



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

IBPS PO 2018 (Prelims) Memory-Based Test (13-Oct-2018) (Shift 1)

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. In the given question a sentence has been divided into five parts. The question is followed by five options which give possible sequences of the rearranged parts. You must choose the option which gives the correct sequence. If the sentence is already arranged correctly, or if none of the given options form the correct sequence, mark option 5, i.e. 'None of the above'. (+1, -0.25)

A- for months, making it

B- to identify it, when it was found

C- wrecked car was unknown

D- the location of the

E- difficult for the police

a. CEADB

b. DCAEB

c. CADEB

d. EBCAD

e. None of the above

2. In the given question a sentence has been divided into five parts. The question is followed by five options which give possible sequences of the rearranged parts. You must choose the option which gives the correct sequence. If the sentence is already arranged correctly, or if none of the given options form the correct sequence, mark option 5, i.e. 'None of the above'. (+1, -0.25)

A- Experience especially for

- B- skydiving is a
- C- people who either have fear
- D- of flying or fear of heights
- E- challenging but thrilling

- a. BEACD
- b. ABCDE
- c. AECDB
- d. BAEDC
- e. None of the above

-
3. In the given question a sentence has been divided into five parts. The question is followed by five options which give possible sequences of the rearranged parts. You must choose the option which gives the correct sequence. If the sentence is already arranged correctly, or if none of the given options form the correct sequence, mark option 5, i.e. 'None of the above'. (+1, -0.25)

- A: Something to do with
- B: Chang's mother is here,
- C: Chang's mien and play
- D: And her attendance may have
- E: The staggering woe of

- a. EDCBA
- b. BEDCA

- c. EACDB
- d. BDAEC
- e. None of the above

4. In the given question a sentence has been divided into five parts. The question is followed by five options which give possible sequences of the rearranged parts. You must choose the option which gives the correct sequence. If the sentence is already arranged correctly, or if none of the given options form the correct sequence, mark option 5, i.e. 'None of the above'. (+1, -0.25)

- A: Resulted in many bad passes, steals
B: Ball-hawking and perpetual movement – three
C: And easy fast-break baskets
D: The defensive coaches taught risk-taking,
E: Strategies that bewildered the opposition and

- a. DBEAC
b. ABEAD
c. DCBEA
d. EDACB
e. None of the above

5. In the given question a sentence has been divided into five parts. The question is followed by five options which give possible sequences of the rearranged parts. You must choose the option which gives the correct (+1, -0.25)

sequence. If the sentence is already arranged correctly, or if none of the given options form the correct sequence, mark option 5, i.e. 'None of the above'.

A: Some as the only animal

B: That can laugh at grief, laugh

C: Humans have been defined by

D: At the pain and tragedy

E: That define their fate

a. CABED

b. CABDE

c. CDEAB

d. CBDAE

e. None of the above

-
6. In the given question a sentence has been divided into five parts. The question is followed by five options which give possible sequences of the rearranged parts. You must choose the option which gives the correct sequence. If the sentence is already arranged correctly, or if none of the given options form the correct sequence, mark option 5, i.e. 'None of the above'. (+1, -0.25)

A: Almost zero, a demographic event

B: In the last five years, European

C: Have profound social implications

D: Population growth has dropped to

E: That in years to come will

- a. BCDAE
- b. BDAEC
- c. ABDEC
- d. CDAEB
- e. None of the above

-
7. In the question, one sentence is given, and four words have been given in bold denoted by (A), (B), (C) and (D). You have to decide, which of the following is inappropriate in context. If all the words are appropriate in the context then mark 'All correct' as your answer. (+1, -0.25)

A microwave heats food by **causing** (A) the molecules to **vertebrate** (B) but it certainly does not make food **radioactive** (C) as **misconception** (D) suggests.

- a. A
- b. B
- c. C
- d. D
- e. All are correct

-
8. In the question, one sentence is given, and four words have been given in bold denoted by (A), (B), (C) and (D). You have to decide, which of the following is inappropriate in context. If all the words are appropriate in the context then mark 'All correct' as your answer. (+1, -0.25)

Indigestion (A) is often a sign of an **underline** (B) problem, such as **ulcers** (C), rather than a **condition** (D) on its own.

- a. A
- b. B
- c. C
- d. D
- e. All are correct

9. In the question, one sentence is given, and four words have been given in bold denoted by (A), (B), (C) and (D). You have to decide, which of the following is inappropriate in context. If all the words are appropriate in the context then mark 'All correct' as your answer. (+1, -0.25)

The country can take a lot of **credit** (A) for **supplying** (B) **affordable** (C) machines to **treat** Tuberculosis (D) around the world.

- a. A
- b. B
- c. C
- d. D
- e. All are correct

10. In the question, one sentence is given, and four words have been given in bold denoted by (A), (B), (C) and (D). You have to decide, which of the following is inappropriate in context. If all the words are appropriate in the context then mark 'All correct' as your answer. (+1, -0.25)

Introverts (A) do not necessarily dislike other people, they just **prefer** (B) smaller crowds, **familiar** (C) faces and less **interaction**. (D).

- a. A
- b. B
- c. C
- d. D
- e. All are correct

11. Read the following passage carefully and answer the questions.

(+1, -0.25)

Unemployment means a situation in which people are willing to work, at the existing rate of wage, but they do not get work. Our country is facing many problems but one of the serious problems is of unemployment. As per the labour bureau **appraisal**, unemployment for the year 2015-2016 was 5 percentage which is an all-time high. For every vacancy, there are dozens of applicants. Out of many candidates who are interviewed, only a few get the job. A student dedicates several years of his life in studies. It is a worry-some condition that even after getting Bachelor's and Master's Degree, the youth of India is facing the problem of unemployment.

The main cause among the educated in India is our faulty system of education. It is not sufficiently related to the socio-economic needs of our people. Moreover, many big industries look for skilled candidates only, for their company. There are a very few technical training institutions in the country, and, secondly, technical education is so costly that common people cannot afford to get their wards admitted in these institutions.

The most immediate of issues is the syllabus. Students are expected to learn long drawn theories and texts with almost no stress on practical application. What they are taught in classes and what is expected of them at the workplace is totally **divergent**.

The system of present education should also be changed radically. The government should keep a strict watch on the education system and try to implement new ways to generate a skilled labour force. Instead of giving only theoretical education the students should be given vocational training so that they can start some work after they finish their education. This institute prepares a student with skill and knowledge for a particular trade. There is a growing demand for skilled people in various industries. This would go a long way in tackling the growing menace of unemployment.

Which of the following is most similar to the word 'appraisal'?

- a. Estimate
- b. Mutiny
- c. Apparent
- d. Subscription
- e. Duty

12. Read the following passage carefully and answer the questions. (+1, -0.25)

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Which of the following is the most opposite in meaning to the word 'divergent'?

- a. Atypical
- b. Parallel
- c. Disparate
- d. Contrary
- e. Conflicting

13. Read the following passage carefully and answer the questions.

(+1, -0.25)

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Which of the following best summarises the above passage?

- a. Colleges do not contribute to a person's employability and therefore being a graduate should not be a criteria for securing a job.

- b. An improvement is needed in the functioning of colleges in order to ensure better employability of it's students.
- c. Colleges need to employ more teachers so that employment of graduates increases.
- d. The educated youth must secure high grades in college in order to ensure employment.
- e. None of the above.

14. Read the following passage carefully and answer the questions.

(+1, -0.25)

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to implement new ways to generate a skilled labour force. Instead of giving only theoretical education the students should be given vocational training so that they can start some work after they finish their education. This institute prepares a student with skill and knowledge for a particular trade. There is a growing demand for skilled people in various industries. This would go a long way in tackling the growing menace of unemployment.

Which of the following is not correct as per the given passage?

- a. It is easier for a person with a master's degree to get a job than it is for a person with just a bachelor's degree.
- b. Syllabus of most colleges is not parallel to practical workplace needs.
- c. 'Skill' is an important criteria for securing a job in most big industries.
- d. The government should work towards improving the present education system.
- e. None of the above.

Your Personal Exams Guide

15. Read the following passage carefully and answer the questions.

(+1, -0.25)

Unemployment means a situation in which people are willing to work, at the existing rate of wage, but they do not get work. Our country is facing many problems but one of the serious problems is of unemployment. As per the labour bureau **appraisal**, unemployment for the year 2015-2016 was 5 percentage which is an all-time high. For every vacancy, there are dozens of applicants. Out of many candidates who are interviewed, only a few get the job. A student dedicates several years of his life in studies. It is a worry-some condition that even after getting Bachelor's and Master's Degree, the youth of India is facing the problem of unemployment.

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Which of the following is a criterion of unemployment?

- a. Not willing to work at existing rate of wage.
- b. Willing to work at existing rate of wage but not getting work
- c. Not willing to work at existing rate of wage and not getting work
- d. Willing to work at lower rate of wage but not getting work
- e. None of the above

16. Read the following passage carefully and answer the questions.

(+1, -0.25)

Unemployment means a situation in which people are willing to work, at the existing rate of wage, but they do not get work. Our country is facing many problems but one of the serious problems is of unemployment. As per the labour bureau **appraisal**, unemployment for the year 2015–2016 was 5 percentage which is an all-time high. For every vacancy, there are dozens of applicants. Out of many candidates who are interviewed, only a few get the job. A student dedicates several years of his life in studies. It is a worry-some condition that even after getting Bachelor's and Master's Degree, the youth of India is facing the problem of unemployment.

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What according to the author is the major reason for unemployment?

- a. Students focus more on theories taught in the syllabus.
- b. Negligence on the part of the government.

- c. Lack of industrial skills among students and such skills not being imparted during college years.
- d. Skewed student teacher ratio in most colleges.
- e. None of the above

17. Read the following passage carefully and answer the questions.

(+1, -0.25)

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This institute prepares a student with skill and knowledge for a particular trade. There is a growing demand for skilled people in various industries. This would go a long way in tackling the growing menace of unemployment.

What makes the education system of India faulty?

- a. It is not sufficiently related to the socio-economic needs of the people
- b. Very few technical training institutes in the country. The existing ones are too costly for most people to afford.
- c. Syllabus is not as per industrial needs.
- d. Colleges emphasize theoretical knowledge over technical skills.
- e. All of the above.

18. In the following question, a word has been given. Choose the sentence(s) (+1, -0.25) in which it is used correctly and if all the sentences are correct then choose Option 5.

Adage

- (A) Among other things, Ben Franklin is famous for developing an adage to go with each of his philosophical ideals.
 - (B) Murphy's Law is a good example of an adage that takes a pessimistic view of life.
 - (C) The adage of gold led many people to travel to Texas by wagon.
- a. Only A
 - b. Only B

- c. Only C
 - d. Both A and B
 - e. All correct
-

19. In the following question, a word has been given. Choose the sentence(s) (+1, -0.25) in which it is used correctly.

Hamper

- (A) Although the pain medication has its benefits, it can also hamper the body's capacity to break down toxins.
- (B) Hamper and plain, the woman was known for her delicious cooking but not her looks.
- (C) The runner hamper tossed the baton to his teammate who took off toward the finish line.

- a. Only A
 - b. Only B
 - c. Only C
 - d. Both A and B
 - e. All are correct
-

20. In the following question, a word has been given. Choose the sentence(s) (+1, -0.25) in which it is used correctly.

Tact

(A) Because he lacks discretion and tact, most of the things my brother says comes off as offensive.

