - 48 = 32 \text{ gm}$$

Now, 20 gm of mixture is removed and 6 gm of water is added

$$\therefore \text{Quantity of milk in mixture} = 48 - (20 \times 48/80) = 48 - 12 = 36$$

$$\text{Quantity of water in mixture} = 32 - (20 \times 32/80) + 6 = 38 - 8 = 30$$

Ratio of milk and water in the new mixture

$$\Rightarrow \text{Ratio} = 36/30 = 6/5 = 6 : 5$$

$\therefore$ Ratio of milk and water in the new mixture is 6 : 5

48. Answer: d

Explanation:

Equation I.

$$x^2 - 26x + 168 = 0$$

$$\Rightarrow x^2 - 12x - 14x + 168 = 0$$

$$\Rightarrow x(x - 12) - 14(x - 12) = 0$$

$$\Rightarrow (x - 12)(x - 14) = 0$$

$$\Rightarrow x - 12 = 0 \text{ or } x - 14 = 0$$

$$\Rightarrow x = 12 \text{ or } x = 14$$

Equation II.

$$y^2 - 32y + 252 = 0$$

$$\Rightarrow y^2 - 18y - 14y + 252 = 0$$

$$\Rightarrow y(y - 18) - 14(y - 18) = 0$$

$$\Rightarrow (y - 14)(y - 18) = 0$$

$$\Rightarrow y - 14 = 0 \text{ or } y - 18 = 0$$

$$\Rightarrow y = 14 \text{ or } y = 18$$

Value of x	Value of y	Relation
12	14	$x < y$
12	18	$x < y$
14	14	$x = y$
14	18	$x < y$

$$\therefore x \leq y$$

49. Answer: a

Explanation:

Equation I.

$$3x^2 - 11x + 10 = 0$$

$$\Rightarrow 3x^2 - 5x - 6x + 10 = 0$$

$$\Rightarrow x(3x - 5) - 2(3x - 5) = 0$$

$$\Rightarrow (x - 2)(3x - 5) = 0$$

$$\Rightarrow x - 2 = 0 \text{ or } 3x - 5 = 0$$

$$\Rightarrow x = 2 \text{ or } x = 5/3$$

Equation II.

$$4y^2 + 24y + 35 = 0$$

$$\Rightarrow 4y^2 + 14y + 10y + 35 = 0$$

$$\Rightarrow 2y(2y + 7) + 5(2y + 7) = 0$$

$$\Rightarrow (2y + 5)(2y + 7) = 0$$

$$\Rightarrow 2y + 5 = 0 \text{ or } 2y + 7 = 0$$

$$\Rightarrow y = -5/2 \text{ or } y = -7/2$$

Value of x	Value of y	Relation
2	-5/2	$x > y$
2	-7/2	$x > y$
5/3	-5/2	$x > y$
5/3	-7/2	$x > y$

$$\therefore x > y$$

50. Answer: d

Explanation:

Equation I.

$$x^2 - 20x + 91 = 0$$

$$\Rightarrow x^2 - 13x - 7x + 91 = 0$$

$$\Rightarrow x(x - 13) - 7(x - 13) = 0$$

$$\Rightarrow (x - 7)(x - 13) = 0$$

$$\Rightarrow x - 7 = 0 \text{ or } x - 13 = 0$$

$$\Rightarrow x = 7 \text{ or } x = 13$$

Equation II.

$$y^2 - 34y + 273 = 0$$

$$\Rightarrow y^2 - 21y - 13y + 273 = 0$$

$$\Rightarrow y(y - 21) - 13(y - 21) = 0$$

$$\Rightarrow (y - 21)(y - 13) = 0$$

$$\Rightarrow y - 21 = 0 \text{ or } y - 13 = 0$$

$$\Rightarrow y = 21 \text{ or } y = 13$$

Value of x	Value of y	Relation
7	13	$x < y$
7	21	$x < y$
13	13	$x = y$
13	21	$x < y$

$$\therefore x \leq y$$

51. Answer: a

Explanation:

Equation I.

$$2x^2 - 14x + 24 = 0$$

$$\Rightarrow 2x^2 - 8x - 6x + 24 = 0$$

$$\Rightarrow 2x(x - 4) - 6(x - 4) = 0$$

$$\Rightarrow (2x - 6)(x - 4) = 0$$

$$\Rightarrow 2x - 6 = 0 \text{ or } x - 4 = 0$$

$$\Rightarrow x = 3 \text{ or } x = 4$$

Equation II.

$$y^2 + 30y + 224 = 0$$

$$\Rightarrow y^2 + 14y + 16y + 224 = 0$$

$$\Rightarrow y(y + 14) + 16(y + 14) = 0$$

$$\Rightarrow (y + 14)(y + 16) = 0$$

$$\Rightarrow y + 14 = 0 \text{ or } y + 16 = 0$$

$$\Rightarrow y = -14 \text{ or } y = -16$$

Value of x	Value of y	Relation
3	-14	$x > y$
3	-16	$x > y$
4	-14	$x > y$
4	-16	$x > y$

$$\therefore x > y$$

52. Answer: b

Explanation:

Equation I.

$$(x - 13)^2 = 0$$

$$\Rightarrow x - 13 = 0$$

$$\Rightarrow x = 13$$

Equation II.

$$y^2 = 169$$

$$\Rightarrow y = \sqrt{169}$$

$$\Rightarrow y = 13 \text{ or } -13$$

Value of x	Value of y	Relation
13	13	$x = y$
13	-13	$x > y$

$$\therefore x \geq y$$

53. Answer: b

Explanation:

A sphere is melted and molded into solid cylinder.

Formula Used :

$$\text{volume of sphere} = \frac{4}{3} \times \frac{22}{7} \times r^3;$$

$$\text{total surface area of sphere} = 4 \times \frac{22}{7} \times r^2; \text{ where } r = \text{radius of sphere}$$

$$\text{volume of cylinder} = \frac{22}{7} \times R^2 \times h$$

$$\text{total surface area of cylinder} = 2 \times \frac{22}{7} \times R(R + h); \text{ where } R = \text{radius of cylinder, } h = \text{height of cylinder}$$

Calculation :

Given radius of both solids are equal i.e. $R = r$

Since sphere is melted into cylinder i.e. volume remains same

$$\Rightarrow \frac{4}{3} \times \frac{22}{7} \times r^3 = \frac{22}{7} \times R^2 \times h$$

$$\Rightarrow h = \frac{4r}{3}$$

$$\Rightarrow \text{required ratio} = (4 \times \frac{22}{7} \times r^2) : (2 \times \frac{22}{7} \times R(R + h)) = 2 \times 3 : 7$$

$$\Rightarrow \text{required ratio} = 6 : 7$$

54. Answer: e

Explanation:

Given :

Three partners P, Q and R invested their amounts in ratio 2 : 5 : 7. At the end of six months P added some more amount such that his investment becomes equal to half of the sum of initial investment of 'Q' and 'R' and at the end of the year, Q's share in profit is Rs 425.

Concept Used :

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

Calculation :

Let the amount invested by P, Q and R be $2x$, $5x$ and $7x$ respectively and total profit be 'P'

$$\Rightarrow \text{ratio of profit} = 2x \times 6 + 6x \times 6 : 5x \times 12 : 7x \times 12$$

$$\Rightarrow \text{ratio of profit} = 4 : 5 : 7$$

$$\Rightarrow \text{Q's share in profit} = \frac{5}{16} \times P = 425$$

$$\Rightarrow P = \text{Rs. } 1360$$

$$\therefore \text{required total profit} = \text{Rs. } 1360$$

Your Personal Exams Guide

55. Answer: a

Explanation:

Given :

The shopkeepers mark up the price of LED, 60% above its cost price and give three successive discounts of 12.5%, $d\%$ and 25%.

