



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SBI PO 2018 (Prelims) Memory-Based Test (24-Jun-2018)

Total Time: 1 Hour

Total Marks: 100

Instructions

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

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

English Language

1. Arrange the sentences in the correct order and answer the following questions. (+1, -0.25)

A. Over the past year, perceptions of relative U.S. economic power have declined in many of America's key trading partners and allies.

B. Following the onset of the financial crisis nearly a decade ago, Europeans increasingly named China, rather than the U.S., as the world's leading economic power.

C. This year, however, the pattern has reversed itself again, and in countries such as Germany, the United Kingdom, and Spain, China is once more seen as occupying the top spot.

D. But in recent years, as the American economy slowly recovered, the pendulum began to swing back in the direction of the U.S.

E. The trend can be seen in several European countries, where views about the economic balance of power have fluctuated in recent years.

Which of the following is the **THIRD** statement?

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

-
2. Arrange the sentences in the correct order and answer the following questions. (+1, -0.25)

- A. Over the past year, perceptions of relative U.S. economic power have declined in many of America's key trading partners and allies.
- B. Following the onset of the financial crisis nearly a decade ago, Europeans increasingly named China, rather than the U.S., as the world's leading economic power.
- C. This year, however, the pattern has reversed itself again, and in countries such as Germany, the United Kingdom, and Spain, China is once more seen as occupying the top spot.
- D. But in recent years, as the American economy slowly recovered, the pendulum began to swing back in the direction of the U.S.
- E. The trend can be seen in several European countries, where views about the economic balance of power have fluctuated in recent years.

Which of the following is the **FIRST** statement?

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

3. Arrange the sentences in the correct order and answer the following questions. (+1, -0.25)

- A. Over the past year, perceptions of relative U.S. economic power have declined in many of America's key trading partners and allies.
- B. Following the onset of the financial crisis nearly a decade ago, Europeans increasingly named China, rather than the U.S., as the world's

leading economic power.

C. This year, however, the pattern has reversed itself again, and in countries such as Germany, the United Kingdom, and Spain, China is once more seen as occupying the top spot.

D. But in recent years, as the American economy slowly recovered, the pendulum began to swing back in the direction of the U.S.

E. The trend can be seen in several European countries, where views about the economic balance of power have fluctuated in recent years.

Which of the following is the **SECOND** statement?

a. A

b. B

c. C

d. D

e. E

4. Arrange the sentences in the correct order and answer the following questions. (+1, -0.25)

A. Over the past year, perceptions of relative U.S. economic power have declined in many of America's key trading partners and allies.

B. Following the onset of the financial crisis nearly a decade ago, Europeans increasingly named China, rather than the U.S., as the world's leading economic power.

C. This year, however, the pattern has reversed itself again, and in countries such as Germany, the United Kingdom, and Spain, China is once more seen as occupying the top spot.

D. But in recent years, as the American economy slowly recovered, the pendulum began to swing back in the direction of the U.S.

E. The trend can be seen in several European countries, where views about the economic balance of power have fluctuated in recent years.

Which of the following is the **FIFTH** statement?

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

5. Arrange the sentences in the correct order and answer the following questions. (+1, -0.25)

A. Over the past year, perceptions of relative U.S. economic power have declined in many of America's key trading partners and allies.

B. Following the onset of the financial crisis nearly a decade ago, Europeans increasingly named China, rather than the U.S., as the world's leading economic power.

C. This year, however, the pattern has reversed itself again, and in countries such as Germany, the United Kingdom, and Spain, China is once more seen as occupying the top spot.

D. But in recent years, as the American economy slowly recovered, the pendulum began to swing back in the direction of the U.S.

E. The trend can be seen in several European countries, where views about the economic balance of power have fluctuated in recent years.

Which of the following is the **FOURTH** statement?

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

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

Shooting as well as horse riding (1) are taught (2) to cadets at the National Defence (3) Academy every morning. (4)

- a. 1
- b. 2
- c. 3
- d. 4
- e. No error

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

The President, along with several international guests, (1) are to be present (2) during the swearing-in ceremony (3) of the new government. (4)

- a. 1
- b. 2
- c. 3
- d. 4
- e. No error

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

India has a long way (1) to go to reach environmental (2) quality similar to that enjoyed (3) in developed economies. (4)

- a. 1
- b. 2
- c. 3
- d. 4
- e. No error

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

Stories are all about going further reality (1) and it is no wonder that they (2) let you understand big concepts with only (3) a little bit of reading practice. (4)

- a. 1
- b. 2
- c. 3
- d. 4
- e. No error

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

Who wouldn't love to chat (1)/ about who character is their favorite, (2) or predict what will happen in a (3) suspense story they are reading? (4)

- a. 1
- b. 2
- c. 3
- d. 4
- e. No error

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

Over the last few decades, (1) the exploitation of our planet and (2) the degradation of our environment have (3) grown up at an alarming rate. (4)

- a. 1
- b. 2
- c. 3
- d. 4
- e. No error

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

In June, the Swedish medical company (1) Elekta announced the introduction Watson (2) for Oncology, a medical AI system developed (3) by IBM in the United States. (4)

- a. 1
- b. 2
- c. 3
- d. 4
- e. No error

-
13. Parents prefer private schools. A global survey in 2017 found that they were a lot more likely to give the teaching at their children's school a positive rating if it was private than if it was public; **parents in Chile have voted with their children's feet in favour of the private sector** . The private sector's efficiency is one reason why it does well at providing access to education. Another is its speed: in fast-growing cities, governments (+1, -0.25)

struggle to provide schools, but wherever there are people, schools spring up.

Governments are often less keen on private education. Some of the reasons for their hostility are bad ones: a reluctance to **cede** power, the opportunity for patronage, the influence of teachers' unions. But some are entirely in order: governments need to promote quality, access to schooling and equity. The private sector is **good** at some, but not all, of those. Yet well-designed public-private partnerships can work. Two of the world's best education systems—those of the Netherlands and Hong Kong—are based on them.

The main reason for the private sector's superior efficiency seems to be teachers, who are paid less and are more likely to turn up for work than at government schools. Politics has a lot to do with that. Teachers' unions have huge bargaining power and can, therefore, protect their members from being held to account for poor performance. An Indian study found that in 3,000 government schools, only one principal had ever dismissed a teacher; among 600 private schools, 35 had.

Which of the following is TRUE based on the above passage?

- a. However well-designed the public-private partnerships are, they can never effectively work.
- b. Parents do not prefer public schools as they do not have responsible teachers.
- c. Teachers' unions have very less bargaining power and, therefore, exercise it with accountability.
- d. Well-designed public-private partnerships in the sector of education can be beneficial.
- e. Public schools are more affordable than private schools.

14. Parents prefer private schools. A global survey in 2017 found that they were a lot more likely to give the teaching at their children's school a positive rating if it was private than if it was public; **parents in Chile have voted with their children's feet in favour of the private sector** . The private sector's efficiency is one reason why it does well at providing access to education. Another is its speed: in fast-growing cities, governments struggle to provide schools, but wherever there are people, schools spring up. (+1, -0.25)

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According to the above passage which of the following is true?

- Private schools are failing at meeting the demands of the country's population.
- The accountability of teachers is much higher in the private education sector than public.
- Teachers' unions don't perform the tasks of saving incompetent teachers from getting fired.

- d. Parents these days are aware of the children and opt accordingly.
- e. Private schools have a more positive rating among parents as compared to public schools.

15. Parents prefer private schools. A global survey in 2017 found that they were a lot more likely to give the teaching at their children's school a positive rating if it was private than if it was public; **parents in Chile have voted with their children's feet in favour of the private sector**. The private sector's efficiency is one reason why it does well at providing access to education. Another is its speed: in fast-growing cities, governments struggle to provide schools, but wherever there are people, schools spring up. (+1, -0.25)

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What does the author mean by the line '**parents in Chile have voted with their children's feet in favour of the private sector**'?

- a. Parents in Chile gave favourable ratings to public schools over private ones.

- b. Parents in Chile gave the best ratings to public schools.
- c. Parents in Chile gave favourable ratings to private schools over public ones.
- d. Parents in Chile gave the worst ratings to public schools.
- e. Parents in Chile gave favourable ratings to public schools over all others.

16. Parents prefer private schools. A global survey in 2017 found that they were a lot more likely to give the teaching at their children's school a positive rating if it was private than if it was public; **parents in Chile have voted with their children's feet in favour of the private sector**. The private sector's efficiency is one reason why it does well at providing access to education. Another is its speed: in fast-growing cities, governments struggle to provide schools, but wherever there are people, schools spring up. (+1, -0.25)

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Why does the author mention the Netherlands?

- a. As an example of a well-designed public-private partnership in education that can work.
- b. As an example of a well-designed public-private partnership in education that cannot work.
- c. As an example of a debate about the public-private partnership in education.
- d. As an example of a the disadvantages of the public-private partnership in education.
- e. As an example of a the problems of the public-private partnership in education.

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17. Parents prefer private schools. A global survey in 2017 found that they were a lot more likely to give the teaching at their children's school a positive rating if it was private than if it was public; **parents in Chile have voted with their children's feet in favour of the private sector**. The private sector's efficiency is one reason why it does well at providing access to education. Another is its speed: in fast-growing cities, governments struggle to provide schools, but wherever there are people, schools spring up. (+1, -0.25)

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What is the author trying to convey through the passage?

- a. To not compare the public schooling sector with the private one.
- b. To show the disadvantages of the public schooling sector.
- c. To show the disadvantages of the private schooling sector.
- d. To show that a public-private partnership in schools can work.
- e. To show that a public-private partnership in schools cannot work.

-
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Which of the words can explain the meaning of the word **good** in the passage?

- a. Advantageous
- b. Efficient
- c. Productive
- d. All of these.
- e. None of these.

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Which of the following words are similar in meaning to **cede** in the passage?

- a. Relinquish
- b. Yield
- c. Surrender
- d. None of these.
- e. All of these.

-
20. Parents prefer private schools. A global survey in 2017 found that they were a lot more likely to give the teaching at their children's school a positive rating if it was private than if it was public; **parents in Chile have voted with their children's feet in favour of the private sector**. The private sector's efficiency is one reason why it does well at providing access to education. Another is its speed: in fast-growing cities, governments struggle to provide schools, but wherever there are people, schools spring up. (+1, -0.25)

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What is the main reason for the private sector's superior efficiency?

- a. The efficiency of the teachers.
- b. The power of the teachers' unions.
- c. The high fees charged by the private schools.
- d. The higher level of education provided by the private schools.
- e. The faith of the parents and the popularity of the private schools.

-
21. In the following sentence, a part of the sentence is **emboldened**. Below are given alternatives to the **emboldened part**, which may improve the sentence. Choose the correct alternative. In case no improvement is needed, choose the alternative that indicates 'No improvement.'

Acting in front of the camera **is easy** acting on the stage, as there is no audience.

- a. Ease than
- b. Is easier than
- c. Are easy
- d. Will be easier
- e. No improvement

22. In the following sentence, a part of the sentence is emboldened. Below are given alternatives to the emboldened part, which may improve the sentence. Choose the correct alternative. In case no improvement is needed, choose the alternative that indicates 'No improvement.' (+1, -0.25)

The municipality has decided to collect dry and wet waste **separate as** every housing society.

- a. Separately from
- b. Separate in
- c. In separation
- d. Separate
- e. No improvement

23. In the following sentence, a part of the sentence is emboldened. Below are given alternatives to the emboldened part, which may improve the sentence. Choose the correct alternative. In case no improvement is needed, choose the alternative that indicates 'No improvement.' (+1, -0.25)

Though low inflation **helps keep** prices of commodities low, it can create unemployment.

- a. No improvement
- b. Does not help
- c. Holds to keep
- d. Protects
- e. Help to keeps

-
24. In the following sentence, a part of the sentence is emboldened. Below are given alternatives to the emboldened part, which may improve the sentence. Choose the correct alternative. In case no improvement is needed, choose the alternative that indicates 'No improvement.' (+1, -0.25)

As an institute, **we created qualify** professionals for a highly globalized and digital-driven world.

- a. No improvement
- b. We train qualified
- c. Qualified
- d. Creating quality
- e. Qualified training

-
25. In the following sentence, a part of the sentence is emboldened. Below are given alternatives to the emboldened part, which may improve the sentence. Choose the correct alternative. In case no improvement is needed, choose the alternative that indicates 'No improvement.' (+1, -0.25)

Apart from providing "clean" electricity, the nuclear plant **will providing** clean drinking water to every household in the area

- a. Have provide
- b. Also provides
- c. Provide
- d. No improvement
- e. Had provide

26. Fill in the blank with the correct word.

(+1, -0.25)

The bulletproof vest _____ the young police officer's life by stopping the bullet from passing through the vest.

- a. Saved
- b. Dignified
- c. Protect
- d. Stopped
- e. Deleted

27. Fill in the blank with the appropriate option.

(+1, -0.25)

Although the medicine was once thought safe, _____ data has proven it to be harmful to children.

- a. Productive
- b. Procreate
- c. Recent

d. Individual

e. Plain

28. Fill in the blank with the appropriate option. (+1, -0.25)

In every workforce, there will be some people more _____ and thus better paid than others.

a. Capable

b. Lazy

c. Guard

d. Human

e. Monetary

29. Fill in the blank with the appropriate option. (+1, -0.25)

His competence as an economist had been _____ by his successful fight against inflation.

a. Capable

b. Tired

c. Prejudice

d. Proved

e. Disturbed

30. Fill in the blank with the appropriate option.

(+1, -0.25)

The headhunters faced problems in _____ suitably qualified scientific officers for national laboratories.

- a. Order
- b. Making
- c. Last
- d. Produce
- e. Recruiting

Prepp

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Numerical Ability

31. The ratio of the A's present age and B's age 4 years ago is 7 : 8. After 8 years, ratio of age of A to that of B is 9 : 11. Find the present age of B. (+1, -0.25)
- a. 36 years
 - b. 23 years
 - c. 24 years
 - d. 25 years
 - e. 26 years
-
32. In a 170 lt mixture of milk and water the ratio of milk and water is 12 : 5. If 20% of the mixture was taken out and 10 liters of water is added. Find the quantity of water in the new mixture. (+1, -0.25)
- a. 60 litres
 - b. 50 litres
 - c. 70 litres
 - d. 80 litres
 - e. 90 litres
-
33. The cost price of A is double the cost price of B. If the selling price of B is Rs. 3600 and the profit percentage is 20% then find the cost price of A. (+1, -0.25)
- a. 3600
 - b. 4200

- c. 6000
 - d. 6500
 - e. 7500
-

34. 144 added to 40% of a number results in 188. Find the number. (+1, -0.25)

- a. 115
 - b. 125
 - c. 110
 - d. 135
 - e. 120
-

35. A sum of Rs. X was invested in a scheme at the rate of 10% calculated on simple interest for 3 years and the amount received is further invested into another scheme for 2 years at a rate of 20% compounded annually. If the final amount received is Rs. 12168, then find the value of X. (+1, -0.25)

- a. 4500
 - b. 6500
 - c. 2500
 - d. 5500
 - e. 3500
-

36. Find out the approximate value which should replace the question mark (?) in the following question. (+1, -0.25)

$$1/7.99 + 1/11.96 - 1/3.94 + 1/? = 0$$

- a. 24
- b. 26
- c. 34
- d. 36
- e. 44

-
37. Find out the approximate value which should replace the question mark (?) in the following question. (+1, -0.25)

$$39.96\% \text{ of } (198.99 + 5.99^2) = ?$$

- a. 94
- b. 96
- c. 95
- d. 97
- e. 99

-
38. Find out the approximate value which should replace the question mark (?) in the following question. (+1, -0.25)

$$17.01 + 23.04 - 48.01 \div \sqrt{4.03} = ?^2$$

- a. 16
- b. 2
- c. 4
- d. 6
- e. 8

39. Find out the approximate value which should replace the question mark (?) in the following question. (+1, -0.25)

$$23.02 - 13.19 \times \sqrt{9.09} + 200.02 = ?$$

- a. 230
- b. 184
- c. 260
- d. 360
- e. 300

40. Find out the approximate value which should replace the question mark (?) in the following question. (+1, -0.25)

$$4.03 \times (6.02)^2 - \sqrt{120.89} + \sqrt{144.06} = ?$$

- a. 125
- b. 135
- c. 145

d. 148

e. 150

-
41. Find out the approximate value which should replace the question mark (?) in the following question. (+1, -0.25)

$$8.02 - (? - 9.01) + (10.92)^2 = 120$$

a. 3

b. -3

c. 18

d. 5

e. 2

-
42. A started a business with the investment of Rs. 8000. After 4 months, B joins him with the capital of Rs. 10000. After 8 months of starting the business, C also joins him with the capital of Rs. 15000. Find the share of C in the profit of Rs. 118000 after 1 year. (+1, -0.25)

a. 2000

b. 15000

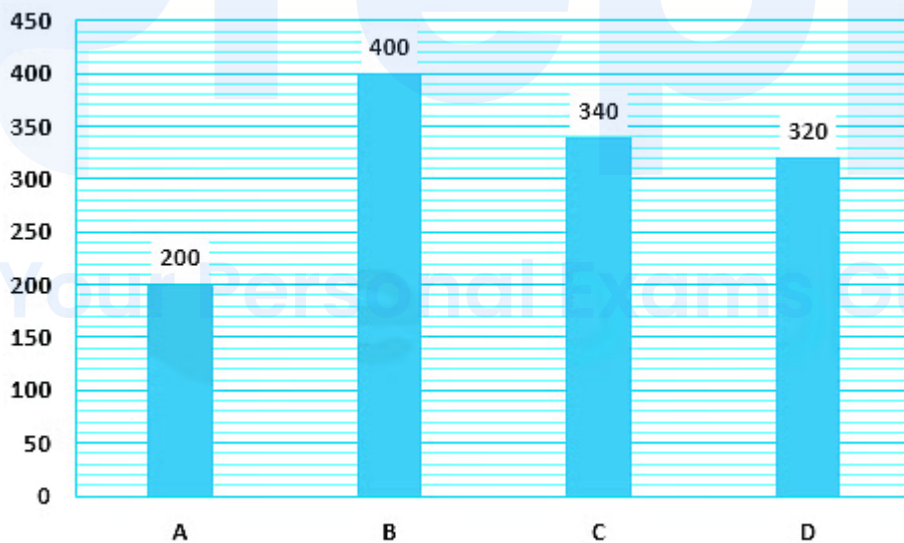
c. 35000

d. 26000

e. 30000

43. The cost of gardening a circular field C at the rate of 10 Rs./m² is Rs. 3465. (+1, -0.25)
The side of square S is equal to the diameter of the circle C. Find the perimeter of the square S.
- a. 76
 - b. 92
 - c. 84
 - d. 68
 - e. 65