(B) Even though Vincent van Gogh was an extremely tactful artist, he only sold one painting during his lifetime.

(C) Andrew is a man of great tact and is a skilled speaker when it comes to diplomacy.

- a. Only A
- b. Only B
- c. Only C
- d. Both A and C
- e. All are correct

21. In the following question, a word has been given. Choose the sentence(s) in which it is used correctly. (+1, -0.25)

Trauma

(A) The three girl's voices created a beautiful trauma over the loudspeaker.

(B) The trauma of spices was mixed in, with one of the three being pepper.

(C) The trauma of living in a concentration camp was a suffering that the survivors couldn't get over easily.

- a. Only A
- b. Only B
- c. Only C

- d. Both A and B
- e. All are correct

22. In the following sentence, one phrase has been printed in bold. Below the sentence, three meanings are given. Select the correct meaning of the phrase from the options given below. (+1, -0.25)

These trades churned out in ever more massive quantities a **myriad of things** for personal and domestic adornment and use.

1. A countless or extremely great number of possibilities or options.
2. Limited or restricted options.
3. Things belonging to different countries.

- a. Only A
- b. Only B
- c. Only C
- d. Both B and C
- e. Both A and C

23. In the following sentence, one phrase has been printed in bold. Below the sentence, three meanings are given. Select the correct meaning of the phrase from the options given below. (+1, -0.25)

To us, in those years, Europe seemed almost as remote and **hard to reach** as the moon.

1. Something that is distant.
2. Something that is unattainable.
3. Something that is within our grasp.

- a. Only A
- b. Only B
- c. Only C
- d. Both A and B
- e. Both A and C

24. In the following sentence, one phrase has been printed in bold. Below the sentence, three meanings are given. Select the correct meaning of the phrase from the options given below. (+1, -0.25)

The cows were **not producing enough** milk and they also stopped lactating when the calf was not nursing.

- 1. Not available at the right time.
- 2. Not producing as much as required.
- 3. Not belonging to any place or process

- a. Only A
- b. Only B
- c. Only C
- d. Both A and B
- e. All A, B and C

25. In the following sentence, one phrase has been printed in bold. Below the sentence, three meanings are given. Select the correct meaning of the phrase from the options given below. (+1, -0.25)

He was against the idea to start with, but he soon **changed his tune** when he realized how much money he'd get.

1. Changing your behavior
2. Changing your mind
3. Strategically correct

- a. Only A
- b. Only B
- c. Both B and C
- d. Both A and C
- e. All A, B and C

-
26. In the following question, two columns are given containing incomplete sentences. In the first column, the phrases are (A), (B), and (C), and in the second column the phrases are (D), (E), and (F). You have to match the phrases of column (1) with those of column (2) and make grammatically and contextually correct sentences. If none of the options given forms a correct sentence after combination, select 'None of these' as your answer. (+1, -0.25)

Column (1)	Column (2)
A-If a man does not keep pace with his companions,	D-Stuart was often hard to find around the house
B-Her mom came home tired	E-perhaps it is because he hears a different drummer
C-Because he is so small,	F-but she still cooked dinner for her family

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

27. In the following question, two columns are given containing incomplete sentences. In the first column, the phrases are (A), (B), and (C), and in the second column the phrases are (D), (E), and (F). You have to match the phrases of column (1) with those of column (2) and make grammatically and contextually correct sentences. If none of the given options form a correct sentence after combination, select 'None of these' as your answer. (+1, -0.25)

Column (1)	Column (2)
A-My father used a dilatory strategy to keep me out of the house	D-evolution progresses
B-As genes change over time,	E-While my mother arranged my surprise birthday party
C-When I came into light after emerging from the dark depths of the cave	F-I only wanted two things: soap and water.

- a. A-F
- b. B-E
- c. C-D
- d. A-E, B-D and C-F
- e. None of these

28. In the following question, two columns are given containing incomplete sentences. In the first column, the phrases are (A), (B), and (C), and in the second column the phrases are (D), (E), and (F). You have to match the phrases of column (1) with those of column (2) and make grammatically and contextually correct sentences. If none of the options given forms a correct sentence after combination, select 'None of these' as your answer. (+1, -0.25)

Column (1)	Column (2)
A-When the soldiers put dynamite under the bridge,	D-they hoped it would enervate the foundation to the point of collapse
B-When Kyle died, nobody missed him because	E-he was a bully who liked to enervate women by hitting them
C-While the writing appeared simple, its meaning was esoteric	F-in the fact only a number of scholars could comprehend it.

a. A-F

b. B-E

c. C-E

d. A-E

e. None of these

29. In the following question, two columns are given containing incomplete sentences. In the first column, the phrases are (A), (B), and (C), and in the second column the phrases are (D), (E), and (F). You have to match the phrases of column (1) with those of column (2) and make grammatically and contextually correct sentences. If none of the options given forms a correct sentence after combination, select 'None of these' as your answer. (+1, -0.25)

Column 1	Column 2
A-Because of advances in DNA testing, the police can now conduct	D- he started a crusade to rid his city of illegal drugs
B-When the mayor learned his son was killed by a drug leader	E- he bet all his savings on the game
C-His football team would pulverize its opponent	F- a belated investigation into the unsolved murder

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

30. In the following question, two columns are given containing incomplete sentences. In the first column, the phrases are (A), (B), and (C), and in the second column the phrases are (D), (E), and (F). You have to match the phrases of column (1) with those of column (2) and make grammatically and contextually correct sentences. If none of the options given forms a correct sentence after combination, select 'None of these' as your answer. (+1, -0.25)

Column 1	Column 2
A-The accidental firing of the missile broke the armistice	D-and destroyed the chance of peace between the two nations
B-After a year of fighting, the two armies agreed to an armistice	E- do not realise they could be down-and-out too
C-People who think homeless people are dregs of society	F-would allow the soldiers to rest on Christmas day

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

Numerical Ability

31. **Direction:** The given table shows the shirts produced in 4 years by a company. Read the given table carefully and answer the given questions. (+1, -0.25)

Year	No. of Shirts produced (in lakh)	% of shirts failed the quality test
2014	3.2	2.5%
2015	4.0	2.25%
2016	2.8	1.25%
2017	3.6	1.25%

Shirts which failed the quality test were not sold

In 2016, if 2300 formal shirts produced failed the quality test and 99% of informal shirts passed the quality test, what was the respective ratio between number of formal shirts to informal shirts in 2016?

- a. 4 : 3
- b. 3 : 4
- c. 8 : 7
- d. 7 : 8
- e. None of the above

32. **Direction:** The given table shows the shirts produced in 4 years by a company. Read the given table carefully and answer the given questions. (+1, -0.25)

Year	No. of Shirts produced (in lakh)	% of shirts failed the quality test
2014	3.2	2.5%
2015	4.0	2.25%
2016	2.8	1.25%
2017	3.6	1.25%

Shirts which failed the quality test were not sold

Average number of shirts that passed the quality test in 2016 and in 2017 is:

- a. 324000
- b. 321000
- c. 306000
- d. 316000
- e. 308000

33. **Direction:** The given table shows the shirts produced in 4 years by a company. Read the given table carefully and answer the given questions. (+1, -0.25)

Year	No. of Shirts produced (in lakh)	% of shirts failed the quality test
2014	3.2	2.5%
2015	4.0	2.25%
2016	2.8	1.25%
2017	3.6	1.25%

Shirts which failed the quality test were not sold

Number of shirts that failed quality test reduced by what percent in 2017 compared to 2014?

- a. $66\frac{2}{3}\%$
- b. $62\frac{1}{2}\%$
- c. $56\frac{1}{4}\%$
- d. $43\frac{3}{4}\%$
- e. $37\frac{1}{2}\%$

34. Direction: The given table shows the shirts produced in 4 years by a company. Read the given table carefully and answer the given questions. (+1, -0.25)

Year	No. of Shirts produced (in lakh)	% of shirts failed the quality test
2014	3.2	2.5%
2015	4.0	2.25%
2016	2.8	1.25%
2017	3.6	1.25%

Shirts which failed the quality test were not sold

In 2015, 40% shirts were white and remaining were coloured. How many were coloured shirts?

- a. 240000
- b. 246000
- c. 180000
- d. 228000
- e. None of the above

35. **Direction:** The given table shows the shirts produced in 4 years by a company. Read the given table carefully and answer the given questions. (+1, -0.25)

Year	No. of Shirts produced (in lakh)	% of shirts failed the quality test
2014	3.2	2.5%
2015	4.0	2.25%
2016	2.8	1.25%
2017	3.6	1.25%

Shirts which failed the quality test were not sold

In 2015, 10% of the shirts that passed the quality test remained unsold.
How many remain unsold?

a. 48,100

b. 39,100

c. 44,500

d. 47,100

e. 50,200

36. **Direction:** The given table shows the shirts produced in 4 years by a company. Read the given table carefully and answer the given questions. (+1, -0.25)

Year	No. of Shirts produced (in lakh)	% of shirts failed the quality test
2014	3.2	2.5%
2015	4.0	2.25%
2016	2.8	1.25%
2017	3.6	1.25%

Shirts which failed the quality test were not sold

In 2014, all shirts which passed the quality test were sold at an average price of Rs. 500 per shirt. What was the revenue of the time that year? (in crore)

- a. 1.56
- b. 15.6
- c. 5.6
- d. 12.8
- e. None of the above

37. Ram drives from A to B by car at 90 km/h. He goes to C from B by bike at 60 km/h. The distance between A and C is 200 km, while the average speed between A and C is 75 km/h. What is the distance traveled by car? (+1, -0.25)
- a. 90 km

- b. 80 km
- c. 75 km
- d. 120 km
- e. 60 km

38. 200 and 180 students of school A & B passed the exam. 20% and 10% students from A and B did not pass the exam. How many students appeared in the exam from both the schools? (+1, -0.25)

- a. 420
- b. 360
- c. 450
- d. 400
- e. 480

39. Ram sold 2 items A and B at the same price. Profit on one and incurring loss on the other. Ratio between the total S.P. of both items together and total cost price of both items together is 30 : 37. If he earns 25% profit on selling A, what was the loss incurred in selling of B in Rs. 600? (+1, -0.25)

- a. Rs. 450
- b. Rs. 400
- c. Rs. 300
- d. Rs. 360

e. Rs. 200

40. The volume of a cylinder is 500π and the radius is 5 cm. The height of the cylinder is equal to the diagonal of a square. Find the perimeter of the square. (+1, -0.25)

a. $40\sqrt{2}$ cm

b. 40 cm

c. $10\sqrt{2}$ cm

d. $80\sqrt{2}$ cm

e. 10 cm

41. A alone can do a work in 20 days. B is 25% more efficient than A. A and B started working and worked for 4 days. If C alone completed the remaining job in 22 days. How many days C alone takes to complete the entire job? (+1, -0.25)

a. 24 days

b. 36 days

c. 12 days

d. 20 days

e. 40 days

42. A bag contains X red balls and 5 green balls. 2 balls are picked up from the bag at random, one after the other, without replacement, the probability of both balls being red is $\frac{3}{7}$. What will be the value of X? (+1, -0.25)