Formula Used :

$$\text{loss\%} = (\text{cost price} - \text{selling price}) / \text{cost price}$$

Calculation :

Let the cost price of the LED be $100x$

Marked price = $160x$

Selling price = $160x \times (100 - 12.5)/100 \times (100 - d)/100 \times (100 - 25)/100 = 105x \times (100 - d)/100$

$\Rightarrow 16/100 = [100x - 105x \times (100 - d)/100]/100x$

$\Rightarrow 105 \times (100 - d) = 100 - 16$

$\Rightarrow 105 \times (100 - d)/100 = 84$

$\Rightarrow d = 20\%$

$\therefore$ The required discount% is 20%

56. Answer: a

Explanation:

Year	1999				2005			
School	Total students	Percentage of girls	Number of the girls	Number of the boys	Total students	Percentage of girls	Number of the girls	Number of the boys
School A	300	40%	120	180	500	50%	250	250
School B	200	30%	60	140	600	75%	450	150
School C	400	60%	240	160	800	30%	240	560

The number of girls of School A in year 1999 increased by 10% = $120 \times (110/100) = 132$

The number of boys of school B in year 2005 decreased by 20% = $150 \times (80/100) = 120$

Required Ratio = 132 : 120

Required Ratio = 11 : 10

57. Answer: d

Explanation:

Year	1999				2005			
School	Total students	Percentage of girls	Number of the girls	Number of the boys	Total students	Percentage of girls	Number of the girls	Number of the boys
School A	300	40%	120	180	500	50%	250	250
School B	200	30%	60	140	600	75%	450	150
School C	400	60%	240	160	800	30%	240	560

the total number of boys in all the three school together in year 1999 and 2005 = 180 + 140 + 160 + 250 + 150 + 560 = 1440

58. Answer: b

Explanation:

Year	1999				2005			
School	Total students	Percentage of girls	Number of the girls	Number of the boys	Total students	Percentage of girls	Number of the girls	Number of the boys
School A	300	40%	120	180	500	50%	250	250
School B	200	30%	60	140	600	75%	450	150
School C	400	60%	240	160	800	30%	240	560

The number of the girls of school A in 1999 = 120

the number of boys of school B in 2005 = 150

$\therefore$ Required less percentage = $[(150 - 120)/150] \times 100 = 30/150 \times 100 = 20\%$

Your Personal Exams Guide

59. Answer: d

Explanation:

Year	1999				2005			
School	Total students	Percentage of girls	Number of the girls	Number of the boys	Total students	Percentage of girls	Number of the girls	Number of the boys
School A	300	40%	120	180	500	50%	250	250
School B	200	30%	60	140	600	75%	450	150
School C	400	60%	240	160	800	30%	240	560

Total number of all girls of three schools in 1999 = $120 + 60 + 240 = 420$

Average = Total number of all girls of three schools in 1999/number of schools

$\therefore$ Average = $420/3 = 140$

Your Personal Exams Guide

60. Answer: e

Explanation:

Year	1999				2005			
School	Total students	Percentage of girls	Number of the girls	Number of the boys	Total students	Percentage of girls	Number of the girls	Number of the boys
School A	300	40%	120	180	500	50%	250	250
School B	200	30%	60	140	600	75%	450	150
School C	400	60%	240	160	800	30%	240	560

Total students of schools A and B in 1999 = $300 + 200 = 500$

Total number of students of school C in 1999 and 2005 = $400 + 800 = 1200$

$\therefore$ Required answer = $1200 - 500 = 700$

Your Personal Exams Guide

61. Answer: a

Explanation:

Year	1999				2005			
School	Total students	Percentage of girls	Number of the girls	Number of the boys	Total students	Percentage of girls	Number of the girls	Number of the boys
School A	300	40%	120	180	500	50%	250	250
School B	200	30%	60	140	600	75%	450	150
School C	400	60%	240	160	800	30%	240	560

Required ratio, $150 : 120 = 5 : 4$

$\therefore$ Required ratio is $5 : 4$

62. Answer: d

Explanation:

Given:

Total distance covered = 270 km

Speed of Boat in still water = 12 km/hr

Speed of stream = x km/hr

Travelling Upstream takes 200/3% more

Concept used:

Upstream speed = Speed of boat – Speed of stream

Downstream speed = Speed of Boat + Speed of stream

Calculation:

Upstream speed = $(12 - x)$ km/hr

Downstream speed = $(12 + x)$ km/hr

So, $270/(12 - x) = 270/(12 + x) \times (100 + 200/3)\%$

$\Rightarrow 270/(12 - x) = 270/(12 + x) \times (5/3)$

$\Rightarrow 36 + 3x = 60 - 5x$

$\Rightarrow 8x = 24$

$\Rightarrow x = 3$

$\therefore$ The speed of the stream is 3 km/hr

63. Answer: b

Explanation:

Calculation:

Let the fraction be x

So, $(x \times x) = x^2$

And reciprocal of fraction = $1/x$

So, $x^2 \div (1/x) = 512/27$

$\Rightarrow (x^2 \times x) = 512/27$

$\Rightarrow x^3 = 512/27$

$\Rightarrow x = 8/3$

$\therefore$ The fraction is $8/3$

64. Answer: d

Explanation:**Given:**

The radius of the actual circle = 14 cm

The radius of another circle = 1.5 time of the actual circle

Formula used:

$$\text{Area of circle} = \pi r^2$$

Where,

$r \rightarrow$ Radius of circle

Calculation:

The radius of another circle = 1.5 time of the actual circle

$$\Rightarrow 1.5 \times 14$$

$$\Rightarrow 21$$

$$\text{Area of circle} = \pi r^2$$

$$\Rightarrow \left(\frac{22}{7}\right) \times 21 \times 21$$

$$\Rightarrow 1,386 \text{ cm}^2$$

$\therefore$ Area of the circle is $1,386 \text{ cm}^2$

65. Answer: d**Explanation:**

As per the information given in the question,

Perimeter of the rectangle = 28 cm

Ratio of length and width = 3 : 4

Let assume length(l) = x cm,

$$\text{Width}(b) = y \text{ cm}$$

By the given ratio,

$$\Rightarrow \text{length}/\text{width} = 3/4$$

$$\Rightarrow x/y = 3/4$$

$$\Rightarrow 4x = 3y$$

$$\Rightarrow x = (3/4)y \quad \text{---- (I)}$$

As we know that,

$$\text{Perimeter of the rectangle} = 2(l + b)$$

$$\Rightarrow 28 = 2(x + y)$$

$$\Rightarrow 28 = 2((3/4)y + y)$$

$$\Rightarrow 28 = (2/4)(7y)$$

$$\Rightarrow 56 = 7y$$

$$\Rightarrow y = 8 \text{ cm}$$

Put the value of y in eq (I);

$$\Rightarrow x = (3/4) \times 8 = 6 \text{ cm}$$

For the diameter of the circle,

As we know that, each corner of rectangle is 90° ;

Applying Pythagoras theorem in DADC,

$$AD^2 = AC^2 + CD^2$$

$$\Rightarrow AD^2 = 8^2 + 6^2 = 64 + 36 = 100$$

$$\Rightarrow AD = \sqrt{100} = 10 \text{ cm}$$

$$\text{Radius of the circle} = \text{diameter}/2 = AD/2 = 10/2 = 5 \text{ cm}$$

For the area of the rectangle,

$$\text{Area of rectangle} = l \times b = 6 \times 8 = 48 \text{ cm}^2$$

For the area of the circle,

$$\text{Area of the circle} = \pi r^2 = \left(\frac{22}{7}\right) \times 25 = 78.57 \text{ cm}^2$$

$$\therefore \text{Shaded area} = \text{Area of the circle} - \text{Area of the rectangle} = 78.57 - 48 = 30.57 \text{ cm}^2$$

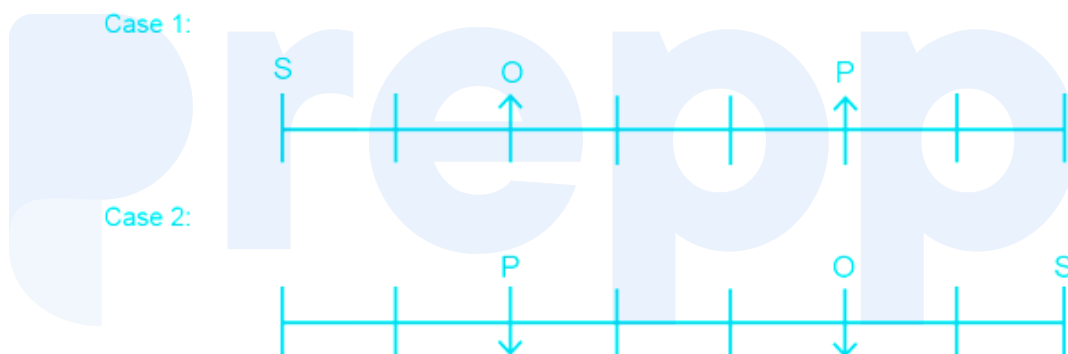
66. Answer: d

Explanation:

Students: M, N, O, P, Q, R, S and T.