44. Direction: The given bar graph shows the number of workers in a factory. (+1, -0.25)

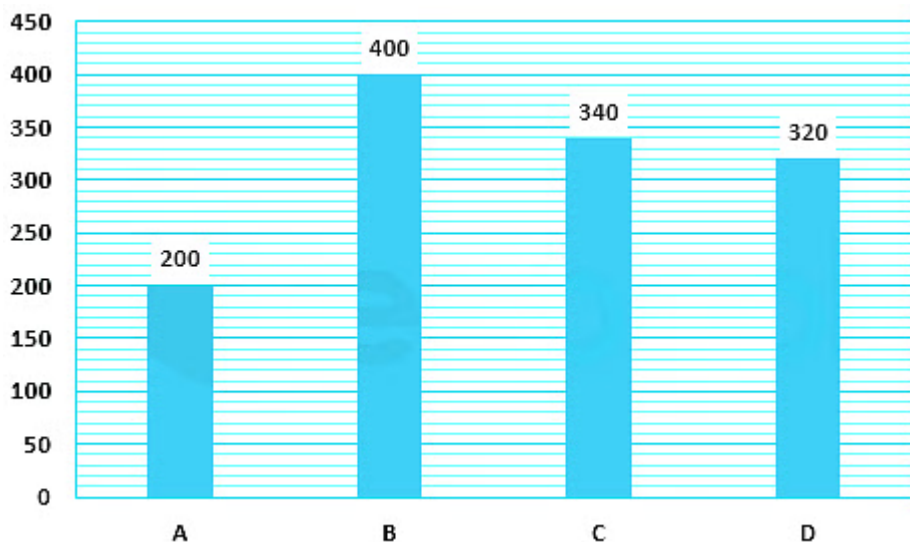


	Above the age of 40 years
A	50
B	70
C	110
D	120

If 40% of the total number of workers in a factory A and C together are females and 20% of the number of workers in a factory B are males. Find the total females in factory A, B and C together.

- a. 510
- b. 448
- c. 536
- d. 400
- e. 356

45. **Direction:** The given bar graph shows the number of workers in a factory. (+1, -0.25)



	Above the age of 40 years
A	50
B	70
C	110
D	120

If the total number of males and females in a new factory E is 20% more than the total number of males and females in factory D and the ratio of the number of males and females in factory E is 7 : 5. Find the number of females in factory E.

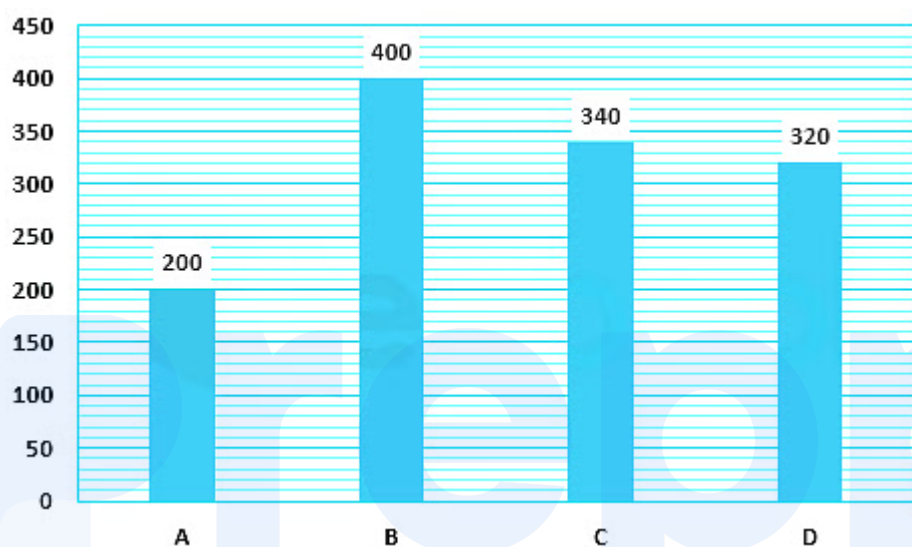
- 220
- 224

c. 180

d. 160

e. 240

46. **Direction:** The given bar graph shows the number of workers in a factory. (+1, -0.25)

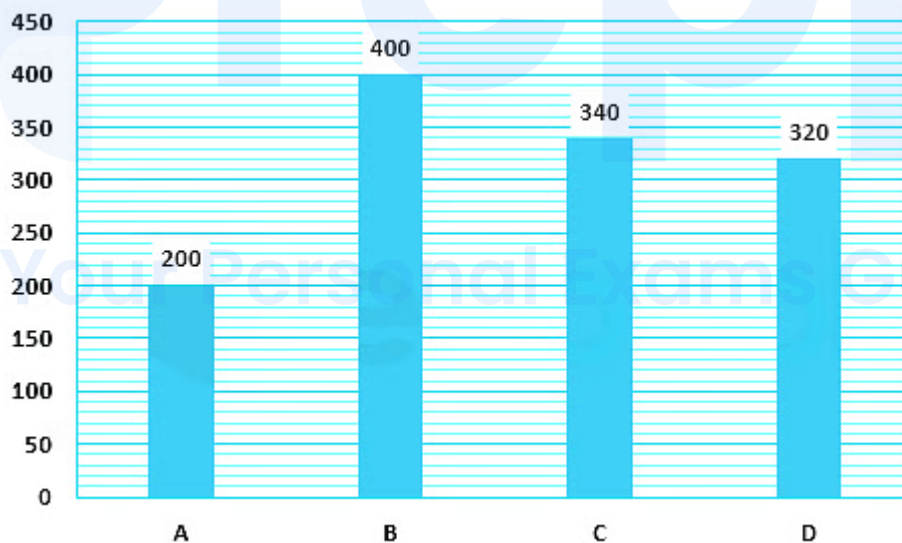


	Above the age of 40 years
A	50
B	70
C	110
D	120

If 60% of the workers above 40 years in factory A and C together and 50% of the workers above 40 years in factory B and D together is females then find the ratio of the number of males in factory A and C to factory B and D together who were above 40 years of age.

- a. 75 : 83
- b. 29 : 55
- c. 64 : 95
- d. 38 : 59
- e. 67 : 85

47. **Direction:** The given bar graph shows the number of workers in a factory. (+1, -0.25)

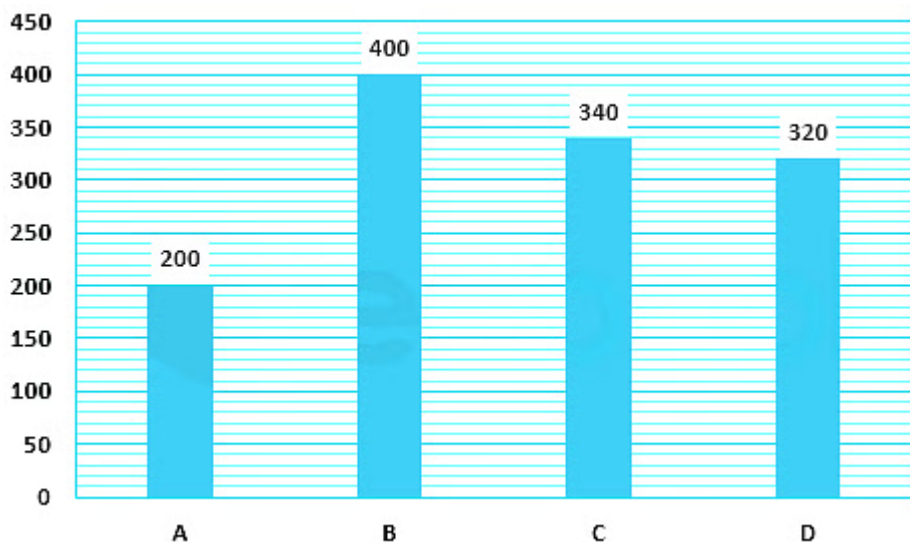


	Above the age of 40 years
A	50
B	70
C	110
D	120

In factory C, the number of males above 40 years of age is 30 and in factory A, the number of males above 40 years is 30. Find female workers above the age of 40 in factory C is how much percent more/less than the number of female workers above the age of 40 in factory A?

- a. 300%
- b. 400%
- c. 150%
- d. 200%
- e. 600%

48. **Direction:** The given bar graph shows the number of workers in a factory. (+1, -0.25)



	Above the age of 40 years
A	50
B	70
C	110
D	120

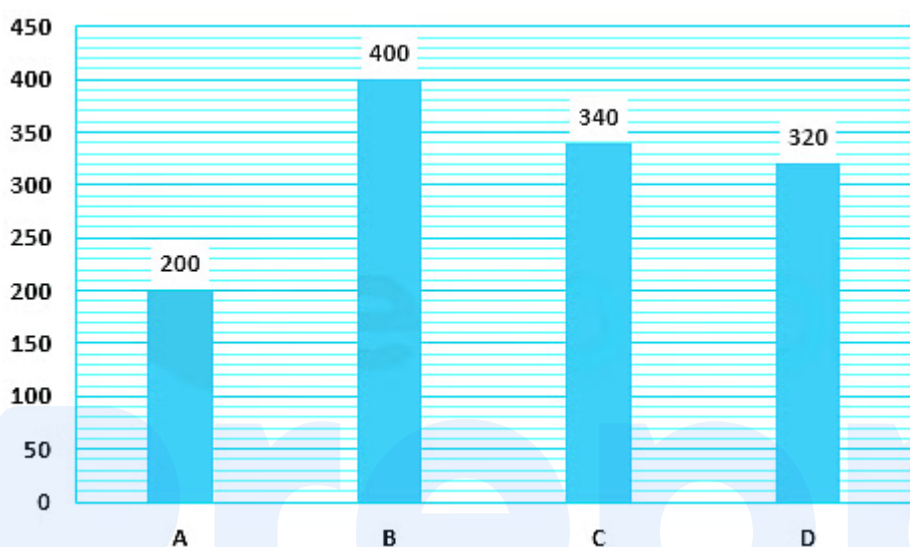
If the total number of females above 40 years in all the factories is 20% then what will be the average number of female workers above 40 years in all the factories?

- a. 17.1
- b. 17.2
- c. 17.5

d. 17.8

e. 17

49. **Direction:** The given bar graph shows the number of workers in a factory. (+1, -0.25)

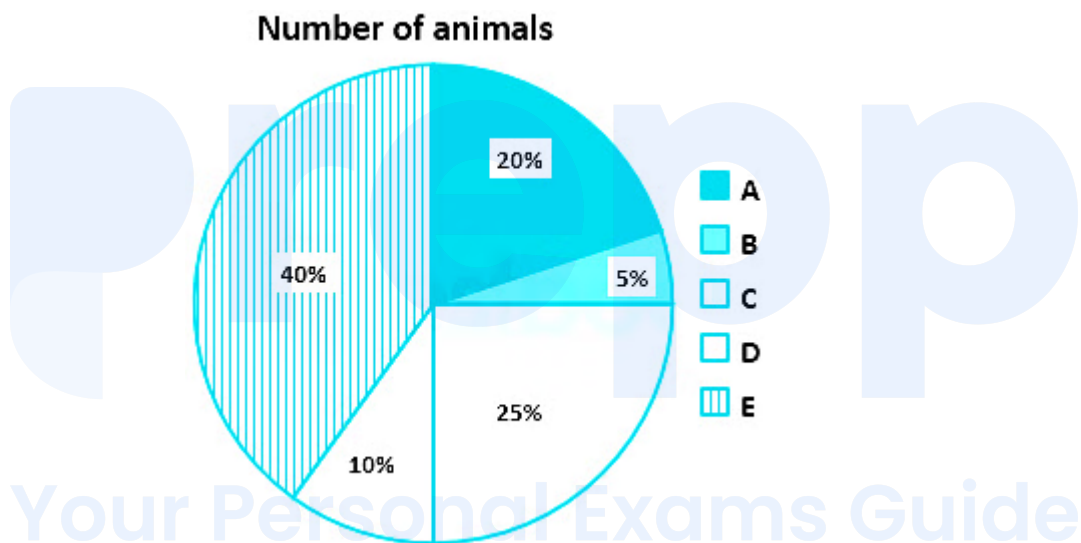


	Above the age of 40 years	
A	50	
B	70	
C	110	
D	120	

Find the total number of workers in all the factories whose age is below 40 years.

- a. 840
- b. 860
- c. 910
- d. 915
- e. 925

50. Direction: The given pie chart shows the distribution of 5000 animals in 5 different forests. (+1, -0.25)



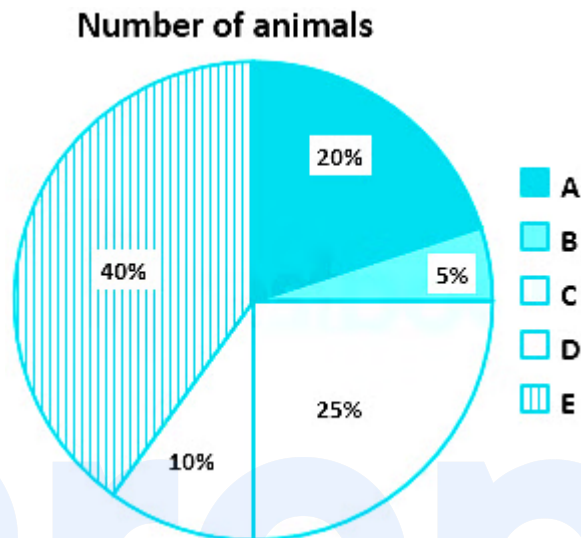
Note: The animals are of 3 types: 1. Herbivores 2. Carnivores 3. Omnivores

Find the ratio of the number of animals in the forest A and B together to the number of animals in the forest D and E together.

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

e. 5 : 6

51. Direction: The given pie chart shows the distribution of 5000 animals in 5 different forests. (+1, -0.25)

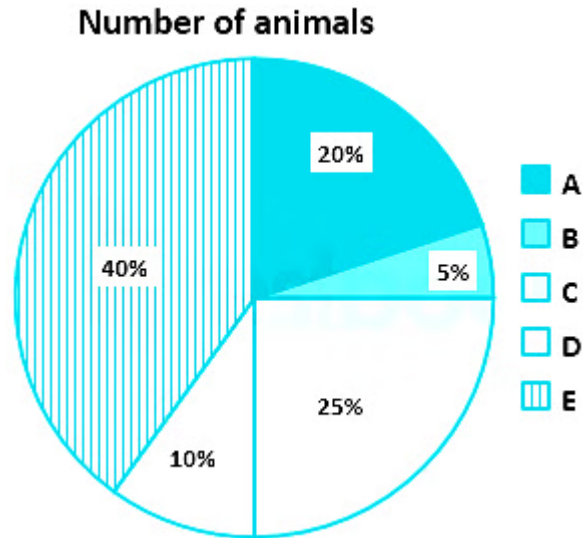


Note: The animals are of 3 types: 1. Herbivores 2. Carnivores 3. Omnivores

If the number of herbivores animals in forest E is half of the carnivores animals in the same forest and equal to the number of omnivores animals in the same forest then find the number of herbivores animals in forest E.

- a. 500
- b. 200
- c. 300
- d. 400
- e. 600

52. Direction: The given pie chart shows the distribution of 5000 animals in 5 different forests. (+1, -0.25)

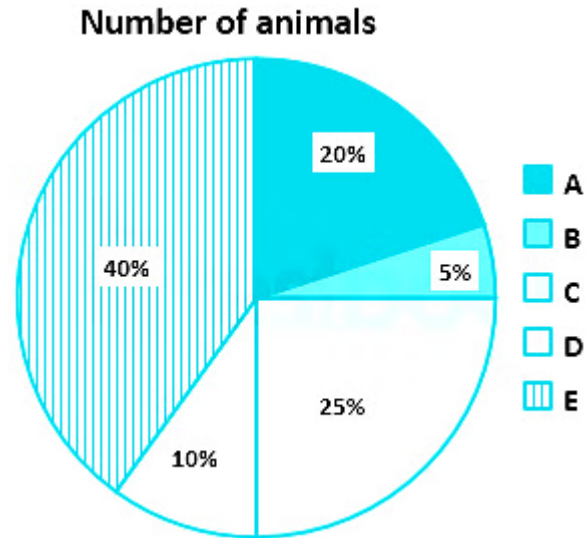


Note: The animals are of 3 types: 1. Herbivores 2. Carnivores 3. Omnivores

If total number of carnivores animals in all the forest is 10%. Then find the average number of carnivores animals in all the forest.