- a. 10
- b. 15
- c. 13
- d. 20
- e. None of the above

-
43. Rs. 7000 divided unequally and invested in scheme A (offered C.I. at 10% p.a. compounded annually) and in scheme B (offered S.I. at 15% p.a.) for 2 years and 3 years respectively. If the investment earned from scheme A is 84% of the investment earned from scheme B. Find the sum invested in scheme A. (+1, -0.25)
- a. Rs. 4500
 - b. Rs. 2500
 - c. Rs. 3500
 - d. Rs. 4000
 - e. Rs. 3600

-
44. In the following question, two equations are given. You have to solve both the equations and find the relation between 'x' and 'y' and mark the correct answer. (+1, -0.25)
- A. $x^2 - 16x + 63 = 0$
- B. $y^2 - 19y + 88 = 0$
- a. if $x > y$

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

45. In the following question, two equations are given. You have to solve both the equations and find the relation between 'x' and 'y' and mark the correct answer. (+1, -0.25)

A. $x^2 - 36x + 324 = 0$

B. $y^2 - 42y + 441 = 0$

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

46. In the following question, two equations are given. You have to solve both the equations and find the relation between 'x' and 'y' and mark the correct answer. (+1, -0.25)

A. $x^2 - 10x + 25 = 0$

B. $y^2 = 25$

- a. if $x > y$

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

47. In the following question, two equations are given. You have to solve both the equations and find the relation between 'x' and 'y' and mark the correct answer. (+1, -0.25)

A. $x^2 + 12x + 35 = 0$

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

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

48. In the following question, two equations are given. You have to solve both the equations and find the relation between 'x' and 'y' and mark the correct answer. (+1, -0.25)

A. $3x^2 - 7x + 4 = 0$

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

- a. if $x > y$

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

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

I. $2x^2 + 5x + 3 = 0$

II. $2y^2 - 7y + 6 = 0$

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

50. Direction: A salon distributed 450 vouchers of free haircut and pedicure. (+1, -0.25)
The number of haircut vouchers was 130 more than the number of pedicure voucher. The ratio between the male and female getting the pedicure voucher is 13 : 7. The number of vouchers redeemed by males for haircut was 15 more than that of vouchers redeemed by males for a pedicure.

Note: All vouchers were redeemed.

What is the difference between the male and female getting the pedicure voucher?

- a. 48
- b. 42
- c. 54
- d. 36
- e. 60

51. **Direction:** A salon distributed 450 vouchers of free haircut and pedicure. (+1, -0.25)

The number of haircut vouchers was 130 more than the number of pedicure voucher. The ratio between the male and female getting the pedicure voucher is 13 : 7. The number of vouchers redeemed by males for haircut was 15 more than that of vouchers redeemed by males for a pedicure.

Note: All vouchers were redeemed.

How many people redeemed the haircut voucher?

- a. 300
- b. 160
- c. 290
- d. 280
- e. 310

52. **Direction:** A salon distributed 450 vouchers of free haircut and pedicure. (+1, -0.25)
The number of haircut vouchers was 130 more than the number of pedicure voucher. The ratio between the male and female getting the pedicure voucher is 13 : 7. The number of vouchers redeemed by males for haircut was 15 more than that of vouchers redeemed by males for a pedicure.

Note: All vouchers were redeemed.

How many males redeemed the pedicure voucher?

- a. 91
- b. 104
- c. 117
- d. 130
- e. 78

53. **Direction:** A salon distributed 450 vouchers of free haircut and pedicure. (+1, -0.25)
The number of haircut vouchers was 130 more than the number of pedicure voucher. The ratio between the male and female getting the pedicure voucher is 13 : 7. The number of vouchers redeemed by males for haircut was 15 more than that of vouchers redeemed by males for a pedicure.

Note: All vouchers were redeemed.

If 30 people having pedicure voucher took manicure services and 50% people having haircut voucher took manicure voucher services then how many people took manicure services?

- a. 145

- b. 155
- c. 165
- d. 135
- e. 175

54. Direction: A salon distributed 450 vouchers of free haircut and pedicure. (+1, -0.25)
The number of haircut vouchers was 130 more than the number of pedicure voucher. The ratio between the male and female getting the pedicure voucher is 13 : 7. The number of vouchers redeemed by males for haircut was 15 more than that of vouchers redeemed by males for a pedicure.

Note: All vouchers were redeemed.

Number of females redeeming pedicure voucher are what percent(approximate) of number of people redeeming haircut voucher?

- a. 21%
- b. 19%
- c. 18%
- d. 16%
- e. 22%

55. In the following series one number is wrong, Find out the wrong number. (+1, -0.25)

201, 200, 194, 184, 167, 141, 104

- a. 201

- b. 200
 - c. 184
 - d. 167
 - e. 104
-

56. In the following series one number is wrong, Find out the wrong number. (+1, -0.25)

53.9, 52.7, 50.3, 46.7, 40.9, 35.9, 28.7

- a. 52.7
 - b. 40.9
 - c. 35.9
 - d. 28.7
 - e. 53.9
-

57. In the following series one number is wrong, Find out the wrong number. (+1, -0.25)

9, 12, 71, 158, 259, 368, 478.5

- a. 478.5
 - b. 71
 - c. 158
 - d. 259
 - e. 368
-

58. In the following series one number is wrong, Find out the wrong number. (+1, -0.25)

5, 4, 7, 20, 79, 395, 2363

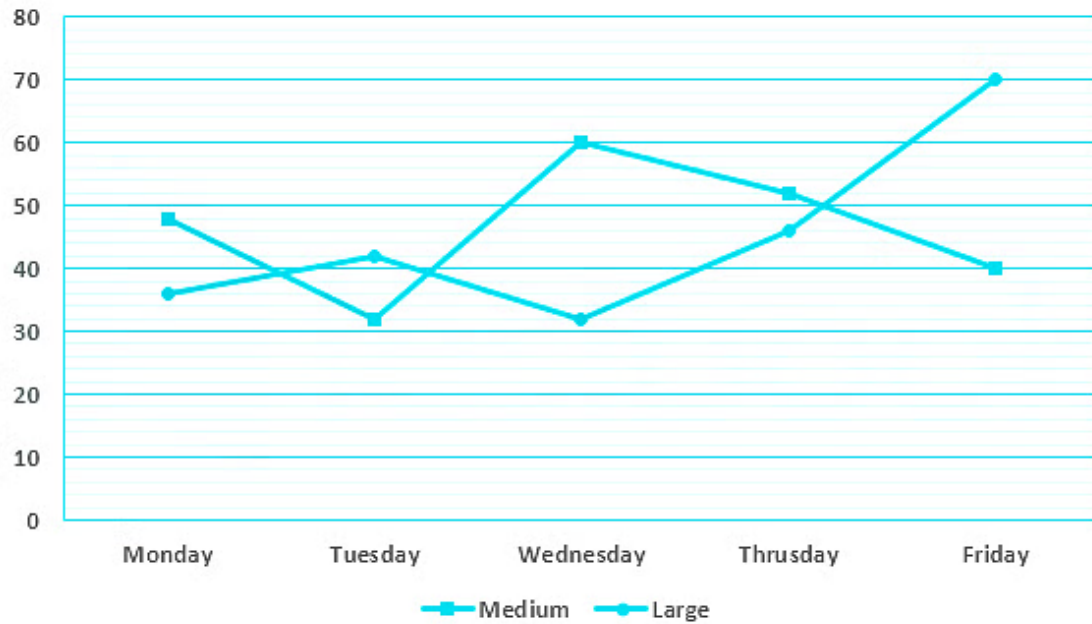
- a. 4
- b. 7
- c. 79
- d. 395
- e. 2363

59. In the following series one number is wrong, Find out the wrong number. (+1, -0.25)

16, 4, 8, 12, 24, 60, 180

- a. 16
- b. 4
- c. 12
- d. 60
- e. 180

60. **Direction:** Sale of vox boxes on different days by ABC company. (+1, -0.25)

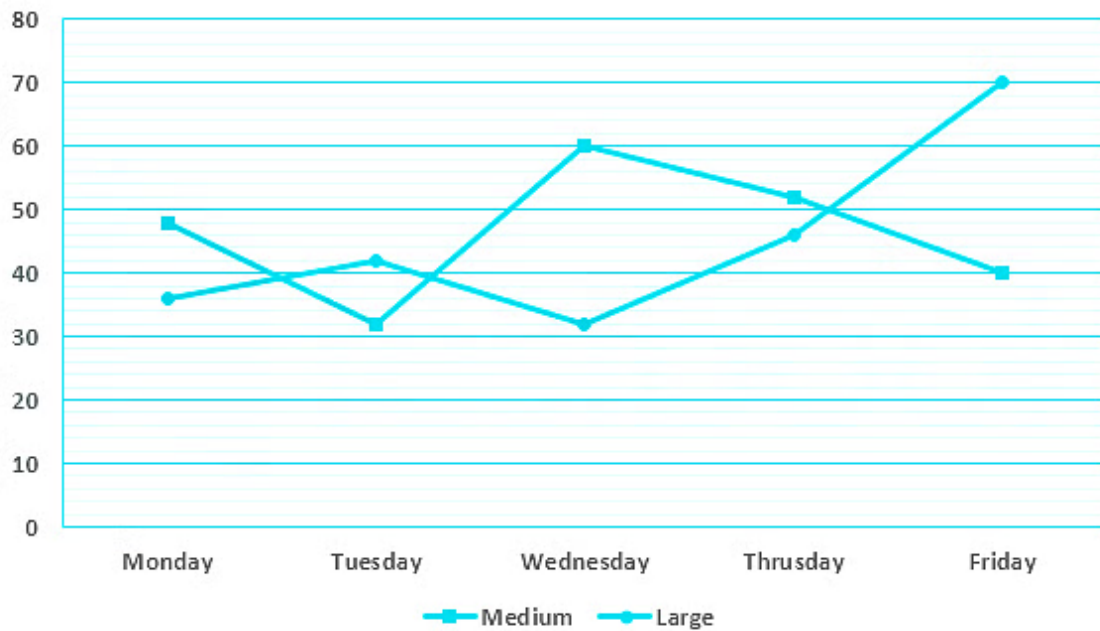


Boxes sold on Tuesday of both sizes are what percent of large size boxes sold on Friday?

- a. 100%
- b. 105.71%
- c. 110%
- d. 115.71%
- e. 105%

61. **Direction:** Sale of wax boxes on different days by ABC company.