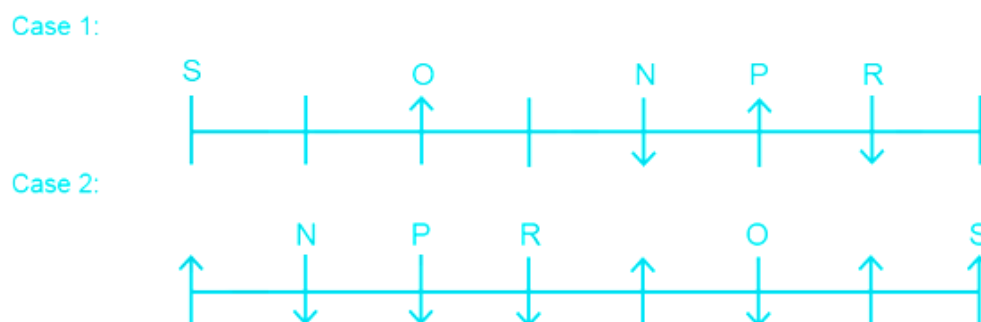
1. O sits third to the left of P and both face in the same direction.

2. One student sits between O and S, who sits at one of the extreme ends.



3. N sits second to the right of R and both face south direction.

4. N is not adjacent to O. So, N and P must be adjacent to each other.



5. Q is not adjacent to O.

6. T faces north and sits neither adjacent to S nor R. So, case 2 would be invalid.

7. Neighbours of M face in the same direction but opposite to that of M. So, M and Q must face south.

Case 1:



Hence, S sits immediately right of M.

67. Answer: e

Explanation:

Students: M, N, O, P, Q, R, S and T.

1. O sits third to the left of P and both face in the same direction.
2. One student sits between O and S, who sits at one of the extreme ends.

Case 1:



Case 2:



3. N sits second to the right of R and both face south direction.
4. N is not adjacent to O. So, N and P must be adjacent to each other.

Case 1:



Case 2:



5. Q is not adjacent to O.

6. T faces north and sits adjacent to neither S nor R. So, case 2 would be invalid.

7. Neighbours of M face in the same direction but opposite to that of M. So, M and Q must face south.

Case 1:



Hence, three students sit to the left of N.

68. Answer: c

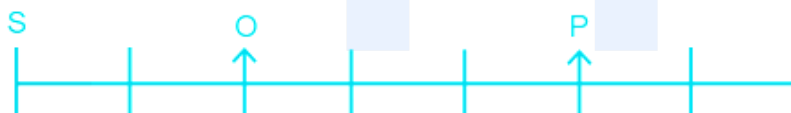
Explanation:

Students: M, N, O, P, Q, R, S and T.

1. O sits third to the left of P and both face in the same direction.

2. One student sits between O and S, who sits at one of the extreme ends.

Case 1:



Case 2:



3. N sits second to the right of R and both face south direction.

4. N is not adjacent to O. So, N and P must be adjacent to each other.

Case 1:



Case 2:



5. Q is not adjacent to O.

6. T faces north and sits adjacent to neither S nor R. So, case 2 would be invalid.

7. Neighbours of M face in the same direction but opposite to that of M. So, M and Q must face south.

Case 1:



All face north except Q.

Hence, Q does not belong to the group.

69. Answer: b

Explanation:

Students: M, N, O, P, Q, R, S and T.

1. O sits third to the left of P and both face in the same direction.

2. One student sits between O and S, who sits at one of the extreme ends.

Case 1:



Case 2:



3. N sits second to the right of R and both face south direction.

4. N is not adjacent to O. So, N and P must be adjacent to each other.

Case 1:



Case 2:



5. Q is not adjacent to O.

6. T faces north and sits adjacent to neither S nor R. So, case 2 would be invalid.

7. Neighbours of M face in the same direction but opposite to that of M. So, M and Q must face south.

Case 1:



Hence, N sits third to the left of M.

70. Answer: a

Explanation:

Students: M, N, O, P, Q, R, S and T.

1. O sits third to the left of P and both face in the same direction.

2. One student sits between O and S, who sits at one of the extreme ends.

Case 1:



Case 2:



3. N sits second to the right of R and both face south direction.

4. N is not adjacent to O. So, N and P must be adjacent to each other.

Case 1:



Case 2:



5. Q is not adjacent to O.

6. T faces north and sits adjacent to neither S nor R. So, case 2 would be invalid.

7. Neighbours of M face in the same direction but opposite to that of M. So, M and Q must face south.

Case 1:

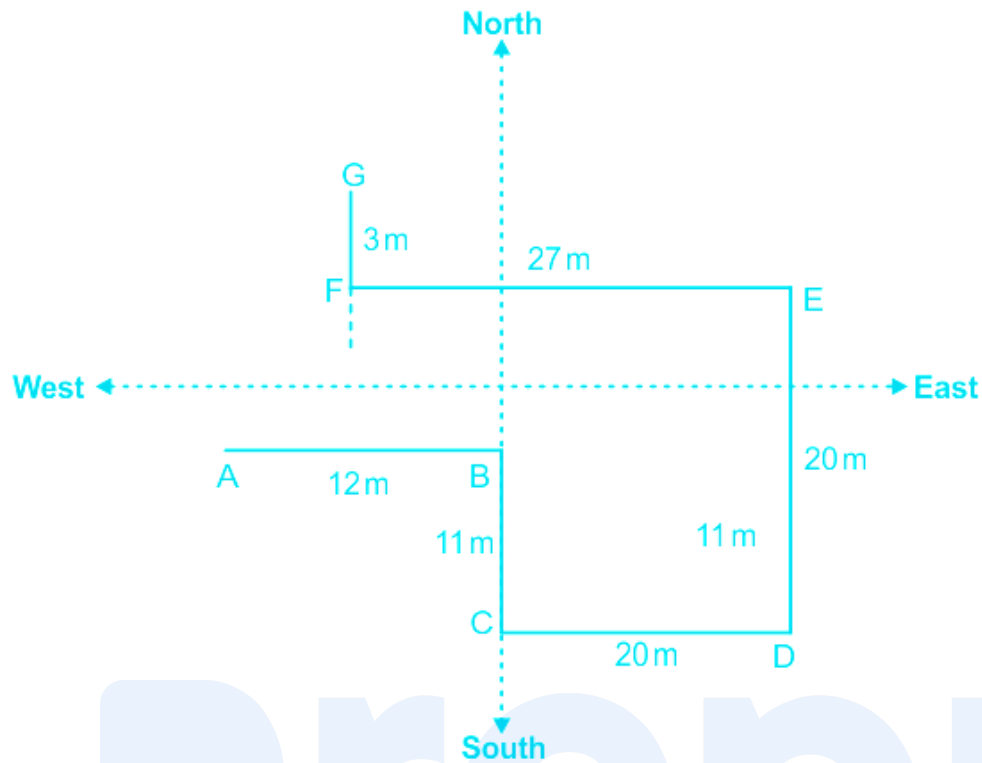


Hence, four students sit between S and P.

71. Answer: c

Explanation:

According to the given statements we will get the following diagram:

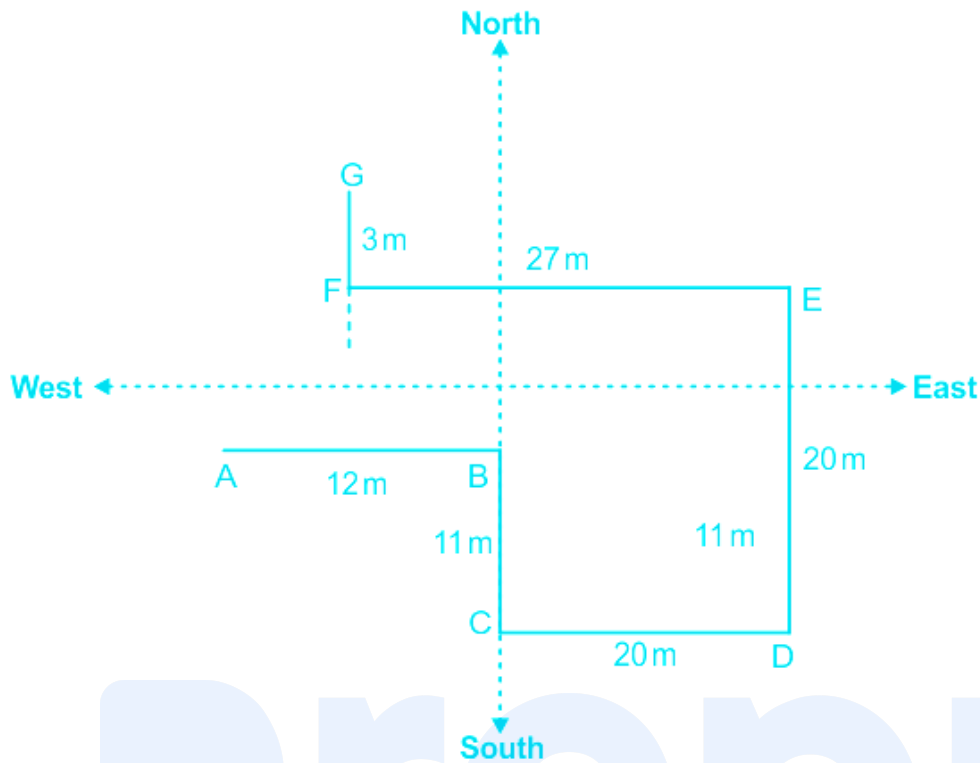


Hence, person E is in the north-east direction with respect to person B.

72. Answer: e

Explanation:

According to the given statements we will get the following diagram:

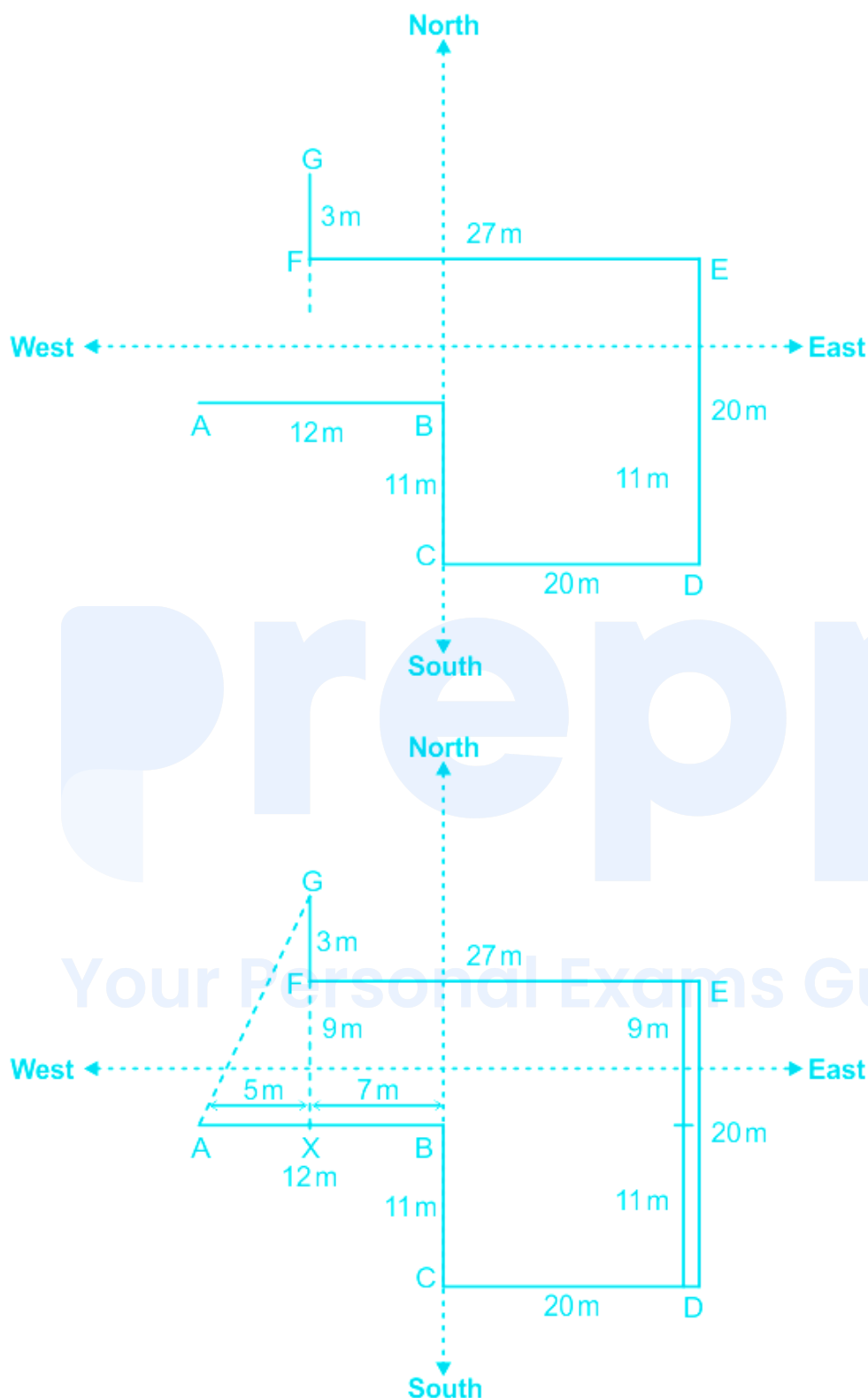


Hence, person G is in the north-west direction with respect to C.

73. Answer: b

Explanation:

According to the given statements we will get the following diagram:



Here, we have to find the shortest distance between A and G,

By using Pythagoras Theorem, we get,

$$AG^2 = AX^2 + GX^2$$

$$\Rightarrow AG^2 = AX^2 + (GF + FX)^2$$

$$\Rightarrow AG^2 = 5^2 + (3 + 9)^2$$

$$\Rightarrow AG^2 = 25 + 144 = 169$$

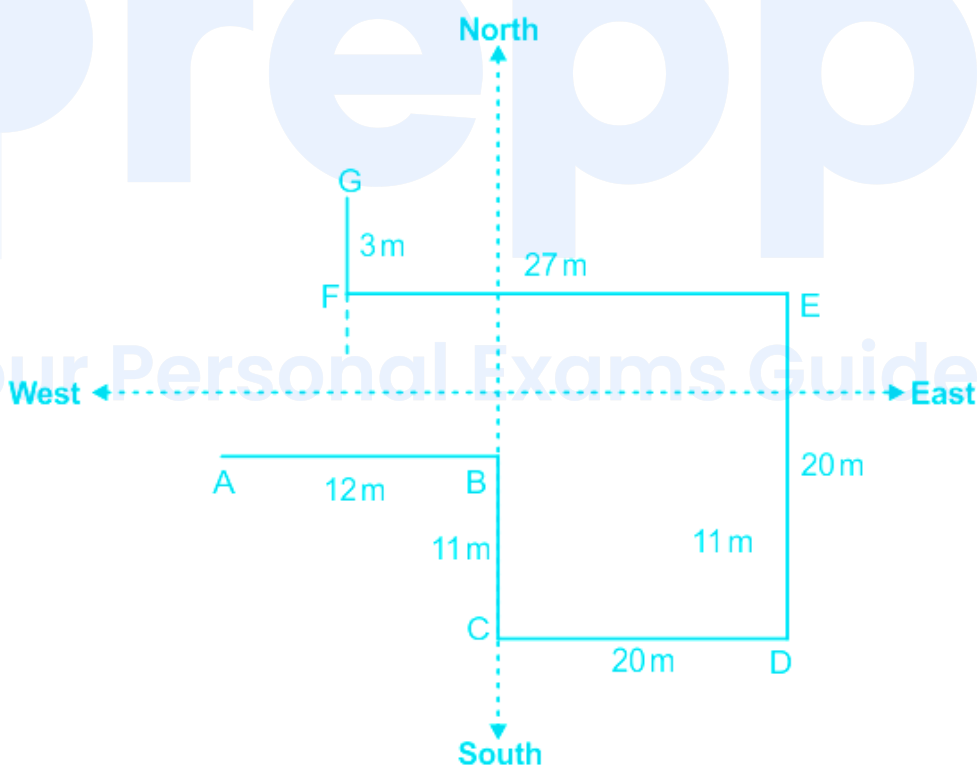
$$\Rightarrow AG = \sqrt{169} = 13$$

Hence, the shortest distance between person A and person G is 13 metres.

74. Answer: d

Explanation:

According to the given statements we will get the following diagram:



Here, in all the options the second person is to the north-east of the first person except the pair DG. In DG, G is to the north-west of D.