- a. 100
- b. 200
- c. 30
- d. 40
- e. 56

53. Direction: The given pie chart shows the distribution of 5000 animals in 5 different forests. (+1, -0.25)

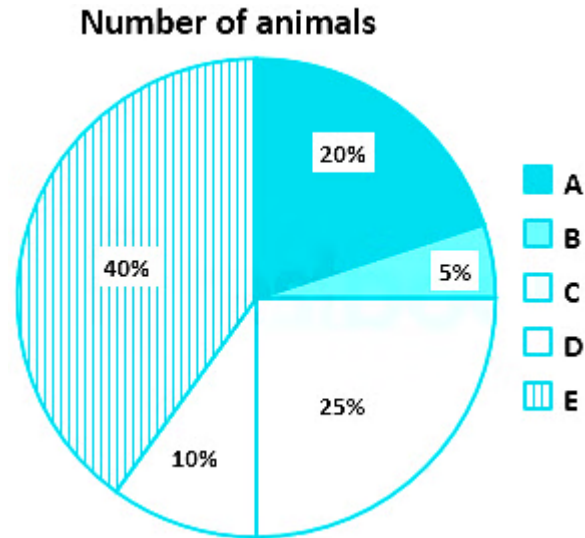


Note: The animals are of 3 types: 1. Herbivores 2. Carnivores 3. Omnivores

If 25% of the animals in forest A is omnivores. Then the number of omnivores animals in the forest A is what percent of the total number of animals in the forest D?

- a. 16%
- b. 20%
- c. 36%
- d. 40%
- e. 50%

54. Direction: The given pie chart shows the distribution of 5000 animals in 5 different forests. (+1, -0.25)



Note: The animals are of 3 types: 1. Herbivores 2. Carnivores 3. Omnivores

The total number of animals in the forest A, B and C together is what percent more or less than the total number of animals in the forest D and E together?

- a. 10%
- b. 20%
- c. 32%
- d. 0%
- e. 5%

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

18, 26, 53, 117, 242, ?

- a. 458
- b. 216
- c. 518

d. 468

e. 478

56. Find the missing number in the series

(+1, -0.25)

100, 108, 98, 106, 96, ?

a. 104

b. 107

c. 108

d. 204

e. 114

57. Find the missing number in the series

(+1, -0.25)

2, 1, 1, 1.5, 3, ?

a. 5.5

b. 6.5

c. 7.5

d. 6

e. 7

58. Find the missing number in the series

(+1, -0.25)

18, 24, 36, 56, 86, ?

- a. 128
- b. 256
- c. 156
- d. 144
- e. 196

59. Find the missing number in the series

(+1, -0.25)

1, 11, 99, 693, 3465, ?

- a. 8946
- b. 11296
- c. 10395
- d. 12974
- e. 10296

Your Personal Exams Guide

60. **Directions:** There are 3500 employees in a company working in three departments namely, Production, Marketing and Accounts. The ratio of male to female employees is 13 : 7. 30% of the employees are in the Accounts department. 20% of the males are in the Production department. Number of female employees in the Production department are two third the number of employees in the Accounts department. The ratio of male and female employees in the Marketing department is 5 : 2.

(+1, -0.25)

What is the ratio of female to male in the Accounts department?

- a. 179 : 31

b. 31 : 179

c. 13 : 179

d. 179 : 13

e. 1 : 13

61. **Directions:** There are 3500 employees in a company working in three departments namely, Production, Marketing and Accounts. The ratio of male to female employees is 13 : 7. 30% of the employees are in the Accounts department. 20% of the males are in the Production department. Number of female employees in the Production department are two third the number of employees in the Accounts department. The ratio of male and female employees in the Marketing department is 5 : 2. (+1, -0.25)

What percentage of male employees work in the Accounts department?

a. 40

b. 34.39

c. 39.34

d. 49.34

e. 43.39

62. **Directions:** There are 3500 employees in a company working in three departments namely, Production, Marketing and Accounts. The ratio of male to female employees is 13 : 7. 30% of the employees are in the Accounts department. 20% of the males are in the Production department. Number of female employees in the Production department are two third the number of employees in the Accounts department. The ratio of male and female employees in the Marketing department is 5 : 2. (+1, -0.25)

What is the number of female employees in the Production department?

- a. 1050
- b. 700
- c. 350
- d. 530
- e. 735

-
- 63. Directions:** There are 3500 employees in a company working in three departments namely, Production, Marketing and Accounts. The ratio of male to female employees is 13 : 7. 30% of the employees are in the Accounts department. 20% of the males are in the Production department. Number of female employees in the Production department are two third the number of employees in the Accounts department. The ratio of male and female employees in the Marketing department is 5 : 2. (+1, -0.25)

What is the difference between the no. males in the Marketing department and the Production department?

- a. 470
- b. 490
- c. 740
- d. 940
- e. 790

-
- 64.** A train crosses a platform having a length of 300 m in 30 seconds and a standing pole in 10 seconds. Calculate the length of the train in meters. (+1, -0.25)

- a. 85 m
- b. 220 m
- c. 150 m
- d. 200 m
- e. 110 m

65. In a set of 6 numbers, the average of first four is 10 and that of last four is $(+1, -0.25)$ 8. If the average of all the six numbers is 9, then find the average of the third and fourth number.

- a. 7
- b. 8
- c. 9
- d. 10
- e. 11

Prepp

Your Personal Exams Guide

Reasoning Ability

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

Eight people A, B, C, D, E, F, G and H are sitting around a circular table with equal distance between them. Some of them are facing the centre while others are facing outside (i.e. opposite to the centre).

H is an immediate neighbor of F. F faces the centre. Only three people sit between F and A. C sits third to the left of A. Immediate neighbors of C face the same direction (i.e. if one neighbor faces the centre than the other also faces the centre and vice versa). G sits to the immediate right of B. B is an immediate neighbor of H. D sits second to the left of G. Immediate neighbors of D faces opposite direction (i.e. if one neighbor faces the centre other faces outside the centre and vice-versa). E sits to the immediate left of C. Both D and H face a direction opposite to that of E (i.e. if E faces the centre then both D and H face outside the centre and vice versa).

Who among the following sits second to the left of H?

- a. C
- b. E
- c. G
- d. B
- e. None of these

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

Eight people A, B, C, D, E, F, G and H are sitting around a circular table with equal distance between them. Some of them are facing the centre while

others are facing outside (i.e. opposite to the centre).

H is an immediate neighbor of F. F faces the centre. Only three people sit between F and A. C sits third to the left of A. Immediate neighbors of C face the same direction (i.e. if one neighbor faces the centre than the other also faces the centre and vice versa). G sits to the immediate right of B. B is an immediate neighbor of H. D sits second to the left of G. Immediate neighbors of D faces opposite direction (i.e. if one neighbor faces the centre other faces outside the centre and vice-versa). E sits to the immediate left of C. Both D and H face a direction opposite to that of E (i.e. if E faces the centre then both D and H face outside the centre and vice versa).

Four of the following five pairs are alike in a certain and hence form a group. Which among the following does not belong to that group?

- a. AG.
- b. DB.
- c. CF.
- d. DH.
- e. BE

68. Direction: Study the information carefully and answer the given questions.

(+1, -0.25)

Eight people A, B, C, D, E, F, G and H are sitting around a circular table with equal distance between them. Some of them are facing the centre while others are facing outside (i.e. opposite to the centre).

H is an immediate neighbor of F. F faces the centre. Only three people sit between F and A. C sits third to the left of A. Immediate neighbors of C face the same direction (i.e. if one neighbor faces the centre than the

other also faces the centre and vice versa). G sits to the immediate right of B. B is an immediate neighbor of H. D sits second to the left of G. Immediate neighbors of D faces opposite direction (i.e. if one neighbor faces the centre other faces outside the centre and vice-versa). E sits to the immediate left of C. Both D and H face a direction opposite to that of E (i.e. if E faces the centre then both D and H face outside the centre and vice versa).

If D and B interchange their position, then which among the following sits second to the right of A as per the new arrangement?

- a. D
- b. B
- c. E
- d. C
- e. None of these

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

Eight people A, B, C, D, E, F, G and H are sitting around a circular table with equal distance between them. Some of them are facing the centre while others are facing outside (i.e. opposite to the centre).

H is an immediate neighbor of F. F faces the centre. Only three people sit between F and A. C sits third to the left of A. Immediate neighbors of C face the same direction (i.e. if one neighbor faces the centre than the other also faces the centre and vice versa). G sits to the immediate right of B. B is an immediate neighbor of H. D sits second to the left of G. Immediate neighbors of D faces opposite direction (i.e. if one neighbor faces the centre other faces outside the centre and vice-versa). E sits to the immediate left of C. Both D and H face a direction opposite to that of

E (i.e. if E faces the centre then both D and H face outside the centre and vice versa).

How many persons sit between E and F when counted from the left of E?

- a. One
- b. Four
- c. Three
- d. None of these
- e. Five

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

Eight people A, B, C, D, E, F, G and H are sitting around a circular table with equal distance between them. Some of them are facing the centre while others are facing outside (i.e. opposite to the centre).

H is an immediate neighbor of F. F faces the centre. Only three people sit between F and A. C sits third to the left of A. Immediate neighbors of C face the same direction (i.e. if one neighbor faces the centre than the other also faces the centre and vice versa). G sits to the immediate right of B. B is an immediate neighbor of H. D sits second to the left of G.

Immediate neighbors of D faces opposite direction (i.e. if one neighbor faces the centre other faces outside the centre and vice-versa). E sits to the immediate left of C. Both D and H face a direction opposite to that of E (i.e. if E faces the centre then both D and H face outside the centre and vice versa).

What is the position of A with respect to G?

- a. Immediate Right

- b. Third to the Right
 - c. Third to the Left
 - d. Immediate Left
 - e. Second to the Left
-

71. **Direction:** In the question below are given two statements 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 with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts. (+1, -0.25)

Statement:

No apple is gloves.

All boats are apple.

All radios are boat.

Conclusion:

I. At least some apples are boats.

II. All gloves are radios.

- 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
-

- 72. Direction:** In the question below are given three statements 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 with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts. (+1, -0.25)

Statements:

Only a few wines are cashews.

Few bottles are wines.

No dot is cashew.

Conclusion:

- I. At least some wines are dots.
II. All cashews being bottles is a possibility.

- 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

- 73. Direction:** In the question below are given two statements 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 with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts. (+1, -0.25)

Statements:

All grains are band.

All poets are band.

No band is a lubricant.

Conclusion:

I. All bands being grain is a possibility.

II. No poet is a lubricant.

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

-
74. **Direction:** In the question below are given three statements 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 with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts. (+1, -0.25)

Statement:

Only a few circles are Dollars.

Some Dollars are Soaps.

No rectangle is a circle.

Conclusion:

I. All circles being rectangles is a possibility.

II. Some rectangles are definitely not soaps.

- 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

75. Direction: Read the information carefully and answer the questions asked below. (+1, -0.25)

Karthik is at point H and is facing towards East. He started walking from point H and walked 60 m to reach a point Z. From Z he has taken a right turn and walked 54 m to reach W, and again taken a left turn and walked 50 m to reach point S. Arjun started from point F and walked 30 m towards West direction to reach point G. From G he takes a left turn and walked 54 m to reach point S.

What is the distance between H and F?

- a. 118 m
- b. 110 m
- c. 150 m
- d. 140 m
- e. 120 m

76. **Direction:** Read the information carefully and answer the questions asked below. (+1, -0.25)

Karthik is at point H and is facing towards East. He started walking from point H and walked 60 m to reach a point Z. From Z he has taken a right turn and walked 54 m to reach W, and again taken a left turn and walked 50 m to reach point S. Arjun started from point F and walked 30 m towards West direction to reach point G. From G he takes a left turn and walked 54 m to reach point S.

In which direction is point W with respect to point G?

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

77. **Direction:** Read the information carefully and answer the questions asked below. (+1, -0.25)

Karthik is at point H and is facing towards East. He started walking from point H and walked 60 m to reach a point Z. From Z he has taken a right turn and walked 54 m to reach W, and again taken a left turn and walked 50 m to reach point S. Arjun started from point F and walked 30 m towards West direction to reach point G. From G he takes a left turn and walked 54 m to reach point S.

Four of the following five are alike in a certain way, which among the following does not belong to the group?

- a. Z
- b. F
- c. W
- d. G
- e. H

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

Ten people are sitting in a straight line facing North with equal distance between each other.

Only 3 people sit to the left of M. Only one person sits between M and R. P sits third to the right of R. As many people sit to the right of P as to the left of Q. Only three people sit between Q and S. U is an immediate neighbor of S. T sits second to the left of W. N sits to the immediate right of V.

How many people sit between N and R?

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

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

Ten people are sitting in a straight line facing North with equal distance between each other.

Only 3 people sit to the left of M. Only one person sits between M and R. P sits third to the right of R. As many people sit to the right of P as to the left of Q. Only three people sit between Q and S. U is an immediate neighbor of S. T sits second to the left of W. N sits to the immediate right of V.

Who sits second to the right of Q?

- a. W
- b. R
- c. M
- d. T
- e. N

80. Direction: Study the following information carefully and answer the questions given below.

(+1, -0.25)

Ten people are sitting in a straight line facing North with equal distance between each other.

Only 3 people sit to the left of M. Only one person sits between M and R. P sits third to the right of R. As many people sit to the right of P as to the left of Q. Only three people sit between Q and S. U is an immediate neighbor of S. T sits second to the left of W. N sits to the immediate right of V.

Which of the following pairs represents persons seated at the two extreme ends of the line?

- a. QW
- b. ST

c. TQ

d. UN

e. WS

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

Ten people are sitting in a straight line facing North with equal distance between each other.

Only 3 people sit to the left of M. Only one person sits between M and R. P sits third to the right of R. As many people sit to the right of P as to the left of Q. Only three people sit between Q and S. U is an immediate neighbor of S. T sits second to the left of W. N sits to the immediate right of V.

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

a. SP

b. UV

c. WT

d. MR

e. VP

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

Ten people are sitting in a straight line facing North with equal distance between each other.

Only 3 people sit to the left of M. Only one person sits between M and R. P sits third to the right of R. As many people sit to the right of P as to the left of Q. Only three people sit between Q and S. U is an immediate neighbor of S. T sits second to the left of W. N sits to the immediate right of V.

Which of the following statement is definitely true?

- a. Two people sit between V and W
- b. V sits 3rd to the right of S
- c. M sits at extreme left end
- d. None of the given statement is true
- e. P sits immediate left of Q

83. How many pairs of letters are there in the word "MERCHANT" which has as many letters between them as in the English alphabetical series? (in both forward and backward direction) (+1, -0.25)

- a. Two
- b. Three
- c. Four
- d. More than four
- e. One

84. In a word "MODELLING", if all letters are arranged in the alphabetical order, and then the vowels are changed to the previous letter and the consonants are changed to the next letter as per the English alphabetical series, then how many letters do not repeat more than once? (+1, -0.25)

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

85. Directions: Study the following information and answer the given questions: (+1, -0.25)

There are six people A, B, C, D, E, and F of different heights. A is taller than D and C. B is taller than A but shorter than E. C is not the shortest person. D is shorter than only three-person. The third tallest person has 115cm height.

Who is the tallest?

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

86. Directions: Study the following information and answer the given questions: (+1, -0.25)

There are six people A, B, C, D, E, and F of different heights. A is taller than D and C. B is taller than A but shorter than E. C is not the shortest person.

D is shorter than only three-person. The third tallest person has 115cm height.

If the height of A and E is 235cm and the height of A and D is 220cm, then what is the height of E ?

- a. 80
- b. 120
- c. 85
- d. 95
- e. 100

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

A, B, C, D, E, F, G, and H live on 8 different floors of 8 storey building. The lower most floor is numbered 1. The one above it, is numbered 2. Going on like this, the topmost floor is numbered 8. One person lives on each floor.

B lives on an odd-numbered floor above floor 3. Two people live between B and C. Three people live between C and D. The number of people who live below C is equal to the number of people who live above A. F lives on two floors above C. G lives on one of the floors below E and H lives on one of the floors above both G & E. A lives on one of the floors above D.

Four of the following five are alike in a certain way and hence they form a group, which one of the following does not belong to the group?

- a. GE
- b. DH
- c. EB

d. CD

e. FD

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

A, B, C, D, E, F, G, and H live on 8 different floors of 8 storey building. The lower most floor is numbered 1. The one above it, is numbered 2. Going on like this, the topmost floor is numbered 8. One person lives on each floor.

B lives on an odd-numbered floor above floor 3. Two people live between B and C. Three people live between C and D. The number of people who live below C is equal to the number of people who live above A. F lives on two floors above C. G lives on one of the floors below E and H lives on one of the floors above both G & E. A lives on one of the floors above D.

On which of the following floors A lives?

a. 2nd

b. 7th

c. 4th

d. 1st

e. None of these

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

A, B, C, D, E, F, G, and H live on 8 different floors of 8 storey building. The lower most floor is numbered 1. The one above it, is numbered 2. Going on like this, the topmost floor is numbered 8. One person lives on each floor.