(+1, -0.25)

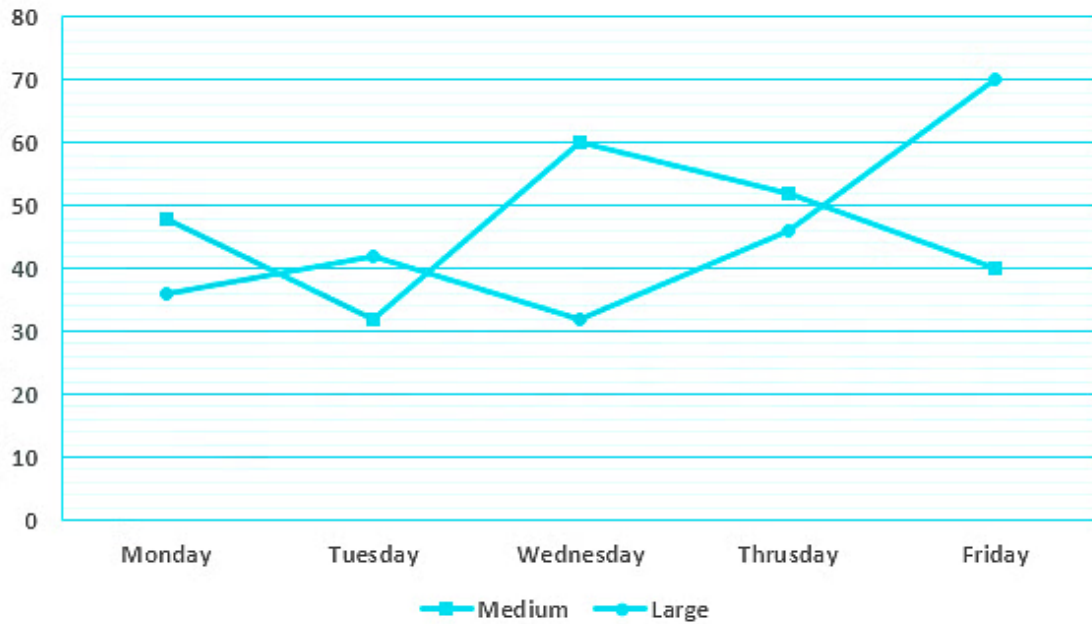


What is the difference between medium size wax box sold on Monday and large size wax box sold on Thursday?

- a. 2
- b. 1
- c. 0
- d. 3
- e. 4

62. **Direction:** Sale of wax boxes on different days by ABC company.

(+1, -0.25)

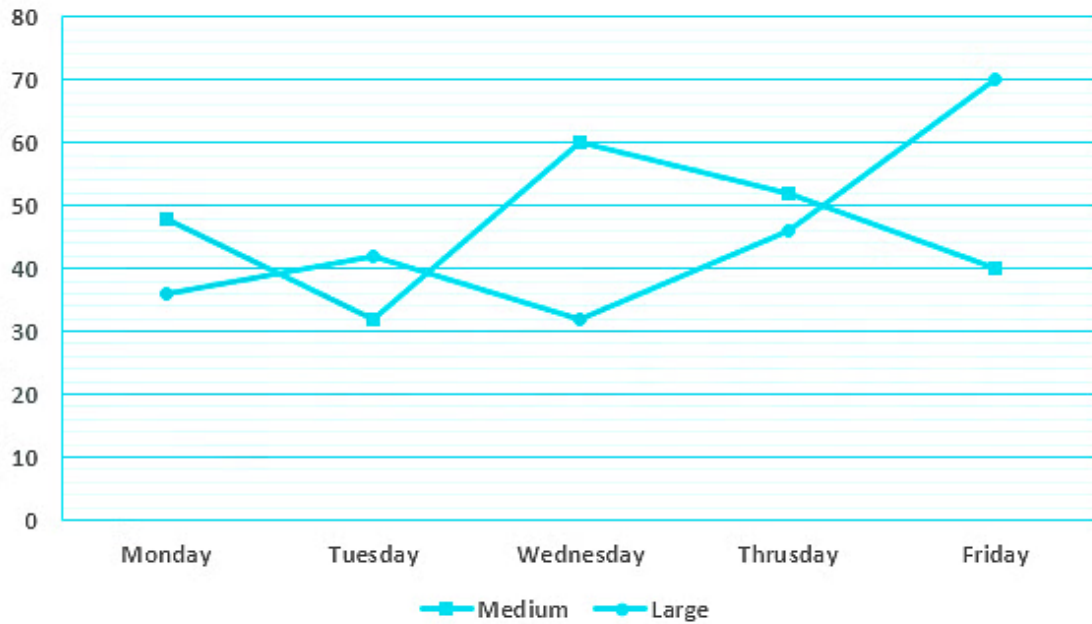


Find the ratio between large size wax box sold on Wednesday and medium size wax box sold on Tuesday.

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

63. **Direction:** Sale of wax boxes on different days by ABC company.

(+1, -0.25)

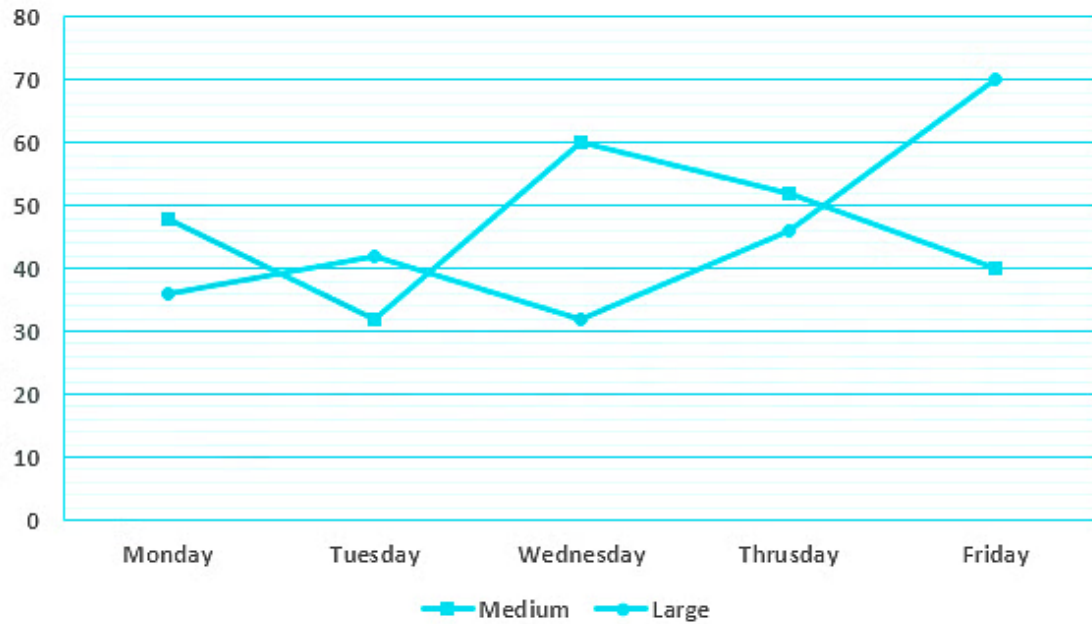


What is the average of medium size wax box sold on Monday, Thursday and Friday?

- a. 45.67
- b. 47.67
- c. 44.67
- d. 46.67
- e. 48.67

64. **Direction:** Sale of wax boxes on different days by ABC company.

(+1, -0.25)

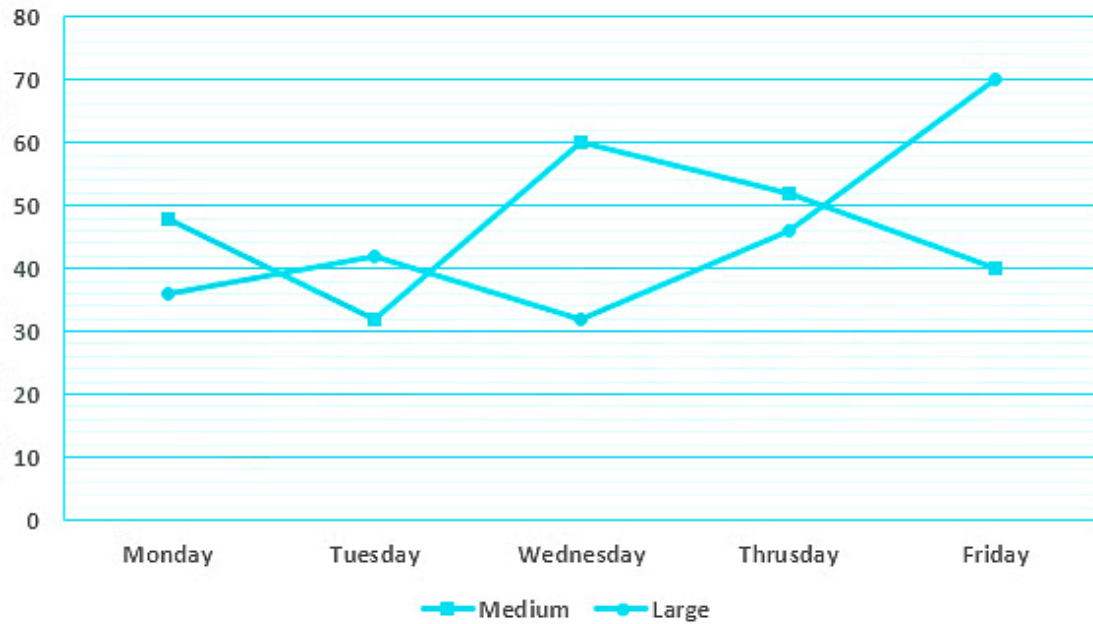


Total boxes sold on Monday are what percent of total boxes sold on Thursday?

- a. 75.7%
- b. 77.7%
- c. 87.5%
- d. 95.7%
- e. 85.7%

65. **Direction:** Sale of vox boxes on different days by ABC company.

(+1, -0.25)



How many large size vox boxes were sold on all the days?

- a. 226
- b. 216
- c. 206
- d. 196
- e. 236

Reasoning Ability

66. Study the following information carefully and answer the question given below it. (+1, -0.25)

Few people are sitting in a row facing North. 3 persons are sitting between M and N. K is third to the right of N. K is second to the left of P. Number of person between M and P is same as the number of person between M and L. Only three person sit to the left of L. Six person sits between L and J. Two person sit between P and R. R is sitting at second position from one of the end.

How many persons are sitting in the row?

- a. 12
- b. 26
- c. 29
- d. 18
- e. None of these

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67. Study the following information carefully and answer the question given below it. (+1, -0.25)

Few people are sitting in a row facing North. 3 persons are sitting between M and N. K is third to the right of N. K is second to the left of P. Number of person between M and P is same as the number of person between M and L. Only three person sit to the left of L. Six person sits between L and J. Two person sit between P and R. R is sitting at second position from one of the end.

What is the position of J with respect to M?

- a. 2nd to the left
- b. Immediate right
- c. Immediate left
- d. 2nd to the right
- e. None of these

68. Study the following information carefully and answer the question given below it. (+1, -0.25)

Few people are sitting in a row facing North. 3 persons are sitting between M and N. K is third to the right of N. K is second to the left of P. Number of person between M and P is same as the number of person between M and L. Only three person sit to the left of L. Six person sits between L and J. Two person sit between P and R. R is sitting at second position from one of the end.

How many persons are sitting between M and P?

- a. 5
- b. 6
- c. 7
- d. 8
- e. 9

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

C, D, H, N, F, S and U are seven members of a family. D is the mother of F, N is the son of F. H is the only sister of N and U, S is the father of U. S is the son of C.

If P is the father-in-law of F, then how is C related to U?

- a. Mother
- b. Grandmother
- c. Father
- d. Granddaughter
- e. Grandson

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

C, D, H, N, F, S and U are seven members of a family. D is the mother of F, N is the son of F. H is the only sister of N and U, S is the father of U. S is the son of C.

How is H related to F?

- a. Daughter
 - b. Niece
 - c. Son
 - d. Father
 - e. None of these
-

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

C, D, H, N, F, S and U are seven members of a family. D is the mother of F, N is the son of F. H is the only sister of N and U, S is the father of U. S is the son of C.