Hence, DG is the pair which is different from the others.

75. Answer: d

Explanation:

Given word: ABBREVIATE

The first, fourth, fifth and the ninth letters of the word 'ABBREVIATE' are A, R, E, and T.

The words that can be formed using the letters A, R, E, and T are RATE, TEAR, TARE. As, more than one word can be formed using the letters.

Hence, X is the correct answer.

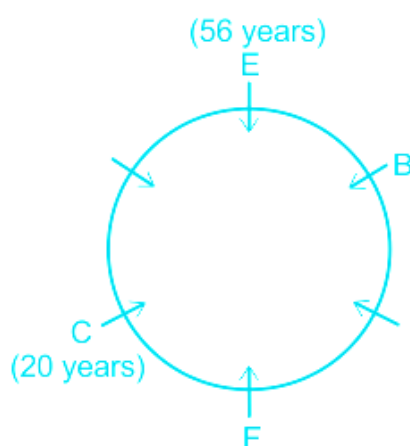
76. Answer: c

Explanation:

Names Given: A, B, C, D, E, and F

Face Direction: Towards the centre

- 1) B is second to the right of F.
- 2) C sits opposite to B and is of 20 years of age.
- 3) E is 56 years old and sits second to the left of C.



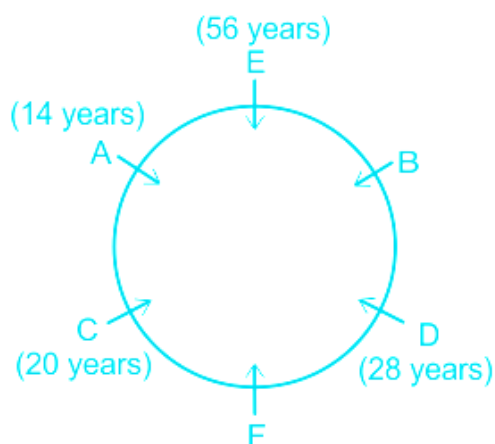
- 4) D does not sit near to E.

(Hence, D will sit between B and F).

5) The age of D is 28 years.

6) The age of A is half the age of D.

(Hence, the age of A will be $28 \div 2 = 14$ years).



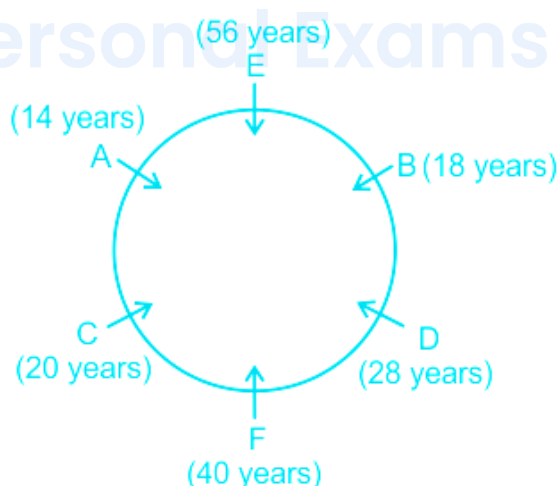
7) The age of F is twice the age of C.

(According to statement 2, the age of C is 20 years so the age of F will be $20 \times 2 = 40$ years).

8) The sum of ages of A and B is 32.

(According to statement 6, the age of A is 14 years so the age of B will be $32 - 14 = 18$ years).

Hence, the final arrangement will be as follows:



Hence, D is sitting immediate to the left of B.

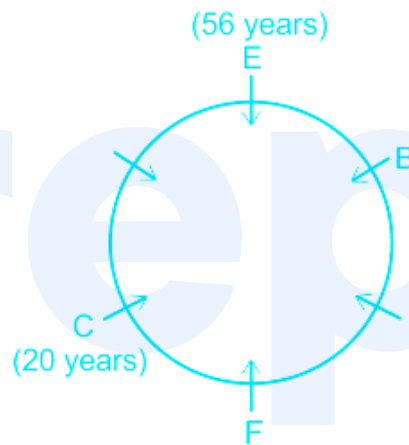
77. Answer: e

Explanation:

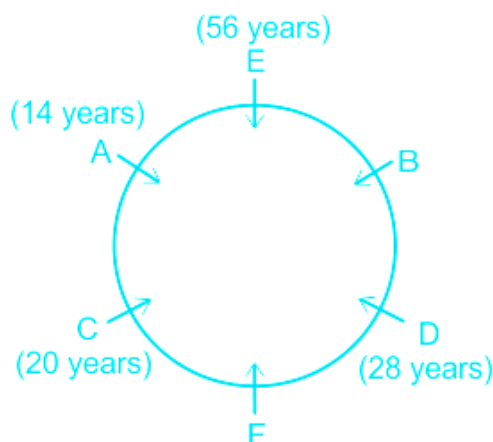
Names Given: A, B, C, D, E, and F

Face Direction: Towards the centre

- 1) B is second to the right of F.
- 2) C sits opposite to B and is of 20 years of age.
- 3) E is 56 years old and sits second to the left of C.



- 4) D does not sit near to E.
(Hence, D will sit between B and F).
- 5) The age of D is 28 years.
- 6) The age of A is half the age of D.
(Hence, the age of A will be $28 \div 2 = 14$ years).



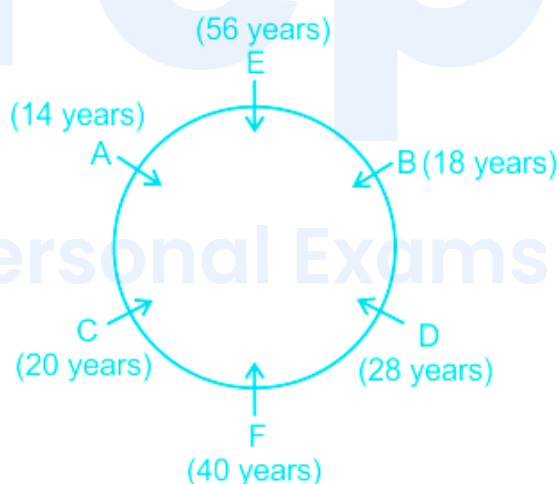
7) The age of F is twice the age of C.

(According to statement 2, the age of C is 20 years so the age of F will be $20 \times 2 = 40$ years).

8) The sum of ages of A and B is 32.

(According to statement 6, the age of A is 14 years so the age of B will be $32 - 14 = 18$ years).

Hence, the final arrangement will be as follows:



Hence, the age of B is 18 years .

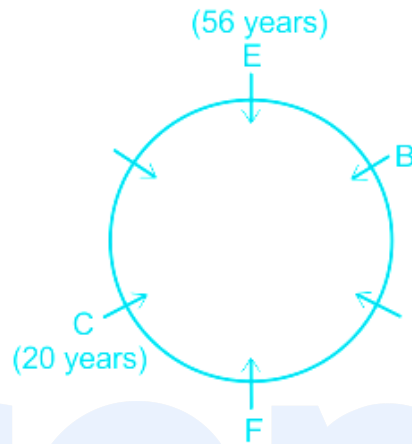
78. Answer: d

Explanation:

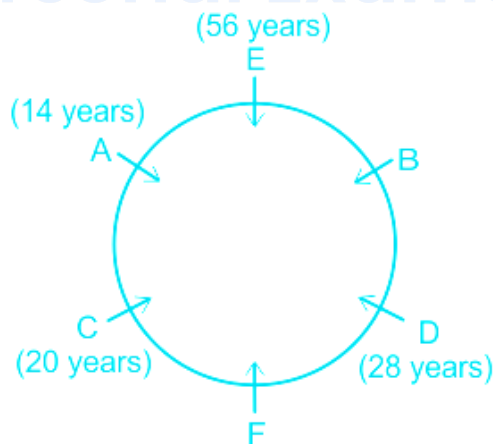
Names Given: A, B, C, D, E, and F

Face Direction: Towards the centre

- 1) B is second to the right of F.
- 2) C sits opposite to B and is of 20 years of age.
- 3) E is 56 years old and sits second to the left of C.



- 4) D does not sit near to E.
(Hence, D will sit between B and F).
- 5) The age of D is 28 years.
- 6) The age of A is half the age of D.
(Hence, the age of A will be $28 \div 2 = 14$ years).