B lives on an odd-numbered floor above floor 3. Two people live between B and C. Three people live between C and D. The number of people who live below C is equal to the number of people who live above A. F lives on two floors above C. G lives on one of the floors below E and H lives on one of the floors above both G & E. A lives on one of the floors above D.

Which of the following statements is not correct?

- a. H lives on the topmost floor
- b. G lives immediately below C
- c. D lives on the even numbered floor
- d. All of the above are correct
- e. There are three people living between E and H

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

A, B, C, D, E, F, G, and H live on 8 different floors of 8 storey building. The lower most floor is numbered 1. The one above it, is numbered 2. Going on like this, the topmost floor is numbered 8. One person lives on each floor.

B lives on an odd-numbered floor above floor 3. Two people live between B and C. Three people live between C and D. The number of people who live below C is equal to the number of people who live above A. F lives on two floors above C. G lives on one of the floors below E and H lives on one of the floors above both G & E. A lives on one of the floors above D.

Who lives immediately above F?

- a. H
- b. B

c. C

d. E

e. A

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

A, B, C, D, E, F, G, and H live on 8 different floors of 8 storey building. The lower most floor is numbered 1. The one above it, is numbered 2. Going on like this, the topmost floor is numbered 8. One person lives on each floor.

B lives on an odd-numbered floor above floor 3. Two people live between B and C. Three people live between C and D. The number of people who live below C is equal to the number of people who live above A. F lives on two floors above C. G lives on one of the floors below E and H lives on one of the floors above both G & E. A lives on one of the floors above D.

How many people live exactly between C and A?

a. 1

b. 3

c. 5

d. 4

e. 2

92. Which of the following would replace @ and # in the following expression so that 'N > Y' is definitely true? (+1, -0.25)

$$S \geq Z = R @ Y; A = Z \# B = N$$

a. $\geq, \geq$

b. $<, >$

c. $>, <$

d. $\leq, \geq$

e. $\geq, >$

93. In which of the following expressions will the expression ' $H < J$ ' will be definitely true? (+1, -0.25)

a. $G < H = I = J$

b. $H > G > I = J$

c. $J = I \geq G > H$

d. $H \geq G > I < J$

e. None of these

94. **Directions:** In the following question, how to place the symbols so that both the conditions, $A \leq T$ and $B < Z$, definitely hold true when all the expressions are considered together? (+1, -0.25)

$Z \text{ ---- } T \geq L; B \text{ ---- } T; P < A \text{ ---- } L$

a. $>, \leq, \leq$

b. $>, =, <$

c. $\leq, \leq, <$

d. $<, =, >$

e. $>, =, >$

95. Four of the following five are alike in a certain way and so form a group. (+1, -0.25)
Which is the one that does not belong to that group?

- a. DGIK
- b. ZWUS
- c. KNPR
- d. QTVX
- e. HKMO

96. Study the following information carefully and answer the questions given below. (+1, -0.25)

Six teachers A, B, C, D, E, and F are going to attend the meeting in a famous ground of Delhi, on different months viz. January, April and August but not necessarily in the same order. In each month, they will attend the meeting on dates 5th or 11th of the given month. Only one teacher will attend the meeting on these given dates. B will attend the meeting on 11th of any of the given month but before D. There is no one between C and D attending the meeting. Two teachers will attend the meeting between B and D. Two teachers will attend the meeting between A and F. Only one teacher will attend the meeting between F and C. C will attend the meeting in August.

Who among the following will attend the meeting on 5th January?

- a. D
- b. E
- c. F

- d. A
- e. None of these

97. Study the following information carefully and answer the questions given (+1, -0.25) below.

Six teachers A, B, C, D, E, and F are going to attend the meeting in a famous ground of Delhi, on different months viz. January, April and August but not necessarily in the same order. In each month, they will attend the meeting on dates 5th or 11th of the given month. Only one teacher will attend the meeting on these given dates. B will attend the meeting on 11th of any of the given month but before D. There is no one between C and D attending the meeting. Two teachers will attend the meeting between B and D. Two teachers will attend the meeting between A and F. Only one teacher will attend the meeting between F and C. C will attend the meeting in August.

How many teachers will attend meeting between E and D?

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

98. Study the following information carefully and answer the questions given (+1, -0.25) below.

Six teachers A, B, C, D, E, and F are going to attend the meeting in a famous ground of Delhi, on different months viz. January, April and August but not necessarily in the same order. In each month, they will

attend the meeting on dates 5th or 11th of the given month. Only one teacher will attend the meeting on these given dates. B will attend the meeting on 11th of any of the given month but before D. There is no one between C and D attending the meeting. Two teachers will attend the meeting between B and D. Two teachers will attend the meeting between A and F. Only one teacher will attend the meeting between F and C. C will attend the meeting in August.

Who among following will attend the meeting on 11th April?

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

99. Study the following information carefully and answer the questions given below. (+1, -0.25)

Six teachers A, B, C, D, E, and F are going to attend the meeting in a famous ground of Delhi, on different months viz. January, April and August but not necessarily in the same order. In each month, they will attend the meeting on dates 5th or 11th of the given month. Only one teacher will attend the meeting on these given dates. B will attend the meeting on 11th of any of the given month but before D. There is no one between C and D attending the meeting. Two teachers will attend the meeting between B and D. Two teachers will attend the meeting between A and F. Only one teacher will attend the meeting between F and C. C will attend the meeting in August.

How many teachers will attend the meeting after D?

- a. One
- b. Two
- c. Three
- d. No one
- e. Four

100. Study the following information carefully and answer the questions given (+1, -0.25) below.

Six teachers A, B, C, D, E, and F are going to attend the meeting in a famous ground of Delhi, on different months viz. January, April and August but not necessarily in the same order. In each month, they will attend the meeting on dates 5th or 11th of the given month. Only one teacher will attend the meeting on these given dates. B will attend the meeting on 11th of any of the given month but before D. There is no one between C and D attending the meeting. Two teachers will attend the meeting between B and D. Two teachers will attend the meeting between A and F. Only one teacher will attend the meeting between F and C. C will attend the meeting in August.

E attends the meeting on which of the following dates?

- a. 5th April
- b. 5th August
- c. 11th August
- d. 11th January
- e. None of these

Answers

1. Answer: b

Explanation:

The correct answer is B

★ Key Points

- Let's analyze the logical flow of the passage to ascertain the correct order of the sentences:
- A. Over the past year, perceptions of relative U.S. economic power have declined in many of America's key trading partners and allies: Since this statement talks about the 'past year',
- E. The trend can be seen in several European countries, where views about the economic balance of power have fluctuated in recent years: Since this statement talks about the 'trend' mentioned in statement A and also talks about how the perception has 'fluctuated' in European countries,
- B. Following the onset of the financial crisis nearly a decade ago, Europeans increasingly named China, rather than the U.S., as the world's leading economic power: Since this statement talks about what happened a decade (ten years) ago.
- D. But in recent years, as the American economy slowly recovered, the pendulum began to swing back in the direction of the U.S.: This statement not only talks about the 'recent years' but also starts with 'But', thus indicating a contrasting comparison.
- C. This year, however, the pattern has reversed itself again, and in countries such as Germany, the United Kingdom, and Spain, China is once more seen as occupying the top spot: Since this statement talks about the most recent time period, that is, 'this year', this should be the concluding sentence.

Thus the correct order of sentences is: Over the past year, perceptions of relative US economic power have declined in many of America's key trading partners and allies. The trend can be seen in several European countries, where views about the economic balance of power have fluctuated in recent years. following the onset of

the financial crisis nearly a decade ago, Europeans increasingly named China, rather than the US, as the world's leading economic power. But in recent years, as the American economy slowly recovered, the pendulum began to swing back in the direction of the US. This year, however, the pattern has reversed itself again, and in countries such as Germany, the United Kingdom, and Spain, China is once more seen as occupying the top spot.

2. Answer: a

Explanation:

The correct answer is A

★ Key Points

- Let's analyze the logical flow of the passage to ascertain the correct order of the sentences:
- **A.** Over the past year, perceptions of relative U.S. economic power have declined in many of America's key trading partners and allies: Since this statement talks about the 'past year',
- **E.** The trend can be seen in several European countries, where views about the economic balance of power have fluctuated in recent years: Since this statement talks about the 'trend' mentioned in statement A and also talks about how the perception has 'fluctuated' in European countries,
- **B.** Following the onset of the financial crisis nearly a decade ago, Europeans increasingly named China, rather than the U.S., as the world's leading economic power: Since this statement talks about what happened a decade (ten years) ago.
- **D.** But in recent years, as the American economy slowly recovered, the pendulum began to swing back in the direction of the U.S.: This statement not only talks about the 'recent years' but also starts with 'But', thus indicating a contrasting comparison.
- **C.** This year, however, the pattern has reversed itself again, and in countries such as Germany, the United Kingdom, and Spain, China is once more seen as

occupying the top spot: Since this statement talks about the most recent time period, that is, 'this year', this should be the concluding sentence.

Thus the correct order of sentences is: *Over the past year, perceptions of relative US economic power have declined in many of America's key trading partners and allies. The trend can be seen in several European countries, where views about the economic balance of power have fluctuated in recent years. following the onset of the financial crisis nearly a decade ago, Europeans increasingly named China, rather than the US, as the world's leading economic power. But in recent years, as the American economy slowly recovered, the pendulum began to swing back in the direction of the US. This year, however, the pattern has reversed itself again, and in countries such as Germany, the United Kingdom, and Spain, China is once more seen as occupying the top spot.*

3. Answer: e

Explanation:

The correct answer is E

★ Key Points

- Let's analyze the logical flow of the passage to ascertain the correct order of the sentences:
- A. Over the past year, perceptions of relative U.S. economic power have declined in many of America's key trading partners and allies: Since this statement talks about the 'past year',
- E. The trend can be seen in several European countries, where views about the economic balance of power have fluctuated in recent years: Since this statement talks about the 'trend' mentioned in statement A and also talks about how the perception has 'fluctuated' in European countries,
- B. Following the onset of the financial crisis nearly a decade ago, Europeans increasingly named China, rather than the U.S., as the world's leading economic power: Since this statement talks about what happened a decade (ten years) ago.

- D. But in recent years, as the American economy slowly recovered, the pendulum began to swing back in the direction of the U.S.: This statement not only talks about the 'recent years' but also starts with 'But', thus indicating a contrasting comparison.
- C. This year, however, the pattern has reversed itself again, and in countries such as Germany, the United Kingdom, and Spain, China is once more seen as occupying the top spot: Since this statement talks about the most recent time period, that is, 'this year', this should be the concluding sentence.

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4. Answer: c

Explanation:

The correct answer is C

★ Key Points

- Let's analyze the logical flow of the passage to ascertain the correct order of the sentences:
- A. Over the past year, perceptions of relative U.S. economic power have declined in many of America's key trading partners and allies: Since this statement talks about the 'past year',
- E. The trend can be seen in several European countries, where views about the economic balance of power have fluctuated in recent years: Since this

statement talks about the 'trend' mentioned in statement A and also talks about how the perception has 'fluctuated' in European countries,

- B. Following the onset of the financial crisis nearly a decade ago, Europeans increasingly named China, rather than the U.S., as the world's leading economic power: Since this statement talks about what happened a decade (ten years) ago.
- D. But in recent years, as the American economy slowly recovered, the pendulum began to swing back in the direction of the U.S.: This statement not only talks about the 'recent years' but also starts with 'But', thus indicating a contrasting comparison.
- C. This year, however, the pattern has reversed itself again, and in countries such as Germany, the United Kingdom, and Spain, China is once more seen as occupying the top spot: Since this statement talks about the most recent time period, that is, 'this year', this should be the concluding sentence.

Thus the correct order of sentences is: Over the past year, perceptions of relative US economic power have declined in many of America's key trading partners and allies. The trend can be seen in several European countries, where views about the economic balance of power have fluctuated in recent years. following the onset of the financial crisis nearly a decade ago, Europeans increasingly named China, rather than the US, as the world's leading economic power. But in recent years, as the American economy slowly recovered, the pendulum began to swing back in the direction of the US. This year, however, the pattern has reversed itself again, and in countries such as Germany, the United Kingdom, and Spain, China is once more seen as occupying the top spot.

5. Answer: d

Explanation:

The correct answer is D

★ Key Points

- Let's analyze the logical flow of the passage to ascertain the correct order of the sentences:
- A. Over the past year, perceptions of relative U.S. economic power have declined in many of America's key trading partners and allies: Since this statement talks about the 'past year',
- E. The trend can be seen in several European countries, where views about the economic balance of power have fluctuated in recent years: Since this statement talks about the 'trend' mentioned in statement A and also talks about how the perception has 'fluctuated' in European countries,
- B. Following the onset of the financial crisis nearly a decade ago, Europeans increasingly named China, rather than the U.S., as the world's leading economic power: Since this statement talks about what happened a decade (ten years) ago.
- D. But in recent years, as the American economy slowly recovered, the pendulum began to swing back in the direction of the U.S.: This statement not only talks about the 'recent years' but also starts with 'But', thus indicating a contrasting comparison.
- C. This year, however, the pattern has reversed itself again, and in countries such as Germany, the United Kingdom, and Spain, China is once more seen as occupying the top spot: Since this statement talks about the most recent time period, that is, 'this year', this should be the concluding sentence.

Thus the correct order of sentences is: Over the past year, perceptions of relative US economic power have declined in many of America's key trading partners and allies. The trend can be seen in several European countries, where views about the economic balance of power have fluctuated in recent years. following the onset of the financial crisis nearly a decade ago, Europeans increasingly named China, rather than the US, as the world's leading economic power. But in recent years, as the American economy slowly recovered, the pendulum began to swing back in the direction of the US. This year, however, the pattern has reversed itself again, and in countries such as Germany, the United Kingdom, and Spain, China is once more seen as occupying the top spot.

6. Answer: b

Explanation:

- The error is in **part 2** of the sentence.
- According to the '**Proximity rule**' of Subject-verb agreement, when a compound subject contains both a singular and a plural noun or pronoun joined by "or" or "nor," the verb should agree with the part of the subject that is closest to the verb. This is also called the rule of proximity.
- *Also, according to the same rule, Two singular nouns joined by 'with', 'as well as', 'in addition to', 'together' and 'besides' will have a singular verb as the number of verb is always decided on the basis of the primary subject in a sentence.*
- *In the above question sentence, 'Shooting' is considered to be the primary subject that is singular in number. 'Horse riding' is an addition to the 'Primary subject' i.e. 'Shooting'.*
- Thus, the error is in part 2 of the sentence as the **plural verb form 'are'** is **incorrect**. It should be the singular verb form 'is.'
 - *For example, Ram, as well as Shyam, **was** absent during the concert.*

Correct sentence: "Shooting as well as horse riding **is taught** to cadets at the National Defence Academy every morning."

7. Answer: b

Explanation:

The correct option is **option 2**

★ Key Points

- The error is in part 2 of the sentence.
- Words joined to a singular subject by 'with', 'as well as', etc., will accommodate the **singular verb**.
- '**The President**' is singular and is joined by 'along with'. Therefore, **the verb should be singular**.
- Thus, the error is in part 2 of the sentence as the plural verb form 'are' is incorrect. It should be '**is**'.

- For example: *The newly elected Prime Minister along with his Ministers is keen to reform the economy.*
- Hence the correct answer is option 2.

The correct sentence is: *"The President, along with several international guests, **is to be present** during the swearing-in ceremony of the new government."*

8. Answer: e

Explanation:

The correct answer is- 'error lies in the part-5'

★ Key Points

- There is **no error** in the given question. It is structured correctly.
- The correct adjective 'environmental' has been used here which qualifies the noun 'quality'

The correct sentence is- *India has a long way to go to reach environmental quality similar to that enjoyed in developed economies*

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9. Answer: a

Explanation:

The error lies in 1 as the word 'further' means 'more' and it makes no sense here.

The correct word here is the preposition 'beyond' which means that stories take us far away from reality.

The correct sentence is:-

*Stories are all about going **beyond reality** and it is no wonder that they let you understand big concepts with only a little bit of reading practice.*

Hence the correct answer is option 1.

10. Answer: b

Explanation:

The error lies in 2 as the word 'who' is incorrect here. It is used to introduce a clause giving further information about a person or people previously mentioned. The correct word here is 'which' which goes with the word 'character'.

The correct sentence:

*Who wouldn't love to chat about **which** character is their favorite, or predict what will happen in a suspense story they are reading?*

Hence the correct answer is option 2.

11. Answer: d

Explanation:

The error lies in 4 as the word 'grown' is incorrect here.

'Grown up' means 'a person who is an adult.' The correct word here should be 'gone' which means 'increase.'

The correct sentence is:-

*Over the last few decades, the exploitation of our planet and the degradation of our environment have **gone up** at an alarming rate.*

Hence option 4 is the correct answer.

12. Answer: b

Explanation:

The error lies in part 2 as the preposition 'of' is missing after the word 'introduction'. The preposition is mandatory here as it means 'the action of introducing something.'

Correct sentence:

*In June the Swedish medical company Elekta announced the introduction **of** Watson for Oncology, a medical AI system developed by IBM in the United States .*

Option 2 is the correct answer.

13. Answer: d

Explanation:

The author, through the passage, is trying to explain the problems that exist in the public schooling system as compared to the private sector. According to the passage, the public-private partnerships in education can be really fruitful. The example of public-private partnerships in the Netherlands and Hong Kong has been provided to support this argument.

Hence, the correct answer is option 4.