How is N related to D?

- a. Daughter
- b. Son
- c. Granddaughter
- d. Grandson
- e. Son-in-law

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

There are 9 boxes kept one above the other. There are 5 boxes between box P and box R. Box T is kept immediately above R. 3 boxes are kept between box T and box S. Number of boxes between P and S is same as the number of boxes between T and Q. Box U is kept below box Q. Box W is kept somewhere below X. There is only one box kept between U and V. Box U is not kept at the bottom of the stack.

Which of the following statement is not true?

- I. Two boxes between T and Q.
- II. S is kept below W.
- III. U is kept immediately above P.

- a. Only I
- b. Only II
- c. Only III
- d. Both I and II
- e. Both II and III

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

There are 9 boxes kept one above the other. There are 5 boxes between box P and box R. Box T is kept immediately above R. 3 boxes are kept between box T and box S. Number of boxes between P and S is same as the number of boxes between T and Q. Box U is kept below box Q. Box W is kept somewhere below X. There is only one box kept between U and V. Box U is not kept at the bottom of the stack.

V is related P and Q is related to X in certain manner. To which of the following is U related in the same manner?

- a. R
- b. W
- c. S
- d. T
- e. None of these

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

There are 9 boxes kept one above the other. There are 5 boxes between box P and box R. Box T is kept immediately above R. 3 boxes are kept between box T and box S. Number of boxes between P and S is same as the number of boxes between T and Q. Box U is kept below box Q. Box W is kept somewhere below X. There is only one box kept between U and V. Box U is not kept at the bottom of the stack.

How many boxes are kept between X and P?

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

75. Directions: Read the following information carefully and answer the question given below it: (+1, -0.25)

There are 9 boxes kept one above the other. There are 5 boxes between box P and box R. Box T is kept immediately above R. 3 boxes are kept between box T and box S. Number of boxes between P and S is same as the number of boxes between T and Q. Box U is kept below box Q. Box W is kept somewhere below X. There is only one box kept between U and V. Box U is not kept at the bottom of the stack.

Which of the following pair of box is kept immediately above and below box Q respectively?

- a. X and S
- b. X and W
- c. S and R

d. S and W

e. R and X

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

There are 9 boxes kept one above the other. There are 5 boxes between box P and box R. Box T is kept immediately above R. 3 boxes are kept between box T and box S. Number of boxes between P and S is same as the number of boxes between T and Q. Box U is kept below box Q. Box W is kept somewhere below X. There is only one box kept between U and V. Box U is not kept at the bottom of the stack.

What is the position of box W in the given arrangement?

a. Third from the bottom

b. Fourth from the top

c. Fifth from top

d. Six from the bottom

e. Fourth from the bottom

77. **Direction:** Read the following information carefully and answer the question given below it: (+1, -0.25)

8 person P, Q, R, S, T, U, V, and W were born in different years viz. 1945, 1956, 1961, 1973, 1978, 1989, 1996 and 2007 but not necessarily in the same order.

S was born in an odd number year. The difference between the present age of S and V is 5. Only 3 people were born between V and T. The present age of W is twice the present age of Q. As many people were born

between T and Q as between T and P. R was born in one of the years before P.

(Calculate all ages with respect to the year 2018).

In which year was R born?

- a. 1945
- b. 1961
- c. 1973
- d. 1989
- e. 2007

78. Direction: Read the following information carefully and answer the question given below it: (+1, -0.25)

8 person P, Q, R, S, T, U, V, and W were born in different years viz. 1945, 1956, 1961, 1973, 1978, 1989, 1996 and 2007 but not necessarily in the same order.

S was born in an odd number year. The difference between the present age of S and V is 5. Only 3 people were born between V and T. The present age of W is twice the present age of Q. As many people were born between T and Q as between T and P. R was born in one of the years before P.

(Calculate all ages with respect to the year 2018).

What is the age of U?

- a. 62
- b. 57
- c. 22

d. 40

e. 73

79. Direction: Read the following information carefully and answer the question given below it: (+1, -0.25)

8 person P, Q, R, S, T, U, V, and W were born in different years viz. 1945, 1956, 1961, 1973, 1978, 1989, 1996 and 2007 but not necessarily in the same order.

S was born in an odd number year. The difference between the present age of S and V is 5. Only 3 people were born between V and T. The present age of W is twice the present age of Q. As many people were born between T and Q as between T and P. R was born in one of the years before P.

(Calculate all ages with respect to the year 2018).

What is the difference between the ages of S and R?

a. 17

b. 18

c. 19

d. 16

e. 15

80. Direction: Read the following information carefully and answer the question given below it: (+1, -0.25)

8 person P, Q, R, S, T, U, V, and W were born in different years viz. 1945, 1956, 1961, 1973, 1978, 1989, 1996 and 2007 but not necessarily in the same order.

S was born in an odd number year. The difference between the present age of S and V is 5. Only 3 people were born between V and T. The present age of W is twice the present age of Q. As many people were born between T and Q as between T and P. R was born in one of the years before P.

(Calculate all ages with respect to the year 2018).

Who was born before W but after U?

- a. T
- b. P
- c. S
- d. V
- e. R

81. **Direction:** Read the following information carefully and answer the question given below it: (+1, -0.25)

8 person P, Q, R, S, T, U, V, and W were born in different years viz. 1945, 1956, 1961, 1973, 1978, 1989, 1996 and 2007 but not necessarily in the same order.

S was born in an odd number year. The difference between the present age of S and V is 5. Only 3 people were born between V and T. The present age of W is twice the present age of Q. As many people were born between T and Q as between T and P. R was born in one of the years before P.

(Calculate all ages with respect to the year 2018).

What will be the age of S after 4 years?

- a. 60

- b. 77
- c. 61
- d. 62
- e. 76

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

Seven people –G, H, J, K, L, M and N are sitting in a row at equal distances to each other and facing north direction. All of them likes different chocolates – Snickers, Dairy milk, Milky bar, 5-star, Kit Kat, Aero and Bar one (not necessarily in the same order). J is sitting exactly in the middle of the row but neither likes Dairy milk nor Bar-one. The one who likes Snickers is sitting sixth to the left of the one who likes Milky bar. G is sitting with the one who likes Milky bar. H is not sitting with J but likes 5-star. M and N are not sitting at any of the extreme ends. K does not like Milky bar. N neither likes Kit Kat nor is sitting with G. The one who likes Bar one is sitting to the immediate left of the one who likes Dairy milk

Who among the following likes Kit Kat?

- a. G
- b. J
- c. K
- d. L
- e. M

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

Seven people –G, H, J, K, L, M and N are sitting in a row at equal distances to each other and facing north direction. All of them likes different chocolates – Snickers, Dairy milk, Milky bar, 5-star, Kit Kat, Aero and Bar one (not necessarily in the same order). J is sitting exactly in the middle of the row but neither likes Dairy milk nor Bar-one. The one who likes Snickers is sitting sixth to the left of the one who likes Milky bar. G is sitting with the one who likes Milky bar. H is not sitting with J but likes 5-star. M and N are not sitting at any of the extreme ends. K does not like Milky bar. N neither likes Kit Kat nor is sitting with G. The one who likes Bar one is sitting to the immediate left of the one who likes Dairy milk

Which of the following chocolate does 'G' like?

- a. Aero
- b. Bar one
- c. Dairy milk
- d. Kit Kat
- e. Snickers

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

Seven people –G, H, J, K, L, M and N are sitting in a row at equal distances to each other and facing north direction. All of them likes different chocolates – Snickers, Dairy milk, Milky bar, 5-star, Kit Kat, Aero and Bar one (not necessarily in the same order). J is sitting exactly in the middle of the row but neither likes Dairy milk nor Bar-one. The one who likes Snickers is sitting sixth to the left of the one who likes Milky bar. G is sitting with the one who likes Milky bar. H is not sitting with J but likes 5-star. M and N are not sitting at any of the extreme ends. K does not like Milky bar. N neither likes Kit Kat nor is sitting with G. The one who likes Bar one is sitting to the immediate left of the one who likes Dairy milk

Which of the following statements is true with respect to K?

- a. K does not like Snickers.
- b. K is sitting at the extreme right end.
- c. K is sitting between H and J.
- d. K likes Aero.
- e. K is sitting fourth to the left of M.

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

Seven people –G, H, J, K, L, M and N are sitting in a row at equal distances to each other and facing north direction. All of them likes different chocolates – Snickers, Dairy milk, Milky bar, 5-star, Kit Kat, Aero and Bar one (not necessarily in the same order). J is sitting exactly in the middle of the row but neither likes Dairy milk nor Bar-one. The one who likes Snickers is sitting sixth to the left of the one who likes Milky bar. G is sitting with the one who likes Milky bar. H is not sitting with J but likes 5-star. M and N are not sitting at any of the extreme ends. K does not like Milky bar. N neither likes Kit Kat nor is sitting with G. The one who likes Bar one is sitting to the immediate left of the one who likes Dairy milk

Which of the following statements is not true as per the given details?

- a. M likes Bar one.
- b. J is sitting between M and N.
- c. L is sitting third to the right of J.
- d. The one who likes 5-star is sitting with the one who likes Kit Kat.
- e. L like Milky Bar.

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

Seven people –G, H, J, K, L, M and N are sitting in a row at equal distances to each other and facing north direction. All of them likes different chocolates – Snickers, Dairy milk, Milky bar, 5-star, Kit Kat, Aero and Bar one (not necessarily in the same order). J is sitting exactly in the middle of the row but neither likes Dairy milk nor Bar-one. The one who likes Snickers is sitting sixth to the left of the one who likes Milky bar. G is sitting with the one who likes Milky bar. H is not sitting with J but likes 5-star. M and N are not sitting at any of the extreme ends. K does not like Milky bar. N neither likes Kit Kat nor is sitting with G. The one who likes Bar one is sitting to the immediate left of the one who likes Dairy milk

Which of the following combination is correct?

- a. K, Bar one
- b. M, 5-star
- c. L, Milkybar
- d. M, Aero
- e. N, Dairy milk

87. How many such pairs of letters are there in the word TRANSPORT which have as many letters between them in the word as in the English alphabetical series? (+1, -0.25)

- a. One
- b. Two
- c. Three

d. More than three

e. None of these

88. If it is possible to make a meaningful word from first, fourth, sixth and ninth letters of the word UNDERNEATH, then which will be the first letter of that word? Mark X if no such word can be formed, M if more than one such word can be formed. (+1, -0.25)

a. T

b. U

c. E

d. M

e. X

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

8 people D, E, F, G, H, I, J and K are sitting around a square table in such a way that four of them sit at corners while four sit in the middle of each of the four sides. The ones sitting in the middle of the sides are facing centre and the ones sitting at the corners are facing outside.

F sits second to the right of G. Only 3 people sit between F and J. Only 1 person sits between J and I (either from left or right). D sits second to the left of K. K is neither an immediate neighbour of I nor J. Only 3 people sit between D and E. E does not sit at any of the corners of the table.

Who sits 3rd to the right of H?

a. K

- b. E
- c. F
- d. J
- e. None of these

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

8 people D, E, F, G, H, I, J and K are sitting around a square table in such a way that four of them sit at corners while four sit in the middle of each of the four sides. The ones sitting in the middle of the sides are facing centre and the ones sitting at the corners are facing outside.