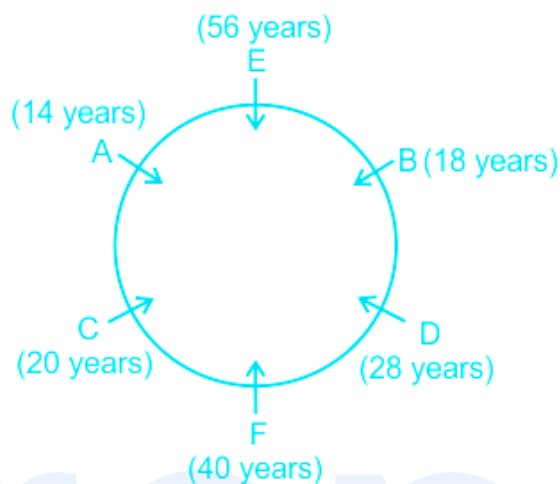


- 7) The age of F is twice the age of C.
(According to statement 2, the age of C is 20 years so the age of F will be $20 \times 2 = 40$ years).

8) The sum of ages of A and B is 32.

(According to statement 6, the age of A is 14 years so the age of B will be $32 - 14 = 18$ years).

Hence, the final arrangement will be as follows:



Hence, four persons are sitting between A and E, when counted from the left of E.

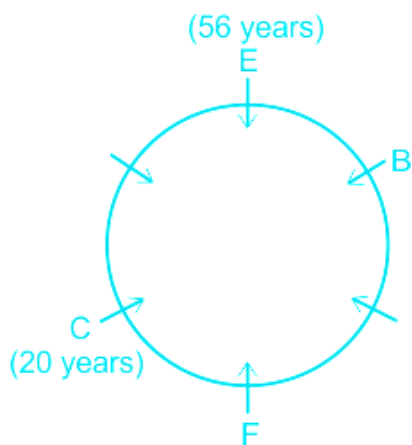
79. Answer: b

Explanation:

Names Given: A, B, C, D, E, and F

Face Direction: Towards the centre

- 1) B is second to the right of F.
- 2) C sits opposite to B and is of 20 years of age.
- 3) E is 56 years old and sits second to the left of C.



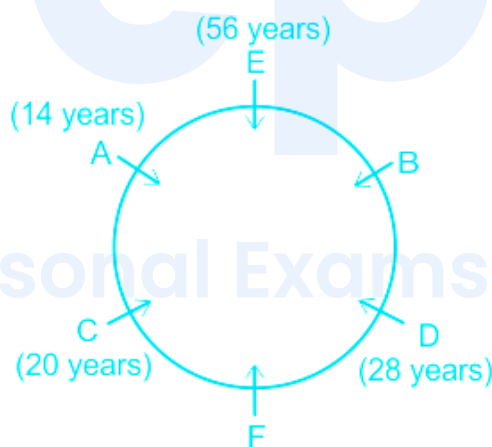
4) D does not sit near to E.

(Hence, D will sit between B and F).

5) The age of D is 28 years.

6) The age of A is half the age of D.

(Hence, the age of A will be $28 \div 2 = 14$ years).



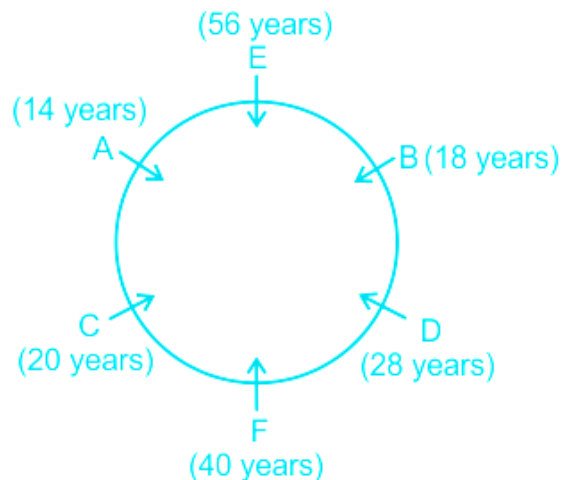
7) The age of F is twice the age of C.

(According to statement 2, the age of C is 20 years so the age of F will be $20 \times 2 = 40$ years).

8) The sum of ages of A and B is 32.

(According to statement 6, the age of A is 14 years so the age of B will be $32 - 14 = 18$ years).

Hence, the final arrangement will be as follows:



The age of A is 14 years, age of D is 28 years and age of F is 40 years, the sum of their ages is $14 + 28 + 40 = 82$.

Hence, the sum of ages of A, D, and F is 82

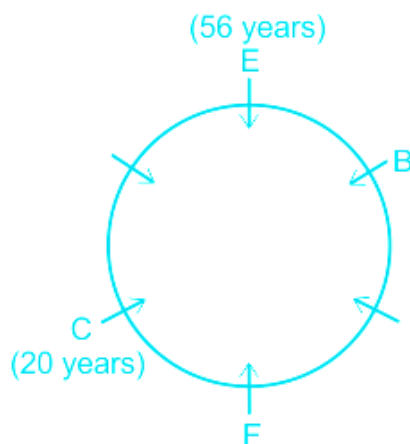
80. Answer: e

Explanation:

Names Given: A, B, C, D, E, and F

Face Direction: Towards the centre

- 1) B is second to the right of F.
- 2) C sits opposite to B and is of 20 years of age.
- 3) E is 56 years old and sits second to the left of C.



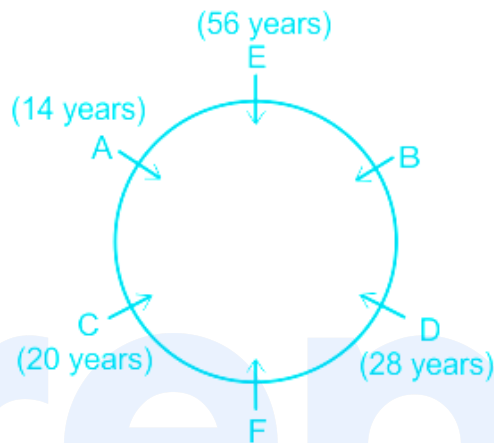
4) D does not sit near to E.

(Hence, D will sit between B and F).

5) The age of D is 28 years.

6) The age of A is half the age of D.

(Hence, the age of A will be $28 \div 2 = 14$ years).



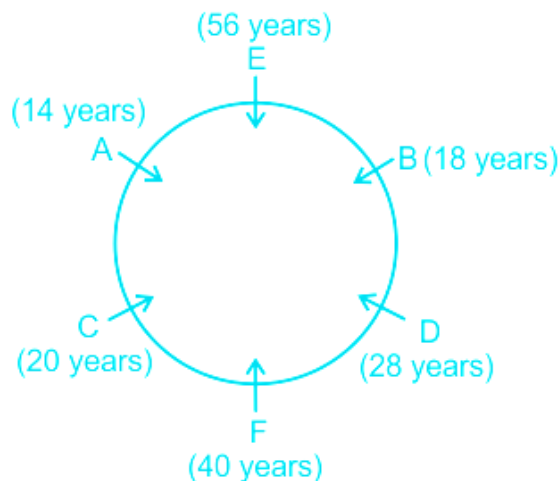
7) The age of F is twice the age of C.

(According to statement 2, the age of C is 20 years so the age of F will be $20 \times 2 = 40$ years).

8) The sum of ages of A and B is 32.

(According to statement 6, the age of A is 14 years so the age of B will be $32 - 14 = 18$ years).

Hence, the final arrangement will be as follows:

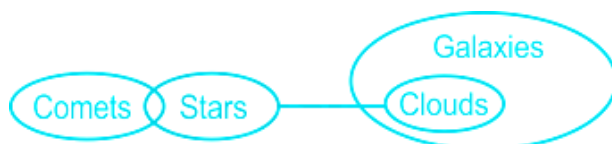


Hence, C – 22 is the incorrect name – age pair.

81. Answer: d

Explanation:

The least possible diagram is as follows:



Conclusions:

I. Some Stars are Galaxies → False (it is possible but not definite)

II. No Star is Galaxy → False (it is possible but not definite)

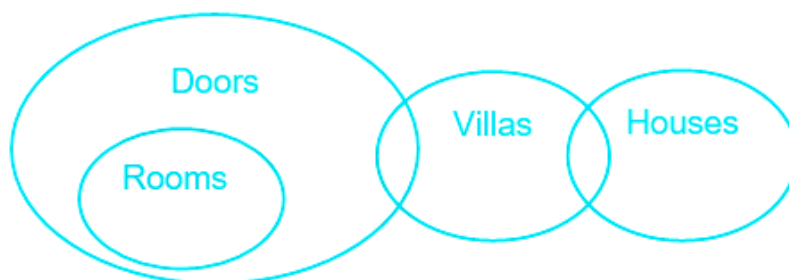
I and II form a complementary pair.