14. Answer: e

Explanation:

The answer to this question is provided in the lines: *Parents prefer private schools. A global survey in 2017 found that they were a lot more likely to give the teaching at their children's school a positive rating if it was private than if it was public; parents in Chile have voted with their children's feet in favour of the private sector.*

Therefore, private schools have a more positive rating among parents as compared to public schools .

Hence option 5 is the correct answer.

15. Answer: c

Explanation:

The line ' parents in Chile have voted with their children's feet in favour of the private sector ' means that 'Parents in Chile gave favourable ratings to private schools over public ones.'

Hence option 3 is the correct answer.

16. Answer: a

Explanation:

The answer to this question is in the in the lines: *Yet well-designed public-private partnerships can work. Two of the world's best education systems—those of the Netherlands and Hong Kong—are based on them.*

Hence the correct answer is option 1.

17. Answer: d

Explanation:

From a close reading of the passage, it becomes clear that the main objective of the author in the passage is to show that *a public-private partnership in schools can work.*

Hence the correct answer is option 4.

18. Answer: d

Explanation:

The lines in which the word **good** appears are: *But some are entirely in order: governments need to promote quality, access to schooling and equity. The private sector is good at some, but not all, of those.*

Here, **good** refers to the private sector being **advantageous**, **efficient**, and **productive** in some of the things (out of providing quality, access to schooling and equity), but not all.

Therefore, the correct answer is option 4.

19. Answer: e

Explanation:

Relinquish, Yield, and Surrender all mean the same as **cede**, which is to voluntarily cease to keep or claim; give up.

Hence the correct answer is option 5.

20. Answer: a

Explanation:

The answer to this questions is given in the following lines of the passage: *The main reason for the private sector's superior efficiency seems to be teachers, who are paid less and are more likely to turn up for work than at government schools.*

Hence the correct answer is option 1.

21. Answer: b

Explanation:

Correct option: 2.

The sentence requires a comparative formation because it compares two things.

Hence, correct answer: Is easier than.

Option 1 does not make any sense grammatically.

Option 4 uses the wrong tense form (future).

Option 3 is wrong because of 'are'.

22. Answer: a

Explanation:

Correct answer: Option 1.

The sentence means that the municipality will collect both type of waste(dry and wet) separately **from** every housing society.

Hence the correct answer is option 1.

23. Answer: a

Explanation:

The correct answer is **No improvement**.

★ Key Points

- 'Help' is one of the verbs which can take the bare infinitive.
 - Ex. Please help me move this table.
 - Ex. This can help keep you thin.
- In the **simple present**, most regular **verbs use the root form**, except in the **third-person singular (which ends in -s)**.
- Hence, the main verb 'help' should become 'helps'.
- Therefore, the statement doesn't need any improvements.

★ Additional Information

- Help can be followed by either a gerund or a to -infinitive but with different meanings:
 - I **can't help thinking** that you are hiding something. (only in the negative: I have to think that you are hiding something.)
 - Could you **help me (to) undo** my shoelaces? My fingers are frozen. (Could you undo my shoelaces?)
- Help can be followed by a bare infinitive or a to -infinitive.
- 'Help to keeps' is grammatically wrong.

24. Answer: b

Explanation:

The correct answer is **option (2)**

★ Key Points

- The sentence essentially means that the institute trains qualified professionals for specialized jobs.
- Hence the correct answer is "**we train qualified**."

Correct sentence: "As an institute, we train qualified professionals for a highly globalized and digital-driven world."

25. Answer: b

Explanation:

The correct answer is **option 2** i.e. 'Also provides'



Explanation: In a sentence, the phrase 'will providing' is incorrect it should be replaced with 'Also provides'.

Let's look at the options:

'Will providing' is grammatically incorrect *because with the modal verbs we use 'base form of the verbs.'*

'Have provide' is grammatically incorrect *because with 'have' we use the third form of the verb i.e. 'Have provided' also here we can't use a perfect tense because it shows the completion of the action in the given sentence it is incorrect to say that clean drinking water has already supply.*

'Provide' is also grammatically incorrect *because we have to write the singular verb with the singular subject i.e. 'the nuclear plant.'*
Similarly, *'had provide' is also incorrect.*

The suitable option is 2 i.e. 'Also provides' 'also' here is an adverb that means 'in addition to'

So the correct sentence is:

*Apart from providing 'clean' electricity, the nuclear plant **also provides** clean drinking water to every household in the area.*

26. Answer: a

Explanation:

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

★ Key Points

- The sentence suggests that the bulletproof vest has somehow protected the life of the police officer.
- Let's see the meaning of the given words:
 - **Saved** : keep safe or rescue (someone or something) from harm or danger.
 - For example, *They brought him in to help **save** the club from bankruptcy.*
 - **Dignified** : having or showing a composed or serious manner that is worthy of respect.
 - For example, *She maintained a **dignified** silence in front of the police.*
 - **Protect** : keep safe from harm or injury.
 - For example, *He tried to **protect** Kelly from the attack.*
 - **Stopped** : (of an event, action, or process) come to an end; cease to happen.
 - For example, *His laughter **stopped** as quickly as it had begun.*
 - **Deleted** : remove or obliterate (written or printed matter), especially by drawing a line through it.
 - For example, *The passage was **deleted** before the book was sent for printing.*
- Hence, option 1 is the correct answer.
- Other options cannot be placed here.

NOTE:

' **Protected** ' could have been the correct answer. But the option has base form of the verb protect. Hence it is the wrong answer.

27. Answer: c

Explanation:

Correct answer: **Option 3** .

The blank requires a word which can quantify the noun 'data'.

Productive can be a close option but it cannot be contextually correct.

Therefore, **recent** is the correct answer.

Procreate means **to reproduce**.

Individual means **single, separate; of a particular person**

Plain means **not decorated or elaborate in character; basic and simple**.

28. Answer: a

Explanation:

Correct option: Option 1.

The sentence suggests that the blank should contain a positive word. Hence, 'lazy' is out.

Option 1 is the correct answer.

Options 3, 4 and 5 are contextually inappropriate.

29. Answer: d

Explanation:

Correct option: Option 4.

The trick to solving this question lies in the adjective 'successful'. The blank thus requires something which is positive. Hence, options 2, 3 and 5 are not applicable.

Option 1 is not correct because it is inappropriate.

30. Answer: e

Explanation:

The correct option is **option 5 i.e. Recruiting**

★ Key Points

- The sentence requires a word which means **acquisition**.
- **Let's see the meaning of given words:**
 - **Order** means the arrangement of a group of people or things in a list from first to last:
 - **For example:** We ranked the tasks in order of importance.
 - **Making** means the process of making or producing something:
 - **For example:** There's an article on the making of a television series.
 - **Produce** means to make or grow something:
 - **For example:** The factory produces about 900 cars a year.
 - **Recruiting** means to try to persuade someone to work for a company or to join an organization
- Hence, the correct answer is **recruiting**.
- Other options do not fit here.

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31. Answer: a

Explanation:

Let the present age of A be x

And the present age of B be y

According to the question,

$$x/(y - 4) = 7/8$$

$$8x = 7y - 28$$

$$8x - 7y = -28 \quad \text{----(i)}$$

8 year hence

$$(x + 8)/(y + 8) = 9/11$$

$$11x + 88 = 9y + 72$$

$$11x - 9y = -16 \quad \text{----(ii)}$$

On solving (i) and (ii)

We get $y = 36$ years

$\therefore$ The present age of B is 36 years

★ Alternate Method

By option method

1) 36

Let present age of B = 36

His age before 4 years = 32

Ratio of age of A and B before 4 years was 7 : 8

8 unit = 32

1 unit = 4

7 unit = 28 years

Age of A before 4 years was 28

B age after 8 years from present age = $36 + 8 = 44$

A age after 8 years from now = $28 + 8 = 36$

Ratio of A and B age after 8 years = $36 : 44 = 9 : 11$

Hence proved

$\therefore$ Present age of B 36 is correct which satisfied all equations and ratio

32. Answer: b

Explanation:

Given:

Initial Mixture = 170 liters

The ratio milk to water = 12 : 5

★ Alternate Method

Initial quantity = 170 liters

After 20% mixture was taken out

Quantity = $170 - 20\% \text{ of } 170 = 136$ liters

Milk : water = 12 : 5

Water = $136 \times \frac{5}{17} = 40$ liter

After adding 10 liters more

$\therefore$ Required quantity = $40 + 10 = 50$ liters

Calculation:

Initial Mixture = 170 liters

Initial quantity of milk = $\frac{12}{(12 + 5)} \times 170 = 120$ liters

Initial quantity of water = $170 - 120 = 50$ liters

Final quantity of water = Initial quantity of water - taken out quantity of water + added quantity of water

Final quantity of water = $50 - \frac{20}{100} \times 50 + 10 = 50 - 10 + 10 = 50$ liters

∴ The quantity of water in final mixture is 50 liters

33. Answer: c

Explanation:

Given:

Cost price of A = 2 × Cost price of B

Selling Price of B = Rs. 3600

Profit % = 20%

Formula Used:

Cost price = Selling price × 100 / (100 + profit %)

Calculation:

Selling Price of B = Rs. 3600

Cost price of B = SP × 100 / 120

Cost price of B = 3600 × 100 / 120

Cost price of B = Rs. 3000

Cost price of A = 2 × 3000 = Rs. 6000

∴ Cost price of A is Rs. 6000

★ Shortcut Trick

Cost price of A = 2 × 3600 × 100 / 120 = Rs. 6000

∴ Cost price of A is Rs. 6000

34. Answer: c

Explanation:

Calculation:

$$144 + 40\% \text{ of } x = 188$$

$$0.4x = 44$$

$$x = 110$$

35. Answer: b

Explanation:

Calculation:

Let the principal amount be P

$$A = P(1 + R/100)^n$$

$$12168 = P(1 + 20/100)^2$$

$$\Rightarrow 12168 = P(6/5 \times 6/5)$$

$$\Rightarrow P = \text{Rs. } 8450$$

Now,

Amount for SI for 3 years = Rs. 8450

$$SI = P \times R \times T/100$$

$$\Rightarrow 8450 - P = P \times 10 \times 3/100$$

$$\Rightarrow 84500 - 10P = 3P$$

$$\Rightarrow 13P = 84500$$

$$\Rightarrow P = \text{Rs. } 6500$$

★ Alternate Method

Principal for simple interest = X

$$\text{Amount} = X + X \times 10 \times 3/100 = 130X/100$$

Amount invest in Scheme B

$$\Rightarrow 130X/100 \times (1 + 20/100)^2 = 12168$$

$$\Rightarrow 130X/100 \times 120/100 \times 120/100 = 12168$$

$$\Rightarrow X = \text{Rs. } 6500$$

$\therefore$ The value of X is Rs. 6500

36. Answer: a

Explanation:

Concept Used:

To Follow BODMAS Rule

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

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

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

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

Calculation:

Given expression is,

$$1/7.99 + 1/11.96 - 1/3.94 + 1/? = 0$$

$$1/8 + 1/12 - 1/4 + 1/? = 0$$

$$1/? = 1/4 - 1/8 - 1/12$$

$$1/? = (6 - 3 - 2) / 24$$

$$? = 24$$

37. Answer: a

Explanation:

Concept Used:

To Follow BODMAS Rule

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

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

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

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

Calculation:

Given expression is,

$$39.96\% \text{ of } (198.99 + 5.99^2) = ?$$

$$40\% \text{ of } (199 + 6^2) = ?$$

$$40/100 \times (199 + 36) = ?$$

$$40/100 \times 235 = ?$$

$$? = 94$$

38. Answer: c

Explanation:

Concept Used:

To Follow BODMAS Rule

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

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

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

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

Calculation:

Given expression is,

$$17.01 + 23.04 - 48.01 \div \sqrt{4.03} = ?^2$$

$$17 + 23 - 48 \div 2 = ?^2$$

$$16 = ?^2$$

$$4^2 = ?^2$$

$$? = 4$$

39. Answer: b

Explanation:

Concept Used:

To Follow BODMAS Rule

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

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

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

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

Calculation:

Given expression is,

$$23.02 - 13.19 \times \sqrt{9.09} + 200.02 = ?$$

$$23 - 13 \times \sqrt{9} + 200 = ?$$

$$23 - 13 \times 3 + 200 = ?$$

$$23 - 39 + 200 = ?$$

$$? = 184$$

40. Answer: c

Explanation:

Concept Used:

To Follow BODMAS Rule

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

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

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

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

Calculation:

Given expression is,

$$4.03 \times (6.02)^2 - \sqrt{120.89} + \sqrt{144.06} = ?$$

$$4 \times 6^2 - \sqrt{121} + \sqrt{144} = ?$$

$$4 \times 36 - 11 + 12 = ?$$

$$? = 145$$

41. Answer: c

Explanation:

Concept Used:

To Follow BODMAS Rule

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

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

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

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

Calculation:

Given expression is,

$$8.02 - (? - 9.01) + (10.92)^2 = 120$$

$$8 - (? - 9) + (11)^2 = 120$$

$$8 - ? + 9 + 121 = 120$$

$$? = 18$$

42. Answer: e

Explanation:

GIVEN :

Capital of A = Rs. 8000

Capital of B = Rs. 10000

Capital of C = Rs. 15000

FORMULA USED :

Profit = Investment x Time

CALCULATION :

Profit Sharing ratio of A : B : C = $8000 \times 12 : 10000 \times 8 : 15000 \times 4$

$\Rightarrow 24 : 20 : 15$

$\therefore$ Share of C = $118000 \times 15 / 59 = \text{Rs. } 30000$

43. Answer: c

Explanation:

GIVEN :

The side of square (S) is equal to the diameter of the circle (C).

The cost of gardening a circular field C at the rate of 10 Rs./m²

FORMULA USED :

Total cost = Area of circle $\times$ Rate

CALCULATION :

$$3465 = \pi r^2 \times 10$$

$$\Rightarrow 3465 = \frac{22}{7} \times r^2 \times 10$$

$$\Rightarrow r^2 = 3465 \times 7 / 22 \times 1/10$$

$$\Rightarrow r^2 = 110.25$$

$$\Rightarrow r = 10.5 \text{ cm}$$

Now, side of square = $2 \times r$

$$\Rightarrow S = 2 \times 10.5 = 21\text{cm}$$

$$\therefore \text{Perimeter} = 4 \times S = 4 \times 21 = 84\text{cm}$$

44. Answer: c

Explanation:

Percentage of females in factory A and C together = 40%

Number of females in factory A and C together = 40% of $(200 + 340) = 216$

Percentage of males in factory B = 20%

Percentage of females in factory B = $100 - 20 = 80\%$

Number of females in factory B = 80% of 400 = 320

$\therefore$ Required number = $216 + 320 = 536$

45. Answer: d

Explanation:

Number of workers in factory D = 320

Number of workers in factory E = $320 + 20\% \text{ of } 320 = 384$

Ratio of the number of males and females in factory E = 7 : 5

$\therefore$ required number of females = $\frac{5}{12} \times 384 = 160$

46. Answer: c

Explanation:

Percentage of females in factory A and C together (above 40 years) = 60%

Percentage of males in factory A and C together (above 40 years) = 40%

Number of males in factory A and C together (above 40 years) = $40/100 \times (50 + 110)$
= 64

Percentage of females in factory B and D together (above 40 years) = 50%

Percentage of males in factory B and D together (above 40 years) = 50%

Number of females in factory B and D together (above 40 years) = $50/100 \times (70 + 120)$ = 95

$\therefore$ required ratio = 64 : 95

47. Answer: a

Explanation:

Number of males in factory C (above 40 years) = 30

Number of females in factory C (above 40 years) = $110 - 30 = 80$

Number of males in factory A (above 40 years) = 30

Number of females in factory A (above 40 years) = $50 - 30 = 20$

$\therefore$ required percentage = $[(80 - 20) / 20] \times 100 = 300\%$

48. Answer: c

Explanation:

Total number of workers above 40 years in all the factories = $50 + 70 + 110 + 120 = 350$

Number of females above 40 years in all the factories = $20\% \text{ of } 350 = 70$

$$\therefore \text{required average} = 70/4 = 17.5$$

49. Answer: c

Explanation:

$$\text{Total number of workers in all the factories} = 200 + 400 + 340 + 320 = 1260$$

$$\text{Total number of workers above 40 years of age} = 50 + 70 + 110 + 120 = 350$$

$$\therefore \text{total number of workers in all the factories whose age is below 40 years} = 1260 - 350 = 910$$

50. Answer: a

Explanation:

Calculation:

$$\text{Percentage of animals in the forest A and B together} = (20\% + 5\%) = 25\%$$

$$\text{Number of animals in the forest A and B together} = 25\% \text{ of } 5000 = 1250$$

$$\text{Percentage of animals in the forest D and E together} = (10\% + 40\%) = 50\%$$

$$\text{Number of animals in the forest D and E together} = 50\% \text{ of } 5000 = 2500$$

$$\therefore \text{Required ratio} = 1250 : 2500 = 1 : 2$$

★ Shortcut Trick

$$\text{The ratio} = (20 + 5)\% : (40 + 10)\%$$

$$\text{The ratio} = 25 : 50 = 1 : 2$$

$$\therefore \text{Required ratio is } 1 : 2$$

51. Answer: a

Explanation:

Calculation:

Let the number of herbivores animals in forest E = x

Number of carnivores' animals in forest E = $2x$

Number of omnivores animals in forest E = x

$$x + 2x + x = 40\% \text{ of } 5000$$

$$\Rightarrow x = 500$$

$\therefore$ The number of herbivores animals in the forest E is 500

52. Answer: a

Explanation:

Calculation:

Number of animals in all the forest = 5000

Percentage of carnivores animals in all the forest = 10%

Number of carnivores animals in all the forest = 10% of 5000 = 500

$\therefore$ Required average = $500/5 = 100$

53. Answer: e

Explanation:

Calculation:

Number of animals in forest A = 20% of 5000 = 1000

Percentage of omnivores animals in forest A = 25%

Number of omnivores animals in forest A = 25% of 1000 = 250

Number of animals in the forest D = 10% of 5000 = 500

$\therefore$ Required ratio = $(250/500) \times 100 = 50\%$

54. Answer: d

Explanation:

Calculation:

The total percentage of animals in the forest A, B and C together = $(20\% + 5\% + 25\%) = 50\%$

The total number of animals in the forest A, B and C together = 50% of 5000 = 2500

The total percentage of animals in the forest D and E together = $(10\% + 40\%) = 50\%$

The total number of animals in the forest D and E together = 50% of 5000 = 2500

$\therefore$ Required percentage = $[(2500 - 2500) / 2500] \times 100 = 0\%$

★ Alternate Method

The total percentage of animals in the forest A, B and C together = $(20\% + 5\% + 25\%) = 50\%$

The total percentage of animals in the forest D and E together = $(10\% + 40\%) = 50\%$

Required percentage = $[(50 - 50) / 50] \times 100 = 0\%$

$\therefore$ Required percentage is 0%

55. Answer: a

Explanation:

$$18 + 2^3 = 26$$

$$26 + 3^3 = 53$$

$$53 + 4^3 = 117$$

$$117 + 5^3 = 242$$

$$242 + 6^3 = \mathbf{458}$$

56. Answer: a

Explanation:

The given series is followed by +8, -10

$$100 + 8 = 108$$

$$108 - 10 = 98$$

$$98 + 8 = 106$$

$$106 - 10 = 96$$

$$96 + 8 = \mathbf{104}$$

57. Answer: c

Explanation:

$$2 \times 1/2 = 1$$

$$1 \times 2/2 = 1$$

$$1 \times 3/2 = 1.5$$

$$1.5 \times 4/2 = 3$$

$$3 \times 5/2 = 7.5$$

58. Answer: a

Explanation:

The given sequence is +6, +12 (6+6), +20 (12+8), +30 (20+10)

$$18 + 6 = 24$$

$$24 + 12 = 36$$

$$36 + 20 = 56$$

$$56 + 30 = 86$$

$$86 + 42 = 128$$

59. Answer: c

Explanation:

$$1 \times 11 = 11$$

$$11 \times 9 = 99$$

$$99 \times 7 = 693$$

$$693 \times 5 = 3465$$

$$3465 \times 3 = 10395$$

60. Answer: b

Explanation:

Let the no. male employees in the company be $13x$ and the female employees be $7x$.

$$\therefore 13x + 7x = 3500$$

$$\Rightarrow 20x = 3500$$

$$\Rightarrow x = 3500/20$$

$$\Rightarrow x = 175$$

$$\therefore \text{No. of male employees} = 13 \times 175 = 2275$$

No. of employees in the accounts department = 30% of 3500

$$\Rightarrow \frac{30}{100} \times 3500$$

$$\Rightarrow 35 \times 30 = 1050$$

No. of males in the production department = 20% of 2275

$$\Rightarrow \frac{20}{100} \times 2275$$

$$\Rightarrow \frac{1}{5} \times 2275 = 455$$

No. of females in the production department = $\frac{2}{3} \times 1050 = 700$

$\therefore$ Total employees in production department = $700 + 455 = 1155$

$\therefore$ Total employees in marketing department = $3500 - (1155 + 1050) = 1295$

Let the no. male employees in the marketing department be $5x$ and the female employees be $2x$.

$$\therefore 5x + 2x = 1295$$

$$\Rightarrow 7x = 1295$$

$$\Rightarrow x = 185$$

$$\Rightarrow \text{Male employees in marketing department} = 5 \times 185 = 925$$

$$\therefore \text{No. of males in the Accounts department} = 2275 - (455 + 925) = 895$$

$$\Rightarrow \text{No. of females in the Accounts department} = 1050 - 895 = 155$$

$$\therefore \text{Ratio of females to males in the Accounts department} = \frac{155}{895} = \frac{31}{179} = 31 : 179$$

61. Answer: c

Explanation:

Let the no. male employees in the company be $13x$ and the female employees be $7x$.

$$\therefore 13x + 7x = 3500$$

$$\Rightarrow 20x = 3500$$

$$\Rightarrow x = 3500/20$$

$$\Rightarrow x = 175$$

$$\therefore \text{No. of male employees} = 13 \times 175 = 2275$$

No. of employees in the accounts department = 30% of 3500

$$\Rightarrow \frac{30}{100} \times 3500$$

$$\Rightarrow 35 \times 30 = 1050$$

No. of males in the production department = 20% of 2275

$$\Rightarrow \frac{20}{100} \times 2275$$

$$\Rightarrow \frac{1}{5} \times 2275 = 455$$

$$\text{No. of females in the production department} = \frac{2}{3} \times 1050 = 700$$

$$\therefore \text{Total employees in production department} = 700 + 455 = 1155$$

$$\therefore \text{Total employees in marketing department} = 3500 - (1155 + 1050) = 1295$$

Let the no. male employees in the marketing department be $5x$ and the female employees be $2x$.

$$\therefore 5x + 2x = 1295$$

$$\Rightarrow 7x = 1295$$

$$\Rightarrow x = 185$$

$$\Rightarrow \text{Male employees in marketing department} = 5 \times 185$$

$$= 925$$

$$\therefore \text{No. of males in the Accounts department} = 2275 - (455 + 925) = 895$$

$$\therefore \% \text{ of male employees in Accounts department} = \frac{895}{2275} \times 100 = 39.34$$

62. Answer: b

Explanation:

No. of employees in the accounts department = 30% of 3500

$$\Rightarrow \frac{30}{100} \times 3500$$

$$\Rightarrow 35 \times 30 = 1050$$

$$\text{No. of females in the production department} = \frac{2}{3} \times 1050 = 700$$

63. Answer: a

Explanation:

Let the no. male employees in the company be $13x$ and the female employees be $7x$.

$$\therefore 13x + 7x = 3500$$

$$\Rightarrow 20x = 3500$$

$$\Rightarrow x = 3500/20$$

$$\Rightarrow x = 175$$

$$\therefore \text{No. of male employees} = 13 \times 175 = 2275$$

No. of employees in the accounts department = 30% of 3500

$$\Rightarrow \frac{30}{100} \times 3500$$

$$\Rightarrow 35 \times 30 = 1050$$

No. of males in the production department = 20% of 2275

$$\Rightarrow \frac{20}{100} \times 2275 = 455$$

$$\text{No. of females in the production department} = \frac{2}{3} \times 1050 = 700$$

$$\therefore \text{Total employees in production department} = 700 + 455 = 1155$$

$$\therefore \text{Total employees in marketing department} = 3500 - (1155 + 1050) = 1295$$

Let the no. male employees in the marketing department be $5x$ and the female employees be $2x$.

$$\therefore 5x + 2x = 1295$$

$$\Rightarrow 7x = 1295$$

$$\Rightarrow x = 185$$

$$\Rightarrow \text{Male employees in marketing department} = 5 \times 185 = 925$$

$$\therefore \text{The difference between the no. males in the Marketing department and the Production department} = 925 - 455 = 470$$

64. Answer: c

Explanation:

Calculation:

Let the length of train be 'Lt'

Speed of train = 'Vt'

Time taken = (length of train + length of pole) / speed of train

$$30 = (Lt + 300)/Vt \quad \text{---- (1)}$$

$$\Rightarrow Lt/Vt = 10$$

$$\Rightarrow Lt = 10Vt$$

$$\Rightarrow 30Vt = (10Vt + 300)$$

$$\Rightarrow 20Vt = 300$$

$$\Rightarrow Vt = 300/20 = 15$$

Put $Vt = 15$ in equation (1), we get,

$$30 = (Lt + 300)/15$$

$$\Rightarrow 450 = Lt + 300$$

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

$\therefore$ Length of train is 150 m

★ Alternate Method

let the length of the train be x m and let the speed of the train be v m/s

According to the question,

$$x + 300 = v \times 30 \quad \text{---- (i)}$$

and $x = v \times 10$ ---- (ii)

From (i) and (ii), we get

$$(x + 300)/30 = x/10$$

$$\Rightarrow 10(x + 300) = 30x$$

$$\Rightarrow 10x + 3000 = 30x$$

$$\Rightarrow 20x = 3000$$

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

$\therefore$ Length of train is 150m

65. Answer: c

Explanation:

Given:

The average of first four is 10.

The average of last four is 8.

The average of the six numbers is 9

Concept Used:

Average = Sum of numbers/number of numbers

Sum of the 3rd and 4th numbers = Sum of first 4 numbers + Sum of last four numbers – Sum of all six numbers

Calculation:

Sum of first four numbers = $10 \times 4 = 40$

Sum of last four numbers = $8 \times 4 = 32$

Sum of all six numbers = $9 \times 6 = 54$

Now,

Sum of the 3rd and 4th numbers = $40 + 32 - 54 = 18$

$\therefore$ Average of 3rd and 4th numbers = $18/2 = 9$

66. Answer: c

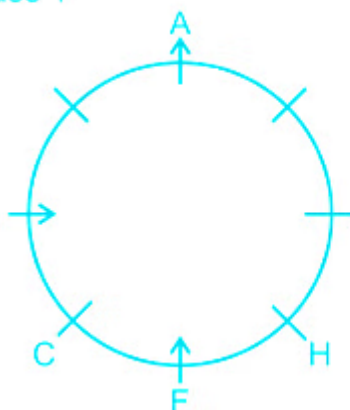
Explanation:

Eight people: A, B, C, D, E, F, G, and H sitting around a table.

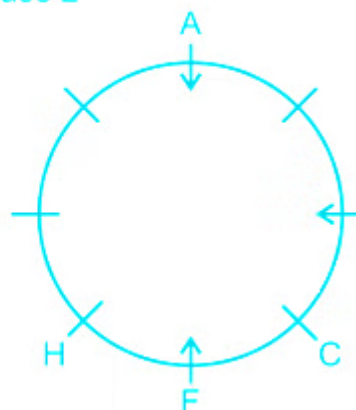
Some of them are facing the centre while others are facing outside (i.e. opposite to the centre)

- 1) F faces the centre.
- 2) Only three people sit between F and A.
- 3) C sits third to the left of A.
- 4) Immediate neighbors of C face the same direction
- 5) H is an immediate neighbor of F.

Case 1



Case 2

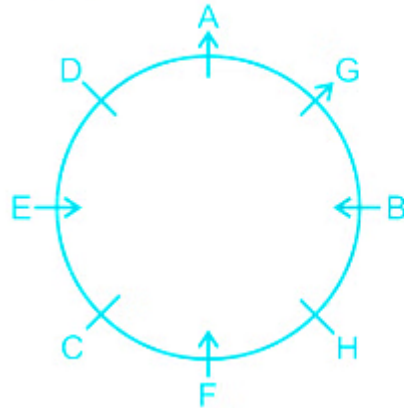


- 6) B is an immediate neighbor of H.

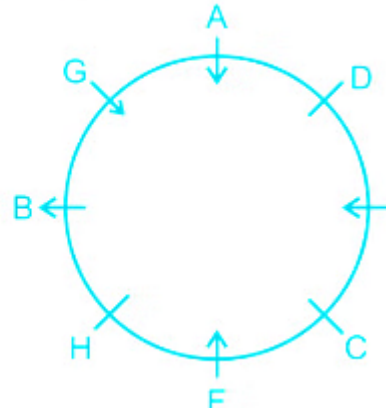
7) G sits to the immediate right of B.

8) D sits second to the left of G.

Case 1



Case 2

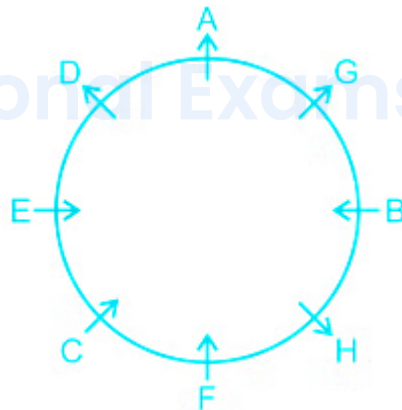


9) Immediate neighbors of D faces the opposite direction.

(As in the case ii, Immediate neighbors of D faces the same direction, case ii gets eliminated).

10) E sits to the immediate left of C.

11) Both D and H face a direction opposite to that of E.



Hence, G sits second to the left of H.

67. Answer: b

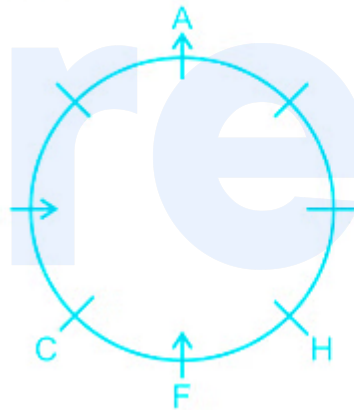
Explanation:

Eight people: A, B, C, D, E, F, G, and H sitting around a table.

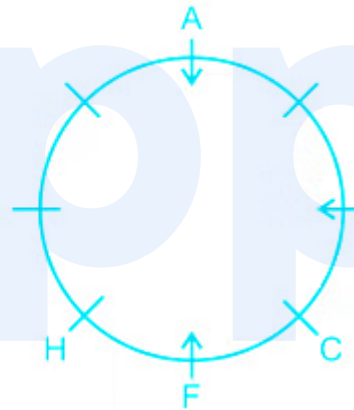
Some of them are facing the centre while others are facing outside (i.e. opposite to the centre)

- 1) F faces the centre.
- 2) Only three people sit between F and A.
- 3) C sits third to the left of A.
- 4) Immediate neighbors of C face the same direction
- 5) H is an immediate neighbor of F.

Case 1

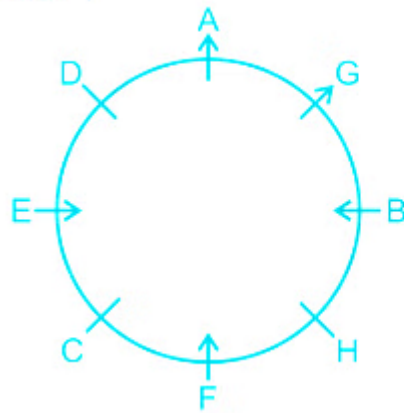


Case 2

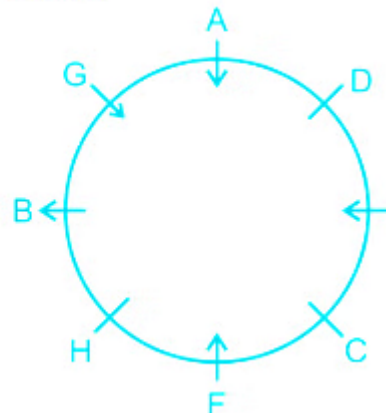


- 6) B is an immediate neighbor of H.
- 7) G sits to the immediate right of B.
- 8) D sits second to the left of G.

Case 1



Case 2

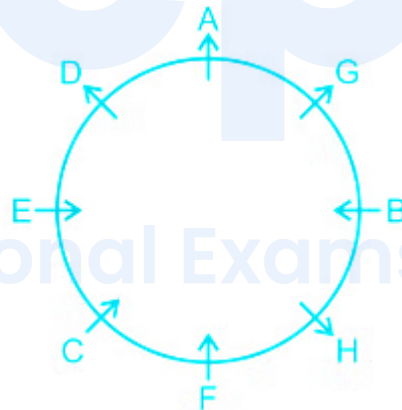


9) Immediate neighbors of D faces the opposite direction.

(As in the case ii, Immediate neighbors of D faces the same direction, case ii gets eliminated).

10) E sits to the immediate left of C.

11) Both D and H face a direction opposite to that of E.



Here except DB, all other pairs are facing in the same directions of each other.

Hence, DB is the odd one out.

68. Answer: a

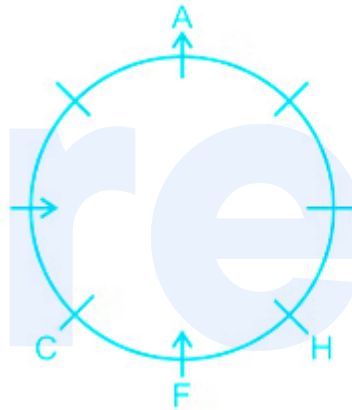
Explanation:

Eight people: A, B, C, D, E, F, G, and H sitting around a table.

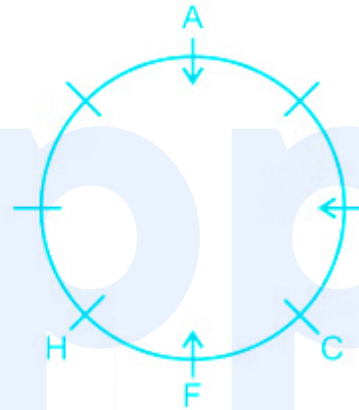
Some of them are facing the centre while others are facing outside (i.e. opposite to the centre)

- 1) F faces the centre.
- 2) Only three people sit between F and A.
- 3) C sits third to the left of A.
- 4) Immediate neighbors of C face the same direction
- 5) H is an immediate neighbor of F.