F sits second to the right of G. Only 3 people sit between F and J. Only 1 person sits between J and I (either from left or right). D sits second to the left of K. K is neither an immediate neighbour of I nor J. Only 3 people sit between D and E. E does not sit at any of the corners of the table.

What is the position of I with respect to E?

- a. Second to the right
- b. Third to the right
- c. Third to the left
- d. Second to the left
- e. None of these

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

8 people D, E, F, G, H, I, J and K are sitting around a square table in such a way that four of them sit at corners while four sit in the middle of each of the four sides. The ones sitting in the middle of the sides are facing centre and the ones sitting at the corners are facing outside.

F sits second to the right of G. Only 3 people sit between F and J. Only 1 person sits between J and I (either from left or right). D sits second to the left of K. K is neither an immediate neighbour of I nor J. Only 3 people sit between D and E. E does not sit at any of the corners of the table.

Which of the following statements is/are true as per the given arrangement?

- 1) G is facing inside
 - 2) H is an immediate neighbour of J.
 - 3) F is sitting to the immediate left of K
- a. Only one
 - b. Only two
 - c. Only three
 - d. Both one and three
 - e. Both two and three

92. **Directions:** Read the following information carefully and answer the question given below it:

(+1, -0.25)

8 people D, E, F, G, H, I, J and K are sitting around a square table in such a way that four of them sit at corners while four sit in the middle of each of the four sides. The ones sitting in the middle of the sides are facing centre and the ones sitting at the corners are facing outside.

F sits second to the right of G. Only 3 people sit between F and J. Only 1 person sits between J and I (either from left or right). D sits second to the left of K. K is neither an immediate neighbour of I nor J. Only 3 people sit between D and E. E does not sit at any of the corners of the table.

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

- a. F
- b. I
- c. E
- d. J
- e. G

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

8 people D, E, F, G, H, I, J and K are sitting around a square table in such a way that four of them sit at corners while four sit in the middle of each of the four sides. The ones sitting in the middle of the sides are facing centre and the ones sitting at the corners are facing outside.

F sits second to the right of G. Only 3 people sit between F and J. Only 1 person sits between J and I (either from left or right). D sits second to the left of K. K is neither an immediate neighbour of I nor J. Only 3 people sit between D and E. E does not sit at any of the corners of the table.

How many people sit between K and G when counted from right of G?

- a. One
- b. Two

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

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

Statement:

$$D \leq R > E \leq B; S \leq M = E > D; G > B$$

Conclusion:

I. $D > E$

II. $B < R$

- a. Only I is True
- b. Only II is True
- c. Either I or II is True
- d. Neither I nor II is True
- e. Both I and II are True

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

Statement:

$$D \leq R > E \leq B; S \leq M = E > D; G > B$$

Conclusion:

I) $S < B$

II) $B = S$

a. Only I is True

b. Only II is True

c. Either I or II is True

d. Neither I nor II is True

e. Both I and II are True

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

Statement:

$N = K \geq L \geq P < O < U \geq R; P > F$

Conclusion:

I) $F \geq R$

II) $N > F$

a. Only I is True

b. Only II is True

c. Either I or II is True

d. Neither I nor II is True

- e. Both I and II are True

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

Statement:

$$Q > A \geq Z \leq X \leq C; Z = H$$

Conclusion:

1) $Q > H$

2) $Z \leq C$

a. Only I is True

b. Only II is True

c. Either I or II is True

d. Neither I nor II is True

e. Both I and II are True

98. **Direction:** In the following question, a given questions is followed by information in three statements. You have to find out the data in which statement (s) is sufficient to answer the question and mark your answer accordingly. (+1, -0.25)

A group of six students G, H, I, J, K and L are sitting around a circular table facing the centre. Who is sitting opposite to H?

I. L is sitting to the immediate left of K.

II. K is sitting opposite to G.

III. H is sitting to the immediate right of G.

- a. Data insufficient.
- b. All the statements are required.
- c. Statements I and II together are sufficient.
- d. Statements II and III together are sufficient.
- e. Statements I and III together are sufficient.

99. Direction: The following question consists of three statements numbered I, II and III. Decide if data given in the statements are sufficient to answer the questions below. (+1, -0.25)

In a company there are 5 people, L, M, N, O and P who have different salary per month. Who earns the least?

- I. Only two people earn more than N
- II. M is not one of the top two paid employees.
- III. Three people earn more than O.

- a. Only statement III is sufficient
 - b. Only I and II are sufficient
 - c. Only II and III are sufficient
 - d. All the statements are needed
 - e. Insufficient data
-

- 100. Direction:** In the following question, a given questions is followed by information in three statements. You have to decide the data in which statement (s) is/are sufficient to answer the question and mark your answer accordingly. (+1, -0.25)

In a row of 20 people facing north, what is the position of P from the right?

- I. There are 5 people are standing between P and R.
- II. R is standing eleventh to the right of Q.
- III. Only 3 people are standing to the left of Q.

- a. Only I is sufficient
- b. Only I and II are sufficient
- c. Only I and III are sufficient
- d. Only II and III are sufficient
- e. All the statements are required

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Answers

1. Answer: b

Explanation:

The correct answer is **Option 2**, i.e. **DCAEB**.

★ Key Points

- **D** starts off the sentence, introducing the subject matter.
- **C** follows D as it continues the thread started in D, mentioning the 'location' was that of a wrecked car which was unknown.
- **A** follows D as it talks about the time frame for which the location of the car was unknown and continues the topic.
- **E** follows A as it gives us the context of the present participle 'making' in A- 'making it difficult for the police'
- **B** follows D as it mentions that the police found it difficult to identify the car- the issue of the difficulty faced by the police is detailed in B and it concludes the sentence.

The correct order thus becomes **DCAEB**.

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2. Answer: a

Explanation:

The correct answer is **Option 1**, i.e. '**BEACD**'.

The sentence is - Skydiving is a challenging and thrilling experience especially for people who either have fear of flying or fear of heights.

3. Answer: d

Explanation:

The correct answer is **Option 4** , i.e., **BDAEC**.



Explanation:

- The first statement is B.i.e 'Chang's mother is here' is the introduction of the main idea.
- The pronoun 'her' in the sentence ' D' refers back to the mother mentioned in the sentence ' B'. Hence, ' D' follows ' B'.
- **A** mentions connects 'the mother's attendance' with 'Staggering woes (overwhelming afflictions or misfortunes)'
- **E** clearly follows **A** as it mentions with what mother's attention has to do with
- **C** clearly completes the sentence. (Someone's **mien** is their general appearance and manner, especially the expression on their face, which shows what they are feeling or thinking.)

★ Additional Information

Important Rules to Solve the Sentence Jumbles :

- Read the sentences attentively and try to comprehend the idea or theme of the sentences and eliminate the irrelevant options.
- Try to identify the opening (independent sentence) and closing sentences (concluding sentence) .
- Try to identify the mandatory pairs . Two sentences can be connected through various connectors and other determinants. Identify the pronouns connecting the sentences with each other.

Thus the sentence is: 'Chang's mother is here, and her attendance may have something to do with the staggering woe of Chang's mien and play'.

4. Answer: a

Explanation:

The correct answer is **Option 1**, i.e., **DBEAC**

The sentence is: 'The defensive coaches taught risk-taking, ball-hawking and perpetual movement – three strategies that bewildered the opposition and resulted in many bad passes, steals and easy fast-break baskets.'

5. Answer: b

Explanation:

The correct answer is **Option 2**, i.e., **CABDE** – 'Humans have been defined by some as the only animal that can laugh at grief, laugh at the pain and tragedy that define their fate.'

6. Answer: b

Explanation:

The correct answer is **Option 2**, i.e., **BDAEC**.

The sentence is: 'In the last five years, European population growth has dropped to almost zero, a demographic event that in years to come will have profound social implications.'

7. Answer: b

Explanation:

The correct answer is **option 2**.

- The correct word to be used in this context is '**vibrate**' which means **move continuously and rapidly to and fro**.
 - '**Vertebrate**' on the other hand means *the jawless and the jawed fishes, which include the cartilaginous fishes (sharks, rays, and ratfish) and the bony fishes*.
-

8. Answer: b

Explanation:

In the given question, the words 'indigestion', 'ulcers', 'condition' are correct.

However, the word 'underline' is incorrect in the given context. It means 'to draw a line under (a word or phrase) to give emphasis or indicate special type.'

It should be replaced with the word 'underlying', which means 'to be the cause or basis of (something).'

9. Answer: e

Explanation:

There is no error in the given sentence. All the words are correctly used and fit the context of the sentence.

Hence option 5 is the correct answer.

10. Answer: e

Explanation:

Correct Answer– **5 i.e. all are correct**.

- All the words which are bold are appropriate in the context of the sentence.

- Introverts: a shy, reticent person.
 - Familiar: well known from long or close association.
 - Interaction: communication or direct involvement with someone or something.
-

11. Answer: a

Explanation:

The correct answer is option 1.

The word '**appraisal**' means '**an act of assessing something or someone**'. For example, 'My review was an objective appraisal of the book.' The word most similar in meaning to this is '**estimate**' which means '**roughly calculate or judge the value, number, quantity, or extent of**.' For example, 'the aim of this book is to estimate the effects of macroeconomic policy on the economy.'

The meanings of the other words are as follows:

Mutiny: an open rebellion against the proper authorities, especially by soldiers or sailors against their officers.

Apparent: clearly visible or understood; obvious.

Subscription: an arrangement to receive something, typically a publication, regularly by paying in advance.

Duty: a moral or legal obligation; a responsibility.

12. Answer: b

Explanation:

The correct answer is option 2.

The word '**divergent**' means '**tending to be different or develop in different directions**'. For example, 'Both the speakers presented divergent interpretations of the same text'. The word most opposite in meaning to this is '**parallel**' which means '**a similarity or comparison**'. For example, 'Her actions run parallel to the intentions of the CEO.'

The meanings of the other words are as follows:

Atypical: not representative of a type, group, or class.

Disparate: essentially different in kind; not able to be compared.

Contrary: opposite in nature, direction, or meaning.

Conflicting: incompatible or at variance; contradictory.

13. Answer: b

Explanation:

The correct answer is 2.

The above passage discusses the issue of unemployment. The author believes that the major reason for this problem is the functioning of colleges. It is mentioned that colleges are not sufficiently related to the socio-economic needs of the people and that the syllabus diverges from the actual work a person is expected to do when employed. The author goes on to suggest that changes are needed in this.

Therefore, option 2 is correct.

The author does not talk about the criterion of employment, student-teacher ratio, and grades. Therefore, the rest of the options are incorrect.

14. Answer: a

Explanation:

The correct answer is option 1.

The passage mentions that for bachelor's and master's degree holders alike, there is a problem of unemployment.

Therefore, the sentence given in option 1 is false which makes it the correct option. (The question has asked us to point out the sentence which is not correct.)

Rest of the options contain sentences that have been mentioned or implied by the writer of the passage.

Therefore, they are correct which makes the rest of the options incorrect.

15. Answer: b

Explanation:

The correct answer is option 2.

The criterion of unemployment is – The person should be willing to work; at the existing rate of wage; and is not getting any employment. Option 2 mentions all three and therefore it is the only correct option.