Hence, either I or II is true

82. Answer: b

Explanation:

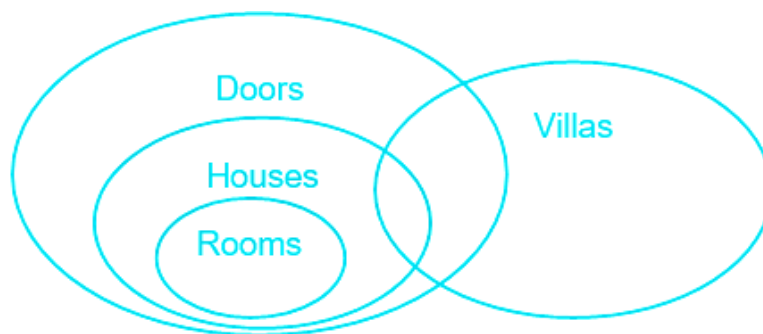
The least possible Venn diagram for the given statements is as follows



Conclusions:

I. Some rooms are villas → False (It is possible but not definite)

II. All rooms being house is a possibility → True (Possibility is true as shown below.)



Thus, Only II follows.

83. Answer: c

Explanation:

The least possible Venn diagrams as follows,



Conclusion:

I. Some injection is syrup. → False (because only medicine can be syrup)

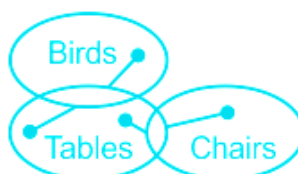
II. No injection is tablet. → True (all injection are medicine and no medicine will be tablet hence it is true)

Hence, only conclusion II follow

84. Answer: d

Explanation:

The least possible Venn diagram for the given statements is as follows:



Conclusions:

I. All birds can be table → **False** (As only a few birds are table, some birds are not table as shown in the diagram, so all birds cannot be table).

II. Some birds are chairs → **False** (As there is no definite relation between birds and chairs).

Hence, **neither conclusion I nor II** follows.

NOTE: "Can be" means possible case.

85. Answer: c

Explanation:

- 1) Four boxes are kept between P and Q. Q is kept below P.
- 2) Box T is kept immediately above Q.

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CASE 1	CASE 2	CASE 3	CASE 4
P			
	P		
		P	
			P
T			
Q	T		
	Q	T	
		Q	T
			Q

3) Two boxes are kept between T and X.

4) X is kept immediately below S. (This eliminates case 3) and 4)

CASE 1	CASE 2
P	
	P
T	
Q	T
S	Q
X	S
	X

5) Two boxes are kept between R and U. U is not kept below P. (This eliminate case 1)

6) V is kept above T but not immediately below R.

Final Arrangement
U
P
V
R
W
T
Q
S
X

Hence, U is kept at the top.

86. Answer: e

Explanation:

- 1) Four boxes are kept between P and Q. Q is kept below P.
- 2) Box T is kept immediately above Q.

CASE 1	CASE 2	CASE 3	CASE 4
P			
	P		
		P	
			P
T			
Q	T		
	Q	T	
		Q	T
			Q

3) Two boxes are kept between T and X.

4) X is kept immediately below S. (This eliminates case 3) and 4)

CASE 1	CASE 2
P	
	P
T	
Q	T
S	Q
X	S
	X

5) Two boxes are kept between R and U. U is not kept below P. (This eliminate case 1)

6) V is kept above T but not immediately below R.

Final Arrangement
U
P
V
R
W
T
Q
S
X

Hence, both 2) and 3) statement is true.

87. Answer: a

Explanation:

- 1) Four boxes are kept between P and Q. Q is kept below P.
- 2) Box T is kept immediately above Q.

CASE 1	CASE 2	CASE 3	CASE 4
P			
	P		
		P	
			P
T			
Q	T		
	Q	T	
		Q	T
			Q

3) Two boxes are kept between T and X.

4) X is kept immediately below S. (This eliminates case 3) and 4)

CASE 1	CASE 2
P	
	P
T	
Q	T
S	Q
X	S
	X

5) Two boxes are kept between R and U. U is not kept below P. (This eliminate case 1)

6) V is kept above T but not immediately below R.

Final Arrangement
U
P
V
R
W
T
Q
S
X

Gebce, Number of boxes above V is same as the number of boxes below Q.

88. Answer: b

Explanation:

- 1) Four boxes are kept between P and Q. Q is kept below P.
- 2) Box T is kept immediately above Q.

CASE 1	CASE 2	CASE 3	CASE 4
P			
	P		
		P	
			P
T			
Q	T		
	Q	T	
		Q	T
			Q

3) Two boxes are kept between T and X.

4) X is kept immediately below S. (This eliminates case 3) and 4)

CASE 1	CASE 2
P	
	P
T	
Q	T
S	Q
X	S
	X

5) Two boxes are kept between R and U. U is not kept below P. (This eliminate case 1)

6) V is kept above T but not immediately below R.

Final Arrangement
U
P
V
R
W
T
Q
S
X

Hence, W is kept at the middle of the stack.

89. Answer: c

Explanation:

- 1) Four boxes are kept between P and Q. Q is kept below P.
- 2) Box T is kept immediately above Q.

CASE 1	CASE 2	CASE 3	CASE 4
P			
	P		
		P	
			P
T			
Q	T		
	Q	T	
		Q	T
			Q

3) Two boxes are kept between T and X.

4) X is kept immediately below S. (This eliminates case 3) and 4)

CASE 1	CASE 2
P	
	P
T	
Q	T
S	Q
X	S
	X

5) Two boxes are kept between R and U. U is not kept below P. (This eliminate case 1)

6) V is kept above T but not immediately below R.

Final Arrangement
U
P
V
R
W
T
Q
S
X

Hence, W is immediately below T is not true about W.

90. Answer: c

Explanation:

Letters	O	B	J	E	C	T	I	O	N
Position	15	2	10	5	3	20	9	15	14

Hence, "four "pairs of letters are there in the word 'OBJECTION', each of that has as many letters between them in the word (both forward and backward direction) as they have between them in the English Alphabet.

91. Answer: d

Explanation:

Given statements: $A = F > D$; $A > C > E = B$

On combining: $D < F = A > C > E = B$

Conclusions:

I. $A > B \rightarrow \text{True}$ (as $A > C > E = B \rightarrow A > B$)

II. $D < E \rightarrow \text{False}$ (as $D < F = A > C > E \rightarrow$ clear relation between D and E cannot be determined)

Hence, only I is True.

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92. Answer: b

Explanation:

Given statements: $Z \leq T = Y < X$; $E < W > F = G \leq Z$

On combining: $E < W > F = G \leq Z \leq T = Y < X$

Conclusions:

I. $Y \geq G \rightarrow \text{True}$ (as $G \leq Z \leq T = Y \rightarrow Y \geq G$)

II. $X > F \rightarrow \text{True}$ (as $F = G \leq Z \leq T = Y < X \rightarrow X > F$)

Hence, both I and II are True.

93. Answer: e

Explanation:

Given statements: $Y \leq U \leq I; K \leq J > H = G \geq V = I$

On combining: $K \leq J > H = G \geq V = I \geq U \geq Y$

Conclusions:

I. $H > Y \rightarrow$ False (as $H = G \geq V = I \geq U \geq Y \rightarrow H \geq Y$)

II. $H = Y \rightarrow$ False (as $H = G \geq V = I \geq U \geq Y \rightarrow H \geq Y$)

Therefore, conclusion I and II forms complementary pair.

Hence, Either I or II is True.