Case 1

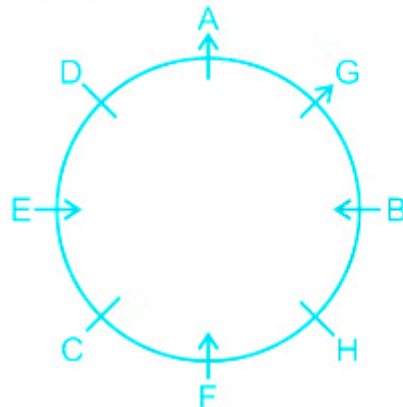


Case 2

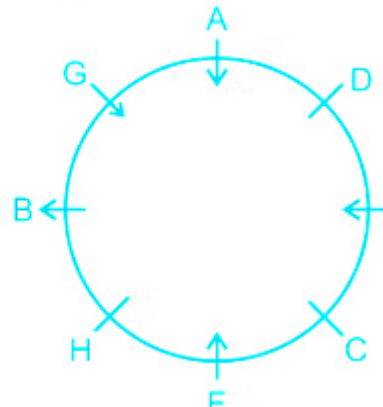


- 6) B is an immediate neighbor of H.
- 7) G sits to the immediate right of B.
- 8) D sits second to the left of G.

Case 1



Case 2

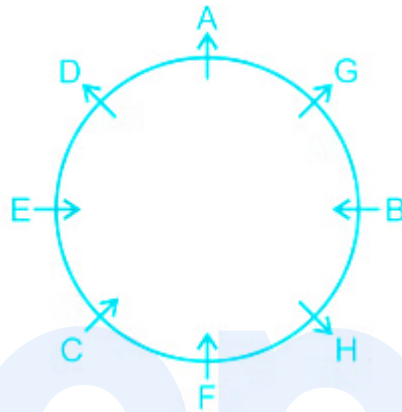


9) Immediate neighbors of D faces the opposite direction.

(As in the case ii, Immediate neighbors of D faces the same direction, case ii gets eliminated).

10) E sits to the immediate left of C.

11) Both D and H face a direction opposite to that of E.



Hence, if D and B interchange their positions, then D sits second to the right of A.

69. Answer: e

Explanation:

Eight people: A, B, C, D, E, F, G, and H sitting around a table.

Some of them are facing the centre while others are facing outside (i.e. opposite to the centre)

1) F faces the centre.

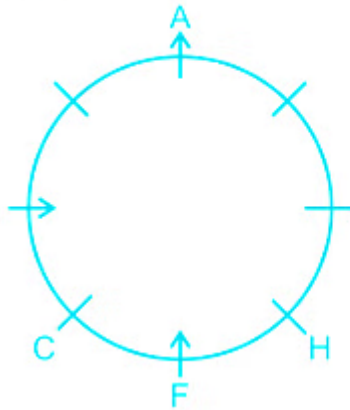
2) Only three people sit between F and A.

3) C sits third to the left of A.

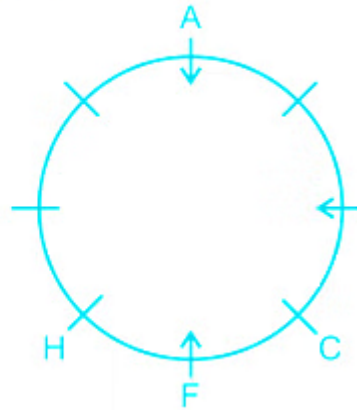
4) Immediate neighbors of C face the same direction

5) H is an immediate neighbor of F.

Case 1



Case 2

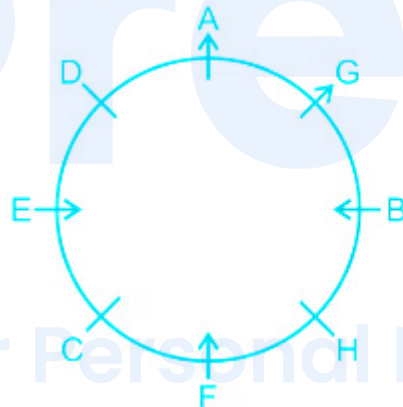


6) B is an immediate neighbor of H.

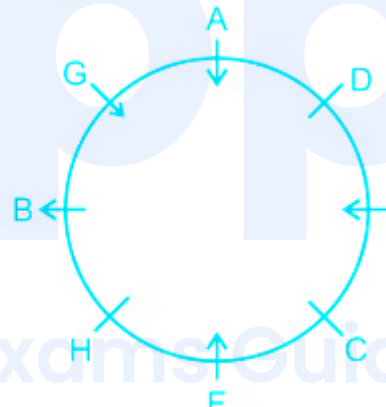
7) G sits to the immediate right of B.

8) D sits second to the left of G.

Case 1



Case 2

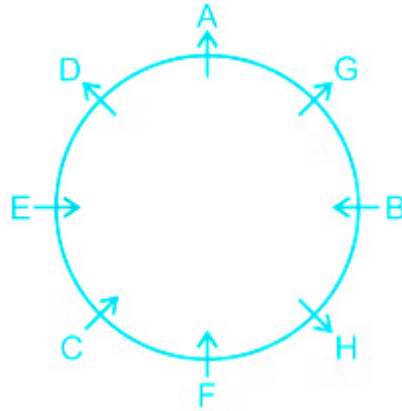


9) Immediate neighbors of D faces the opposite direction.

(As in the case ii, Immediate neighbors of D faces the same direction, case ii gets eliminated).

10) E sits to the immediate left of C.

11) Both D and H face a direction opposite to that of E.



Hence, five-persons sit between E and F when counted from the left of E.

70. Answer: d

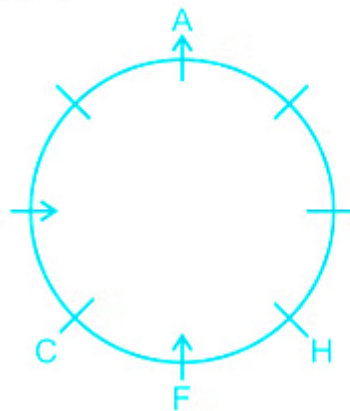
Explanation:

Eight people: A, B, C, D, E, F, G, and H sitting around a table.

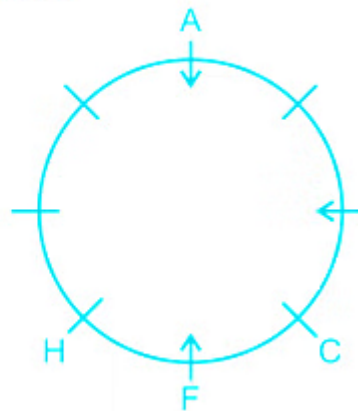
Some of them are facing the centre while others are facing outside (i.e. opposite to the centre)

- 1) F faces the centre.
- 2) Only three people sit between F and A.
- 3) C sits third to the left of A.
- 4) Immediate neighbors of C face the same direction
- 5) H is an immediate neighbor of F.

Case 1



Case 2

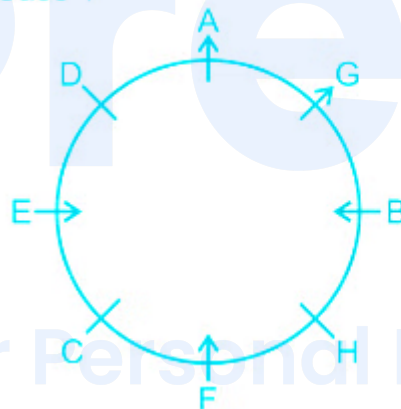


6) B is an immediate neighbor of H.

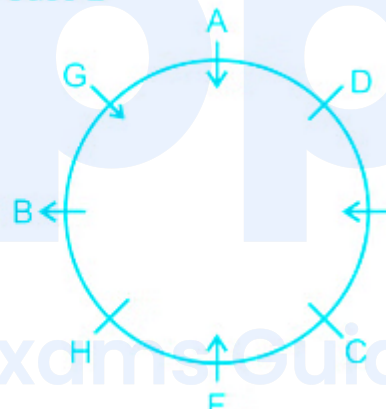
7) G sits to the immediate right of B.

8) D sits second to the left of G.

Case 1



Case 2

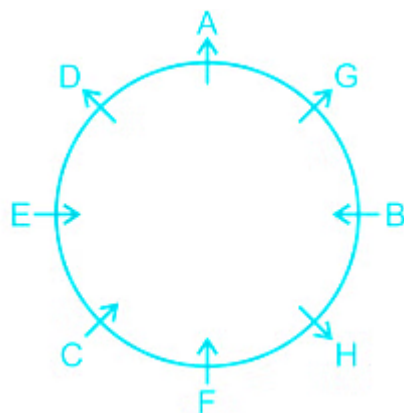


9) Immediate neighbors of D faces the opposite direction.

(As in the case ii, Immediate neighbors of D faces the same direction, case ii gets eliminated).

10) E sits to the immediate left of C.

11) Both D and H face a direction opposite to that of E.

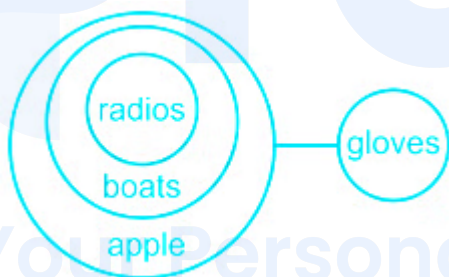


Hence, A sits to the immediate left of G.

71. Answer: a

Explanation:

The least possible Venn diagram is as follows:



Conclusions:

I. At least some apples are boats → True

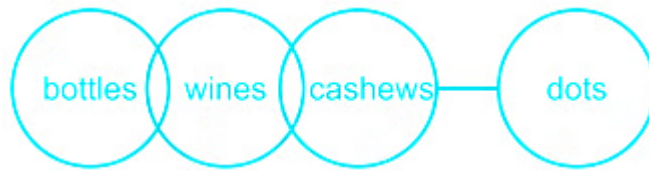
II. All gloves are radios → False.

Hence, only conclusion I follow.

72. Answer: b

Explanation:

The least possible diagram for the given statements is as follows



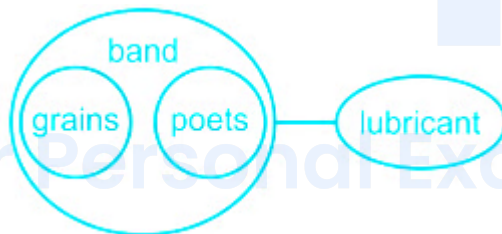
Conclusion:

- I. At least some wines are dots → False.
 - II. All cashews being bottles is a possibility → Possibility is true.
- Hence, only II follows.

73. Answer: e

Explanation:

The least possible diagram for the given statements is as follows



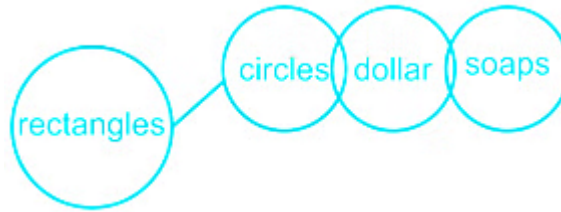
Conclusion:

- I. All bands being grain is a possibility → Possibility is true.
 - II. No poet is a lubricant → True.
- Hence, both I and II follow.

74. Answer: d

Explanation:

The least possible diagram for the given statements is as follows



Conclusion:

I. All circles being rectangle is a possibility $\rightarrow$ False (as no rectangle is a circle means no circle is a rectangle)

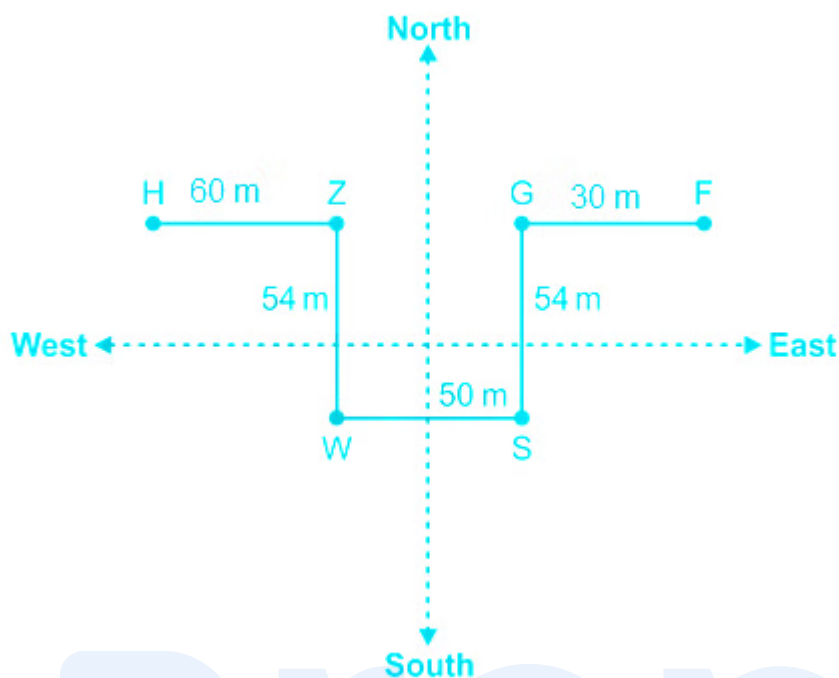
II. Some rectangles are definitely not soaps $\rightarrow$ False.

Hence, neither I nor II follows.

75. Answer: d

Explanation:

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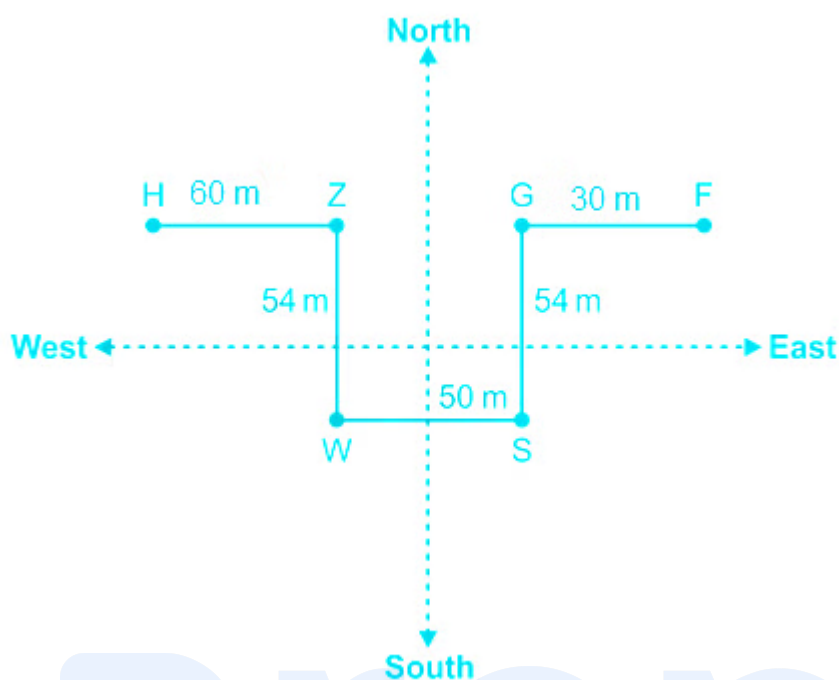


Hence, the distance between H and F is **140m**.

Hence, **140m** is the correct answer.

76. Answer: a

Explanation:

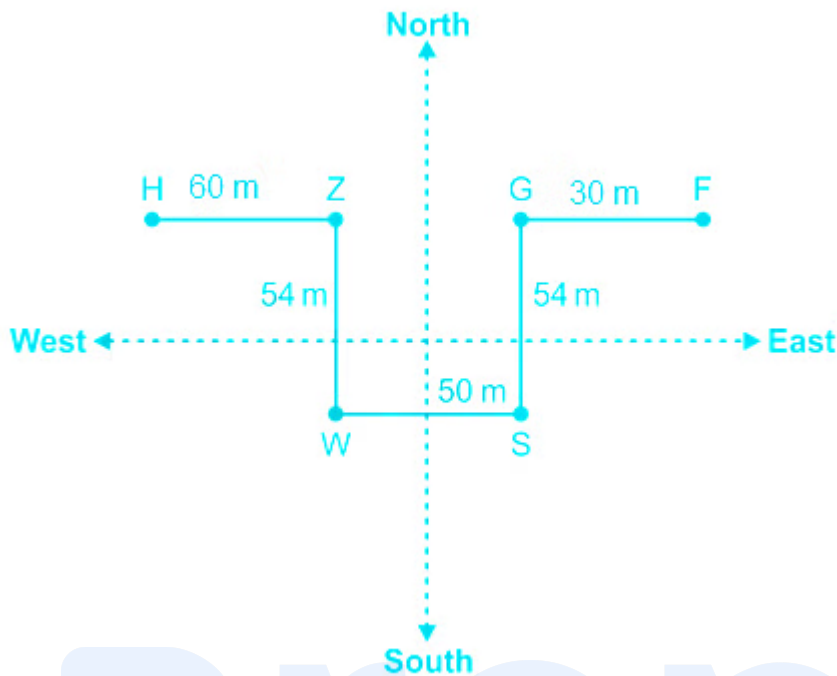


Point W is in **South-West** direction with respect to point G.

Hence, **South-West** is the correct answer.

77. Answer: c

Explanation:



W is not in the straight line as H, Z, G, F.

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

78. Answer: c

Explanation:

Ten people are sitting in a straight line facing North with equal distance between each other.