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16. Answer: c

Explanation:

The correct answer is option 3.

Option 1 is incorrect because it is not the students but rather the syllabus of the colleges that is more focused on theories as opposed to practical knowledge.

Option 2 is incorrect because even though the writer thinks that the government can help improve the situation, government negligence is not mentioned as a major reason.

Option 4 is incorrect because the passage does not mention anything about student teacher ratio.

17. Answer: e

Explanation:

The correct answer is option 5.

The passage mentions/implies all of the statements given in the options.

18. Answer: d

Explanation:

Correct answer: Option 4, i.e., Both A and B.

The word 'adage' means 'a saying' or 'a maxim'.

Both sentences (a) and (b) use the word 'adage' correctly. Both of them can be re-written as-

(a) Among other things, Ben Franklin is famous for developing a saying to go with each of his philosophical ideals.

b) Murphy's Law is a good example of a maxim that takes a pessimistic view of life.

19. Answer: a

Explanation:

Correct answer: Option 1, i.e., Only A.

The word 'hamper' means 'to obstruct' or 'to restrict'.

Only (a) uses the word 'hamper' correctly. It can be re-written as follows:

(a) Although the pain medication has its benefits, it can also restrict the body's capacity to break down toxins.

Both (b) and (c) use the word incorrectly and do not make any sense and are also grammatically incorrect.

20. Answer: e

Explanation:

Correct answer: Option 5, i.e. All are correct.

The word 'tact' means 'skill' or 'sensitivity'.

All (a), (b) and (c) use the correct meaning of the word. They can be re-written as-

(a) Because he lacks discretion and sensitivity, most of the things my brother says comes off as offensive.

(b) Even though Vincent van Gogh was an extremely skilful artist, he only sold one painting during his lifetime.

(c) Andrew is a man of great skill and is a skilled speaker when it comes to diplomacy.

21. Answer: c

Explanation:

Correct answer: Option 3, i.e., Only C.

The word 'Trauma' means 'emotional shock' or 'damage'.

The only option that uses the word 'trauma' correctly is (c).

It can be re-written as: (c) The emotional shock of living in a concentration camp was a suffering that the survivors couldn't get over easily.

Both (a) and (b) use the word incorrectly and therefore the sentences formed are vague and meaningless.

22. Answer: a

Explanation:

The correct answer is Option 1, i.e. Only A.

The word 'myriad' means 'having countless or many elements or aspects'.

Also, the phrase 'massive quantities' provides us with the hint that the word 'myriad' is referring to 'a great number of options.'

Therefore, the word 'myriad' means 'a countless or extremely great number of possibilities or options', making option A the correct answer.

23. Answer: d

Explanation:

The correct answer is Option 4, i.e. Both A and B.

The word 'hard' means 'difficult' and the word 'reach' means 'arrive at'. The phrase 'hard to reach' put together means 'something or someplace that is difficult to arrive at' or 'something that is difficult to be obtained' or 'someplace so distant that it becomes difficult or next to impossible to go there'.

Also, the comparison of 'Europe' with the 'moon' and the use of the word 'remote' gives us the hint that it is inferring that Europe is just as remote and far away as the moon, so it would be quite difficult or next to impossible for them to reach.

Therefore, the correct answer is option D.

24. Answer: b

Explanation:

The correct answer is Option 2, i.e. Only B.

The word 'producing' means 'to make or generate'. The word 'enough' means 'adequate' or 'sufficient'.

Therefore, the phrase 'not producing enough' when put together means 'not producing the adequate amount that is required' or 'not generating the sufficient amount that is required'.

The only option that carries a similar meaning is b, making Option B, i.e., 'Not producing as much as required', the right answer

25. Answer: b

Explanation:

The correct answer is Option 2, i.e. Only B.

'Change your tune' means 'to change your opinion completely, especially because you know it will bring you an advantage'.

Hence the correct answer is 'Changing your mind'.

26. Answer: b

Explanation:

The correct answer is "B-F".

★ Key Points

- The correct combinations are as follows:
 - **A-E** : If a man does not keep pace with his companions, perhaps it is because he hears a different drummer.
 - **B-F** : Her mom came home tired but she still cooked dinner for her family.
 - **C-D** : Because he is so small, Stuart was often hard to find around the house.

27. Answer: d

Explanation:

A talks about *'my father' keeping me out of the house* (related to E) so that *'my mother' could plan a surprise party*. So, **A-E**

B talks about *genes changing over time* is related to *evolution* (the process by which different kinds of living organisms are believed to have developed from earlier forms during the history of the earth). So, **B-D**

C talks about *subject 'I' and coming out of the cage*. The *same subject 'I'* is continued in F, *wanting soap and water after coming out of the dark cage*. So, **C-F**.

Therefore, the correct answer is option 4.

28. Answer: b

Explanation:

The correct answer is option 2.

When the soldiers put dynamite under the bridge, they hoped it would enervate the foundation to the point of collapse.

When Kyle died, nobody missed him because he was a bully who liked to enervate women by hitting them.

While the writing appeared simple, its meaning was esoteric in the fact only a number of scholars could comprehend it.

29. Answer: a

Explanation:

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

★ Key Points

When the mayor learned his son was killed by a drug dealer, he started a crusade to rid his city of illegal drugs. After the verb '**Conduct**' we need to write an object after it. Hence, '**A belated investigation**' is a noun phrase hence it can be an object of the sentence.

So the correct combination is '**A-F**' *Because of advances in DNA testing, the police can now conduct a belated investigation into the unsolved murder.*

30. Answer: c

Explanation:

The correct answer is **option 3**.

The sentences is as follows:

The accidental firing of the missile broke the armistice and destroyed the chance of peace between the two nations.

None of the other phrases can be combined to form meaningful sentences.

Note : B and F could have been combined if the if the two phrases had the

connector 'that' to combine them.

Hence, only option 3 is correct.

31. Answer: a

Explanation:

Shirts produced in year 2016 = 2.8 Lakh

Percent of shirts passed in quality test = $100 - 1.25 = 98.75\%$

⇒ Total no of shirts that passed the quality test = $2.8 \times 98.75/100 = 276500$

⇒ Total no of shirts that failed the quality test = $(280000 - 276500) = 3500$

Formals shirts that failed the quality test = 2300

⇒ Informal shirts that failed the quality test = 1200

⇒ percent of informal test that failed the quality test = 1%

⇒ $1200 = 1\%$

Total no. of informal shirts = 120000

⇒ Total no. of formal shirts = 160000

∴ Ratio of formal shirts to informal shirts = $160000 : 120000 = 4 : 3$

32. Answer: d

Explanation:

Shirts produced in year 2016 = 2.8 Lakh

Percent of shirts passed in quality test = $100 - 1.25 = 98.75\%$

⇒ Total no of shirts that passed the quality test = $2.8 \times 98.75/100 = 276500$

Shirts produced in year 2017 = 3.6 Lakh

Percent of shirts passed in quality test = $100 - 1.25 = 98.75\%$

⇒ Total no of shirts that passed the quality test = $3.6 \times 98.75/100 = 355500$

⇒ Total shirts in year 2016 and 2017 that passed the quality test = 632000

∴ Average number of shirts that passed the quality test in year 2016 and 2017 = 316000

33. Answer: d

Explanation:

Shirts produced in year 2014 = 3.2 Lakh

Percent of shirts failed the quality test = 2.5%

⇒ Total no of shirts which failed the quality test = $3.2 \times 2.5/100 = 8000$

Shirts produced in year 2017 = 3.6 Lakh

Percent of shirts failed the quality test = 1.25 %

⇒ Total no of shirts which failed the quality test = $3.6 \times 1.25/100 = 4500$

⇒ Reduction in shirts which failed the quality test in 2017 as compared to 2014 = $8000 - 4500 = 3500$

∴ Required percentage = $3500/8000 \times 100 = 43\frac{3}{4} \%$

34. Answer: a

Explanation:

Shirts produced in year 2015 = 4 Lakh

Percent of white shirts = 40%

⇒ Total no of white shirts = $4 \times 40/100 = 1.6$ Lakh

∴ Coloured shirts = $4 - 1.6 = 2.4$ Lakh = 240000

35. Answer: a

Explanation:

Calculation:

Shirts produced in year 2015 = 4 Lakh

Percent of shirts passed the quality test = $100 - 2.25 = 97.75\%$

No. of shirts remain unsold after passing quality test = $400000 \times 97.75\% \times 10\%$

⇒ 39,100

Now, Shirts which didn't pass the quality test also remain unsold which will be equal to = $400000 \times 2.25\%$

⇒ 9000

⇒ Total number of shirts which remain unsold = $(39,100 + 9000)$

⇒ 48,100

∴ Required number of shirts which remain unsold is 48,100

★ Mistake Points

We will also include the shirts that failed the quality test as they also remained unsold.

36. Answer: b

Explanation:

Shirts produced in Year 2014 = 3.2 Lakh

Percent of shirts passed the quality test = $100 - 2.5 = 97.5\%$

Average price of per quality test passed shirt = Rs. 500

$\therefore$ Revenue = $3.2 \times 97.5/100 \times 500 = \text{Rs. } 15.6 \text{ crore}$

37. Answer: d**Explanation:**

Distance between A and C is 200 km.

Ram travelled from A to B in his car at 90 km/h and B to C in his bike at 60 km/hr

Let us assume that he covered x km in his car and $(200 - x)$ km in his bike

Average speed of Ram over the whole journey = 75 km/h

$$\Rightarrow x/90 + (200 - x)/60 = 200/75$$

$$\Rightarrow (2x + 600 - 3x)/180 = 8/3$$

$$\therefore x = 120 \text{ km}$$

38. Answer: c**Explanation:**

Number of students of school A who passed the exam = 200

Percent of students of school A who did not pass the exam = 20%

$\Rightarrow$ Percent of students of school A who pass the exam = 80%

⇒ 80% students of school A = 200

⇒ Total students in school A = 250

Number of students of school B who passed the exam = 180

Percent of students of school B who did not pass the exam = 10%

⇒ Percent of students of school B who pass the exam = 90%

⇒ 90% students of school B = 180

⇒ Total students in school B = 200

⇒ Total students in both the exam = 450

∴ 450 students appeared in the exam from both the schools

39. Answer: b

Explanation:

Ram sold both the items at same selling price.

Selling price of item B = Rs. 600

⇒ Selling price of item A = RS. 600

He earns 25% profit on selling item A

⇒ Cost price of item A = $600 \times 100/125 = \text{Rs. } 480$

Let the cost price of item B be x Rs

The ratio of selling price of both the items and the cost price of both the items is 30 : 37

⇒ $1200 / (480 + x) = 30/37$

⇒ $x = 1000$

$\therefore$ Loss incurred on selling item B = $1000 - 600 = \text{Rs. } 400$

40. Answer: a

Explanation:

Radius of the cylinder = $r = 5 \text{ cm}$

Volume of the cylinder = $\pi r^2 h = 500\pi$

$\Rightarrow$ Height, $h = 20$

Let the side of the square be $a \text{ cm}$

$\Rightarrow$ diagonal, $d = a\sqrt{2} \text{ cm}$

Height of the cylinder is equal to the diagonal of the square

$\Rightarrow a\sqrt{2} = 20$

$\Rightarrow a = 10\sqrt{2} \text{ cm}$

$\therefore$ Perimeter of square = $4a = 40\sqrt{2} \text{ cm}$

41. Answer: e

Explanation:

GIVEN :

A alone can do work in 20 days.