94. Answer: b

Explanation:

From the given information,

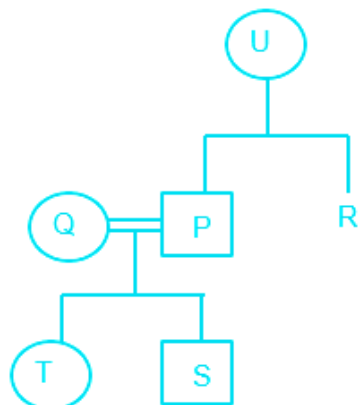
Symbol in Diagram	Meaning
○	Female
□	Male
==	Married couple
—	Siblings
	Difference of a generation

1. S is the son of P, who is the brother of R.

2. T is the sister of S.

3. Q is the daughter-in-law of U, who is the grandmother of T's brother. (T's brother is S so R is the son of U, then Q is P's wife)

4. P and Q are married couples.



Hence, Q is the mother of S.

95. Answer: e

Explanation:

From the given information,

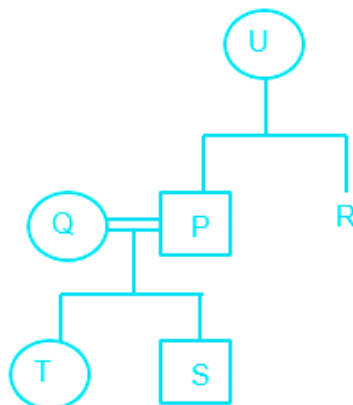
Symbol in Diagram	Meaning
○	Female
□	Male
==	Married couple
—	Siblings
	Difference of a generation

1. S is the son of P, who is the brother of R.

2. T is the sister of S.

3. Q is the daughter-in-law of U, who is the grandmother of T's brother. (T's brother is S so R is the son of U, then Q is P's wife)

4. P and Q are married couples.



R's gender is not mentioned.

Hence, the relation between R and T cannot be determined.

96. Answer: b

Explanation:

- 1) A lives on the even numbered floor and he lives in north west of the flat in which D lives.
- 2) D neither likes Red nor Blue.
- 3) Only one floor is between the one who like Red color and the one who like Blue color and both having same flat name.

CASE 1					CASE 2				
Floor	Flat - P	Color	Flat - Q	Color	Floor	Flat - P	Color	Flat - Q	Color
3		Red/ Blue			3		Red/ Blue		
2	A				2	A			
1		Red/ Blue	D		1		Red/ Blue	D	

- 4) E likes black color and lives immediately above the one who like Orange color in the same flat
- 5) One who like white color lives east of C.
- 6) B lives above F.

CASE 1					CASE 2				
Floor	Flat - P	Color	Flat - Q	Color	Floor	Flat - P	Color	Flat - Q	Color
3	C	Red/ Blue	B	White	3	B	Red/ Blue	E	Black
2	A	Yellow	E	Black	2	A	Yellow	F	Orange
1	F	Red/ Blue	D	Orange	1	C	Red/ Blue	D	White

- 7) B and the one who likes Yellow color is having different flat name. (This eliminates the case – 2)
- 8) F does not like Red Color.

CASE 1				
Floor	Flat - P	Color	Flat - Q	Color
3	C	Red	B	White
2	A	Yellow	E	Black
1	F	Blue	D	Orange

Hence, A lives on Floor -2 and Flat - P.

97. Answer: a

Explanation:

- 1) A lives on the even numbered floor and he lives in north west of the flat in which D lives.
- 2) D neither likes Red nor Blue.
- 3) Only one floor is between the one who like Red color and the one who like Blue color and both having same flat name.

CASE 1					CASE 2				
Floor	Flat - P	Color	Flat - Q	Color	Floor	Flat - P	Color	Flat - Q	Color
3		Red/ Blue			3		Red/ Blue		
2	A				2	A			
1		Red/ Blue	D		1		Red/ Blue	D	

- 4) E likes black color and lives immediately above the one who like Orange color in the same flat
- 5) One who like white color lives east of C.
- 6) B lives above F.

CASE 1					CASE 2				
Floor	Flat - P	Color	Flat - Q	Color	Floor	Flat - P	Color	Flat - Q	Color
3	C	Red/ Blue	B	White	3	B	Red/ Blue	E	Black
2	A	Yellow	E	Black	2	A	Yellow	F	Orange
1	F	Red/ Blue	D	Orange	1	C	Red/ Blue	D	White

- 7) B and the one who likes Yellow color is having different flat name. (This eliminates the case – 2)
- 8) F does not like Red Color.

CASE 1				
Floor	Flat - P	Color	Flat - Q	Color
3	C	Red	B	White
2	A	Yellow	E	Black
1	F	Blue	D	Orange

Hence, B likes white color.

98. Answer: e

Explanation:

- 1) A lives on the even numbered floor and he lives in north west of the flat in which D lives.
- 2) D neither likes Red nor Blue.
- 3) Only one floor is between the one who like Red color and the one who like Blue color and both having same flat name.

CASE 1					CASE 2				
Floor	Flat - P	Color	Flat - Q	Color	Floor	Flat - P	Color	Flat - Q	Color
3		Red/ Blue			3		Red/ Blue		
2	A				2	A			
1		Red/ Blue	D		1		Red/ Blue	D	

- 4) E likes black color and lives immediately above the one who like Orange color in the same flat
- 5) One who like white color lives east of C.
- 6) B lives above F.

CASE 1					CASE 2				
Floor	Flat - P	Color	Flat - Q	Color	Floor	Flat - P	Color	Flat - Q	Color
3	C	Red/ Blue	B	White	3	B	Red/ Blue	E	Black
2	A	Yellow	E	Black	2	A	Yellow	F	Orange
1	F	Red/ Blue	D	Orange	1	C	Red/ Blue	D	White

- 7) B and the one who likes Yellow color is having different flat name. (This eliminates the case – 2)
- 8) F does not like Red Color.

CASE 1				
Floor	Flat - P	Color	Flat - Q	Color
3	C	Red	B	White
2	A	Yellow	E	Black
1	F	Blue	D	Orange

Hence, B and D lives in Flat - Q

99. Answer: c

Explanation:

- 1) A lives on the even numbered floor and he lives in north west of the flat in which D lives.
- 2) D neither likes Red nor Blue.
- 3) Only one floor is between the one who like Red color and the one who like Blue color and both having same flat name.

CASE 1					CASE 2				
Floor	Flat - P	Color	Flat - Q	Color	Floor	Flat - P	Color	Flat - Q	Color
3		Red/ Blue			3		Red/ Blue		
2	A				2	A			
1		Red/ Blue	D		1		Red/ Blue	D	

- 4) E likes black color and lives immediately above the one who like Orange color in the same flat
- 5) One who like white color lives east of C.
- 6) B lives above F.

CASE 1					CASE 2				
Floor	Flat - P	Color	Flat - Q	Color	Floor	Flat - P	Color	Flat - Q	Color
3	C	Red/ Blue	B	White	3	B	Red/ Blue	E	Black
2	A	Yellow	E	Black	2	A	Yellow	F	Orange
1	F	Red/ Blue	D	Orange	1	C	Red/ Blue	D	White

- 7) B and the one who likes Yellow color is having different flat name. (This eliminates the case – 2)
- 8) F does not like Red Color.

CASE 1				
Floor	Flat - P	Color	Flat - Q	Color
3	C	Red	B	White
2	A	Yellow	E	Black
1	F	Blue	D	Orange

Hence, A and E live on Floor 2.

100. Answer: d

Explanation:

- 1) A lives on the even numbered floor and he lives in north west of the flat in which D lives.
- 2) D neither likes Red nor Blue.
- 3) Only one floor is between the one who like Red color and the one who like Blue color and both having same flat name.

CASE 1					CASE 2				
Floor	Flat - P	Color	Flat - Q	Color	Floor	Flat - P	Color	Flat - Q	Color
3		Red/ Blue			3		Red/ Blue		
2	A				2	A			
1		Red/ Blue	D		1		Red/ Blue	D	

4) E likes black color and lives immediately above the one who like Orange color in the same flat

5) One who like white color lives east of C.

6) B lives above F.

CASE 1					CASE 2				
Floor	Flat - P	Color	Flat - Q	Color	Floor	Flat - P	Color	Flat - Q	Color
3	C	Red/ Blue	B	White	3	B	Red/ Blue	E	Black
2	A	Yellow	E	Black	2	A	Yellow	F	Orange
1	F	Red/ Blue	D	Orange	1	C	Red/ Blue	D	White

7) B and the one who likes Yellow color is having different flat name. (This eliminates the case – 2)

8) F does not like Red Color.

CASE 1				
Floor	Flat - P	Color	Flat - Q	Color
3	C	Red	B	White
2	A	Yellow	E	Black
1	F	Blue	D	Orange

Hence, Blue color is liked by F.



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