- 1) Only 3 people sit to the left of M.
- 2) Only one person sits between M and R.
- 3) P sits third to the right of R.
- 4) As many people sit to the right of P as to the left of Q.

Case 1



Case 2



5) Only three people sit between Q and S. (Here case ii gets eliminated).

6) U is an immediate neighbor of S.

7) T sits second to the left of W.



8) N sits to the immediate right of V.



Hence, there are five people sit between N and R.

79. Answer: e

Explanation:

Ten people are sitting in a straight line facing North with equal distance between each other.

1) Only 3 people sit to the left of M.

2) Only one person sits between M and R.

3) P sits third to the right of R.

4) As many people sit to the right of P as to the left of Q.

Case 1



Case 2



5) Only three people sit between Q and S. (Here case ii gets eliminated).

6) U is an immediate neighbor of S.

7) T sits second to the left of W.



8) N sits to the immediate right of V.



Hence, N sits 2nd to the right of Q.

80. Answer: b

Explanation:

Ten people are sitting in a straight line facing North with equal distance between each other.

1) Only 3 people sit to the left of M.

2) Only one person sits between M and R.

3) P sits third to the right of R.

4) As many people sit to the right of P as to the left of Q.

Case 1



Case 2



5) Only three people sit between Q and S. (Here case ii gets eliminated).

6) U is an immediate neighbor of S.

7) T sits second to the left of W.



8) N sits to the immediate right of V.



Hence, "ST" represents persons seated at the two extreme ends of the line

81. Answer: a

Explanation:

Ten people are sitting in a straight line facing North with equal distance between each other.

1) Only 3 people sit to the left of M.

2) Only one person sits between M and R.

3) P sits third to the right of R.

4) As many people sit to the right of P as to the left of Q.

Case 1



Case 2



5) Only three people sit between Q and S. (Here case ii gets eliminated).

6) U is an immediate neighbor of S.

7) T sits second to the left of W.



8) N sits to the immediate right of V.



Here except 'SP', other pairs have one people between them.

Hence, "SP" is the odd one out.

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82. Answer: e

Explanation:

Ten people are sitting in a straight line facing North with equal distance between each other.

1) Only 3 people sit to the left of M.

2) Only one person sits between M and R.

3) P sits third to the right of R.

4) As many people sit to the right of P as to the left of Q.

Case 1



Case 2



5) Only three people sit between Q and S. (Here case ii gets eliminated).

6) U is an immediate neighbor of S.

7) T sits second to the left of W.



8) N sits to the immediate right of V.



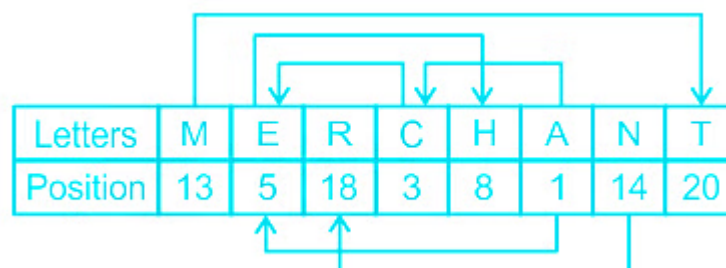
Hence, 'P sits immediate left of Q' is the true statement.

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83. Answer: d

Explanation:

Given word: MERCHANT



Hence, there are more than four pairs → Forward: EH, MT; Backward: AC, CE, AE, NR.

84. Answer: a

Explanation:

Given Word: MODELLING

After arranging all letters of the given word in alphabetical order:

D E G I L L M N O

After changing all vowels to the previous letter and all consonants to the next letter as per the English alphabetical series:

E D H H M M N O N

Hence, only three letters E, D, and O are not repeating more than once in the above arrangement.

85. Answer: b

Explanation:

Six people A, B, C, D, E, and F.

A is taller than D and C.

B is taller than A but shorter than E.

C is not the shortest person.

D is shorter than only three person. The third tallest person has 115cm height.

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

Therefore, E is the tallest.

86. Answer: b

Explanation:

Six people A, B, C, D, E, and F.

A is taller than D and C.

B is taller than A but shorter than E.

C is not the shortest person.

D is shorter than only three-person. The third tallest person has 170 cm in height.

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

$$\text{Now, } A + E = 235 \text{----- (i)}$$

$$\text{and } A + D = 220 \text{----- (ii)}$$

A is the third tallest person = 115 cm

$$E = 235 - 115 = 120 \text{ cm}$$

Hence, the height of E is **120 cm**.

87. Answer: d

Explanation:

Given,

i) B lives on an odd-numbered floor above floor 3.

From the above statement, we get two cases, i.e. Case-1 & Case-2

Floor	Case-1	Case-2
8		
7		B
6		
5	B	
4		
3		
2		
1		

ii) Two people live between B and C.

From the above statement, we get two sub cases of Case-1, i.e. Case-1(a) & Case-1(b)

Floor	Case-1(a)	Case-1(b)	Case-2
8	C		
7			B
6			
5	B	B	
4			C
3			
2		C	
1			

iii) Three people live between C and D.

Floor	Case-1(a)	Case-1(b)	Case-2
8	C		D
7			B
6		D	
5	B	B	
4	D		C
3			
2		C	
1			

iv) The number of people who live below C is equal to the number of people who live above A.

Floor	Case-1(a)	Case-1(b)	Case-2
8	C		D
7		A	B
6		D	
5	B	B	A
4	D		C
3			
2		C	
1	A		

v) A lives on one of the floors above D.

From the above statement, this condition is violated. So, Case-2 is eliminated.

Floor	Case-1(a)	Case-1(b)
8	C	
7		A
6		D
5	B	B
4	D	
3		
2		C
1	A	

vi) F lives on two floors above C.

From the above statement, there is no place for F in Case-1(a). So, Case-1(a) is eliminated.

Floor	Case-1(b)
8	
7	A
6	D
5	B
4	F
3	
2	C
1	

vii) G lives on one of the floors below E and H lives on one of the floors above G & E.

Floor	Case-1(b)
8	H
7	A
6	D
5	B
4	F
3	E
2	C
1	G

All of have 1 person sitting in between them except **CD**.

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

88. Answer: b

Explanation:

Given,

i) B lives on an odd-numbered floor above floor 3.

From the above statement, we get two cases, i.e. Case-1 & Case-2

Floor	Case-1	Case-2
8		
7		B
6		
5	B	
4		
3		
2		
1		

ii) Two people live between B and C.

From the above statement, we get two sub cases of Case-1, i.e. Case-1(a) & Case-1(b)

Floor	Case-1(a)	Case-1(b)	Case-2
8	C		
7			B
6			
5	B	B	
4			C
3			
2		C	
1			

iii) Three people live between C and D.

Floor	Case-1(a)	Case-1(b)	Case-2
8	C		D
7			B
6		D	
5	B	B	
4	D		C
3			
2		C	
1			

iv) The number of people who live below C is equal to the number of people who live above A.

Floor	Case-1(a)	Case-1(b)	Case-2
8	C		D
7		A	B
6		D	
5	B	B	A
4	D		C
3			
2		C	
1	A		

v) A lives on one of the floors above D.

From the above statement, this condition is violated. So, Case-2 is eliminated.

Floor	Case-1(a)	Case-1(b)
8	C	
7		A
6		D
5	B	B
4	D	
3		
2		C
1	A	

vi) F lives on two floors above C.

From the above statement, there is no place for F in Case-1(a). So, Case-1(a) is eliminated.

Floor	Case-1(b)
8	
7	A
6	D
5	B
4	F
3	
2	C
1	

vii) G lives on one of the floors below E and H lives on one of the floors above G.

Floor	Case-1(b)
8	H
7	A
6	D
5	B
4	F
3	E
2	C
1	G

Hence, A lives in **7th** floor.

89. Answer: e

Explanation:

Given,

i) B lives on an odd-numbered floor above floor 3.

From the above statement, we get two cases, i.e. Case-1 & Case-2

Floor	Case-1	Case-2
8		
7		B
6		
5	B	
4		
3		
2		
1		

ii) Two people live between B and C.

From the above statement, we get two sub cases of Case-1, i.e. Case-1(a) & Case-1(b)

Floor	Case-1(a)	Case-1(b)	Case-2
8	C		
7			B
6			
5	B	B	
4			C
3			
2		C	
1			

iii) Three people live between C and D.

Floor	Case-1(a)	Case-1(b)	Case-2
8	C		D
7			B
6		D	
5	B	B	
4	D		C
3			
2		C	
1			

iv) The number of people who live below C is equal to the number of people who live above A.

Floor	Case-1(a)	Case-1(b)	Case-2
8	C		D
7		A	B
6		D	
5	B	B	A
4	D		C
3			
2		C	
1	A		

v) A lives on one of the floors above D.

From the above statement, this condition is violated. So, Case-2 is eliminated.

Floor	Case-1(a)	Case-1(b)
8	C	
7		A
6		D
5	B	B
4	D	
3		
2		C
1	A	

vi) F lives on two floors above C.

From the above statement, there is no place for F in Case-1(a). So, Case-1(a) is eliminated.

Floor	Case-1(b)
8	
7	A
6	D
5	B
4	F
3	
2	C
1	

vii) G lives on one of the floors below E and H lives on one of the floors above G & E.

Floor	Case-1(b)
8	H
7	A
6	D
5	B
4	F
3	E
2	C
1	G

There are four people living between E and H.

Hence, **There are three people living between E and H** is the correct answer according to the question.

90. Answer: b

Explanation:

Given,

i) B lives on an odd-numbered floor above floor 3.

From the above statement, we get two cases, i.e. Case-1 & Case-2

Floor	Case-1	Case-2
8		
7		B
6		
5	B	
4		
3		
2		
1		

ii) Two people live between B and C.

From the above statement, we get two sub cases of Case-1, i.e. Case-1(a) & Case-1(b)

Floor	Case-1(a)	Case-1(b)	Case-2
8	C		
7			B
6			
5	B	B	
4			C
3			
2		C	
1			

iii) Three people live between C and D.

Floor	Case-1(a)	Case-1(b)	Case-2
8	C		D
7			B
6		D	
5	B	B	
4	D		C
3			
2		C	
1			

iv) The number of people who live below C is equal to the number of people who live above A.

Floor	Case-1(a)	Case-1(b)	Case-2
8	C		D
7		A	B
6		D	
5	B	B	A
4	D		C
3			
2		C	
1	A		

v) A lives on one of the floors above D.

From the above statement, this condition is violated. So, Case-2 is eliminated.

Floor	Case-1(a)	Case-1(b)
8	C	
7		A
6		D
5	B	B
4	D	
3		
2		C
1	A	

vi) F lives on two floors above C.

From the above statement, there is no place for F in Case-1(a). So, Case-1(a) is eliminated.

Floor	Case-1(b)
8	
7	A
6	D
5	B
4	F
3	
2	C
1	

vii) G lives on one of the floors below E and H lives on one of the floors above G & E.

Floor	Case-1(b)
8	H
7	A
6	D
5	B
4	F
3	E
2	C
1	G

B lives immediately above F.

Hence, B is the correct answer.

91. Answer: d

Explanation:

Given,

i) B lives on an odd-numbered floor above floor 3.

From the above statement, we get two cases, i.e. Case-1 & Case-2

Floor	Case-1	Case-2
8		
7		B
6		
5	B	
4		
3		
2		
1		

ii) Two people live between B and C.

From the above statement, we get two sub cases of Case-1, i.e. Case-1(a) & Case-1(b)

Floor	Case-1(a)	Case-1(b)	Case-2
8	C		
7			B
6			
5	B	B	
4			C
3			
2		C	
1			

iii) Three people live between C and D.

Floor	Case-1(a)	Case-1(b)	Case-2
8	C		D
7			B
6		D	
5	B	B	
4	D		C
3			
2		C	
1			

iv) The number of people who live below C is equal to the number of people who live above A.

Floor	Case-1(a)	Case-1(b)	Case-2
8	C		D
7		A	B
6		D	
5	B	B	A
4	D		C
3			
2		C	
1	A		

v) A lives on one of the floors above D.

From the above statement, this condition is violated. So, Case-2 is eliminated.

Floor	Case-1(a)	Case-1(b)
8	C	
7		A
6		D
5	B	B
4	D	
3		
2		C
1	A	

vi) F lives on two floors above C.

From the above statement, there is no place for F in Case-1(a). So, Case-1(a) is eliminated.

Floor	Case-1(b)
8	
7	A
6	D
5	B
4	F
3	
2	C
1	

vii) G lives on one of the floors below E and H lives on one of the floors above G & E.

Floor	Case-1(b)
8	H
7	A
6	D
5	B
4	F
3	E
2	C
1	G

Four people live exactly between C and A.

Hence, 4 is the correct answer.

92. Answer: c

Explanation:

Putting all the signs step by step in place of @ and # we get:

$S \geq Z = R \geq Y; A = Z \geq B = N; N > Y$ is False

$S \geq Z = R < Y; A = Z > B = N; N > Y$ is False

$S \geq Z = R > Y; A = Z < B = N; N > Y$ is True

$S \geq Z = R \leq Y; A = Z \geq B = N; N > Y$ is False

$S \geq Z = R \geq Y; A = Z > B = N; N > Y$ is False

Hence, the correct answer is '>', '<'

93. Answer: c

Explanation:

In $G < H = I = J \rightarrow J = H$

In $H > G > I = J \rightarrow H > J \rightarrow$ so in this statement $H < J$ is definitely false.

In $J = I \geq G > H \rightarrow J > H \rightarrow$ so in this statement $H < J$ is definitely true.

In $H \geq G > I < J \rightarrow$ we can't say whether $H > J$ or $H < J$.

Hence in expression $J = I \geq G > H, H < J$ is definitely true.

94. Answer: a

Explanation:

Let us check each option:

1) $Z > T \geq L$ and $P < A \leq L \rightarrow A \leq T; B \leq T$ and $Z > T \geq L \rightarrow B < Z$ as required

2) $Z > T \geq L$ and $P < A < L \rightarrow A < T$

3) $Z \leq T$ and $B \leq T \rightarrow$ relation between B and Z can't be determined.

4) $Z < T$ and $B = T \rightarrow B > Z$

Hence, $>$, $\leq$, $\leq$ are to be placed so that both $A \leq T$ and $B < Z$ hold definitely true.

95. Answer: b

Explanation:

The pattern followed here is;

As per the English alphabetical series,

$D + 3 = G$; $G + 2 = I$; $I + 2 = K$,

$Z - 3 = W$; $W - 2 = U$; $U - 2 = S$,

$K + 3 = N$; $N + 2 = P$; $P + 2 = R$,

$Q + 3 = T$; $T + 2 = V$; $V + 2 = X$,

$H + 3 = K$; $K + 2 = M$; $M + 2 = O$

Hence, 'ZWUS' is the odd one out.

96. Answer: d

Explanation:

Six teachers: A, B, C, D, E, and F

1) Two teachers will attend the meeting between B and D.

2) B will attend the meeting on 11th of any of the given month but before D.

3) There is no one between C and D attending the meeting.

- 4) Two teachers will attend the meeting between A and F.
- 5) Only one teacher will attend the meeting between F and C.
- 6) C will attend the meeting in August.

Month		Person
January	5th	A
	11th	B
April	5th	E
	11th	F
August	5th	D
	11th	C

Thus, A will attend the meeting on 5th January.

97. Answer: e

Explanation:

Six teachers: A, B, C, D, E, and F

- 1) Two teachers will attend the meeting between B and D.

- 2) B will attend the meeting on 11th of any of the given month but before D.
- 3) There is no one between C and D attending the meeting.
- 4) Two teachers will attend the meeting between A and F.
- 5) Only one teacher will attend the meeting between F and C.
- 6) C will attend the meeting in August.

Month		Person
January	5th	A
	11th	B
April	5th	E
	11th	F
August	5th	D
	11th	C

So, there is only one teacher who attends the meeting between E and G.

98. Answer: e

Explanation:

Six teachers: A, B, C, D, E, and F

- 1) Two teachers will attend the meeting between B and D.
- 2) B will attend the meeting on 11th of any of the given month but before D.
- 3) There is no one between C and D attending the meeting.
- 4) Two teachers will attend the meeting between A and F.
- 5) Only one teacher will attend the meeting between F and C.
- 6) C will attend the meeting in August.

Month		Person
January	5th	A
	11th	B
April	5th	E
	11th	F
August	5th	D
	11th	C

Hence, F will attend the meeting on 11th April.

99. Answer: a

Explanation:

Six teachers: A, B, C, D, E, and F

- 1) Two teachers will attend the meeting between B and D.
- 2) B will attend the meeting on 11th of any of the given month but before D.
- 3) There is no one between C and D attending the meeting.
- 4) Two teachers will attend the meeting between A and F.
- 5) Only one teacher will attend the meeting between F and C.
- 6) C will attend the meeting in August.

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Month		Person
January	5th	A
	11th	B
April	5th	E
	11th	F
August	5th	D
	11th	C

Hence, only one teacher will attend the meeting after D.

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100. Answer: a

Explanation:

Six teachers: A, B, C, D, E, and F

- 1) Two teachers will attend the meeting between B and D.
- 2) B will attend the meeting on 11th of any of the given month but before D.
- 3) There is no one between C and D attending the meeting.
- 4) Two teachers will attend the meeting between A and F.

5) Only one teacher will attend the meeting between F and C.

6) C will attend the meeting in August.

Month		Person
January	5th	A
	11th	B
April	5th	E
	11th	F
August	5th	D
	11th	C

E attends the meeting on 5th April.