B is 25% more efficient than A.

A and B started working and worked for 4 days.

If C alone completed the remaining job in 22 days.

CALCULATION :

⇒ B can do a work in 16 days.

Let the total unit of work (LCM of 20 and 16) = 80 units

⇒ A's one day work = 4

⇒ B's one day work = 5

As A and B left after working for 4 days.

⇒ Work done by A and B in 4 days = 36 work

⇒ Work left = 44 units is done by C in 22 days.

⇒ C's one day work = 2 units

∴ 80 units of work can be completed by C alone in $80/2 = 40$ days

42. Answer: a

Explanation:

Number of Green Balls = 5

Number of Red balls = X

⇒ Total number of balls = 5 + X

Probability of both balls being red = $3/7$

$$\Rightarrow \frac{x(x-1)}{[(5+x)(4+x)]} = \frac{3}{7}$$

$$\Rightarrow 7x^2 - 7x = 3x^2 + 27x + 60$$

$$\Rightarrow 4x^2 - 34x - 60 = 0$$

$$\Rightarrow 2x^2 - 17x - 30 = 0$$

$$\Rightarrow (2x - 20)(x + 3) = 0$$

$$\Rightarrow x = 10, -3/2$$

Only 10 satisfies the value of X

$\therefore$ Number of red balls, X = 10

43. Answer: a

Explanation:

Total sum invested in scheme A and scheme B = Rs. 7000

Let the sum invested in scheme A be Rs. X

$\Rightarrow$ The sum invested in scheme B is Rs. (7000 - x)

Scheme A offered CI at 10% compounded annually for 2 years

$\Rightarrow$ Effective CI after 2 years = 21%

Scheme B offered SI at 15% per annum for 3 years

$\Rightarrow$ Effective SI after 3 years = 45%

Investment earned from scheme A is 84% of the investment earned from scheme B

$$\Rightarrow x \times 21/100 = 84/100 \times (7000 - x) \times 45/100$$

$$\Rightarrow x = 4500$$

$\therefore$ The sum invested in scheme A is Rs. 4500

44. Answer: e

Explanation:

First equation:

$$x^2 - 16x + 63 = 0$$

$$\Rightarrow x^2 - 9x - 7x + 63 = 0$$

$$\Rightarrow x(x - 9) - 7(x - 9) = 0$$

$$\Rightarrow x = 9 \text{ or } x = 7$$

Second Equation:

$$y^2 - 19y + 88 = 0$$

$$\Rightarrow y^2 - 8y - 11y + 88 = 0$$

$$\Rightarrow y(y - 8) - 11(y - 8) = 0$$

$$\Rightarrow y = 8 \text{ or } y = 11$$

$$\Rightarrow \text{When } x = 9, x > y \text{ or } y > x$$

$$\Rightarrow \text{When } x = 7, y > x$$

$\therefore$ the relationship cannot be established.

45. Answer: c

Explanation:

First Equation:

$$x^2 - 36x + 324 = 0$$

$$\Rightarrow x^2 - 18x - 18x + 324 = 0$$

$$\Rightarrow x(x - 18) - 18(x - 18) = 0$$

$$\Rightarrow x = 18, 18$$

Second Equation:

$$y^2 - 42x + 441 = 0$$

$$\Rightarrow y^2 - 21y - 21y + 441 = 0$$

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

$$\Rightarrow y = 21$$

$$\Rightarrow x = 18, y = 21$$

$$\therefore x < y$$

46. Answer: b

Explanation:

First equation:

$$x^2 - 10x + 25 = 0$$

$$\Rightarrow x^2 - 5x - 5x + 25 = 0$$

$$\Rightarrow x(x - 5) - 5(x - 5)$$

$$\Rightarrow x = 5$$

Second equation:

$$y^2 = 25$$

$$\Rightarrow y = -5 \text{ or } 5$$

$$\Rightarrow \text{When } x = 5, x = y \text{ or } x > y$$

$$\therefore x \geq y$$

47. Answer: a

Explanation:

First equation:

$$x^2 + 12x + 35 = 0$$

$$\Rightarrow x^2 + 5x + 7x + 35 = 0$$

$$\Rightarrow x(x + 5) + 7(x + 5) = 0$$

$$\Rightarrow x = -7 \text{ or } x = -5$$

Second Equation:

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

$$\Rightarrow y^2 + 9y + 8y + 72 = 0$$

$$\Rightarrow y(y + 9) + 8(y + 9) = 0$$

$$\Rightarrow y = -9 \text{ or } -8$$

$$\Rightarrow x > y$$

48. Answer: b

Explanation:

First equation:

$$3x^2 - 7x + 4 = 0$$

$$\Rightarrow 3x^2 - 4x - 3x + 4 = 0$$

$$\Rightarrow x(3x - 4) - 1(3x - 4) = 0$$

$$\Rightarrow x = 1 \text{ or } 4/3$$

Second Equation:

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

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

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

$$\Rightarrow y = 1 \text{ or } 1/2$$

$$\Rightarrow \text{when } x = 1, y = x \text{ or } x > y$$

$$\Rightarrow \text{When } x = 4/3, x > y$$

$$\therefore x \geq y$$

49. Answer: c

Explanation:

First equation:

$$2x^2 + 5x + 3 = 0$$

$$\Rightarrow 2x^2 + 2x + 3x + 3 = 0$$

$$\Rightarrow 2x(x + 1) + 3(x + 1) = 0$$

$$\Rightarrow x = -1 \text{ or } -3/2$$

Second Equation:

$$2y^2 - 7y + 6 = 0$$

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

$$\Rightarrow 2y(2y - 4) - 3(2y - 4) = 0$$

$$\Rightarrow y = 2 \text{ or } 3/2$$

$$\Rightarrow \text{When } x = -1, y > x$$

$$\Rightarrow \text{When } x = -3/2, y > x$$

$$\therefore y > x$$

50. Answer: a

Explanation:

Let the number of pedicure vouchers be x

$$\Rightarrow \text{The number of haircut voucher} = 130 + x$$

$$\Rightarrow x + 130 + x = 450$$

$$\Rightarrow x = 160$$

Ratio of male and female getting the pedicure voucher = $13 : 7$

$$\Rightarrow \text{Number of male getting the pedicure voucher} = 13/20 \times 160 = 104$$

$$\Rightarrow \text{Number of female getting the pedicure voucher} = 7/20 \times 160 = 56$$

$$\therefore \text{Required difference} = 48$$

51. Answer: c

Explanation:

Let the number of pedicure vouchers be x

$$\Rightarrow \text{The number of haircut voucher} = 130 + x$$

$$\Rightarrow x + 130 + x = 450$$

$$\Rightarrow x = 160$$

$$\Rightarrow \text{Haircut voucher} = 290$$

$\therefore$ 290 people redeemed the haircut voucher

52. Answer: b

Explanation:

Let the number of pedicure vouchers be x

$$\Rightarrow \text{The number of haircut voucher} = 130 + x$$

$$\Rightarrow x + 130 + x = 450$$

$$\Rightarrow x = 160$$

Ratio of male and female getting the pedicure voucher = 13 : 7

$$\therefore \text{Number of male getting the pedicure voucher} = \frac{13}{20} \times 160 = 104$$

53. Answer: e

Explanation:

Let the number of pedicure vouchers be x

$$\Rightarrow \text{The number of haircut voucher} = 130 + x$$

$$\Rightarrow x + 130 + x = 450$$

$$\Rightarrow x = 160$$

$$\Rightarrow \text{Haircut vouchers} = 290$$

30 people having pedicure vouchers took the manicure services.

50% people having haircut voucher took the manicure services

$$\Rightarrow \text{Manicure voucher} = 50/100 \times 290 = 145$$

$$\Rightarrow \text{Total Manicure vouchers} = 30 + 145 = 175$$

$\therefore$ 175 people took manicure services.

54. Answer: b

Explanation:

Let the number of pedicure vouchers be x

$$\Rightarrow \text{The number of haircut vouchers} = 130 + x$$

$$\Rightarrow x + 130 + x = 450$$

$$\Rightarrow x = 160$$

$$\Rightarrow \text{Haircut vouchers} = 130 + 160 = 290$$

Ratio of male and female getting the pedicure voucher = 13 : 7

$$\Rightarrow \text{Number of female getting the pedicure voucher} = 7/20 \times 160 = 56$$

$\therefore$ Required percent = 19%

55. Answer: b

Explanation:

The pattern is as follows:

Taking difference

$$\Rightarrow 201 - 200 = 1 \quad (201 - 199 = 2)$$

$$\Rightarrow 200 - 194 = 6 \text{ (} 199 - 194 = 5 \text{)}$$

$$\Rightarrow 194 - 184 = 10$$

$$\Rightarrow 184 - 167 = 17$$

$$\Rightarrow 167 - 141 = 26$$

$$\Rightarrow 141 - 104 = 37$$

Taking difference again

$$\Rightarrow 6 - 1 = 5 \text{ (} 5 - 2 = 3 \text{)}$$

$$\Rightarrow 10 - 6 = 4 \text{ (} 10 - 5 = 5 \text{)}$$

$$\Rightarrow 17 - 10 = 7$$

$$\Rightarrow 26 - 17 = 9$$

$$\Rightarrow 37 - 26 = 11$$

If there is 199 in place of 200 then we get the series:

3, 5, 7, 9 and 11

$\therefore$ 200 is wrong and should be replaced by 199.

56. Answer: b

Explanation:

The pattern is as follows:

Taking difference

$$\Rightarrow 53.9 - 52.7 = 1.2$$

$$\Rightarrow 52.7 - 50.3 = 2.4$$

$$\Rightarrow 50.3 - 46.7 = 3.6$$

$$\Rightarrow 46.7 - 40.9 = 5.8 \text{ (} 46.7 - 41.9 = 4.8 \text{)}$$

$$\Rightarrow 40.9 - 35.9 = 5 \text{ (} 41.9 - 35.9 = 6 \text{)}$$

$$\Rightarrow 35.9 - 28.7 = 7.2$$

$\therefore$ 40.9 is wrong and should be replaced by 41.9.

57. Answer: e

Explanation:

The pattern is as follows:

Taking difference

$$\Rightarrow 12 - 9 = 3$$

$$\Rightarrow 71 - 12 = 59$$

$$\Rightarrow 158 - 71 = 87$$

$$\Rightarrow 259 - 158 = 101$$

$$\Rightarrow 368 - 259 = 109, \text{ (} 367 - 259 = 108 \text{)}$$

$$\Rightarrow 478.5 - 368 = 110.5 \text{ (} 478.5 - 367 = 111.5 \text{)}$$

Taking difference again

$$\Rightarrow 59 - 3 = 56$$

$$\Rightarrow 87 - 59 = 28$$

$$\Rightarrow 101 - 87 = 14$$

$$\Rightarrow 109 - 101 = 8 \text{ (} 108 - 101 = 7 \text{)}$$

$$\Rightarrow 110.5 - 109 = 1.5 \quad (111.5 - 108 = 3.5)$$

As we can observe the next number after the difference is half the previous.

But due to 368 the series is not following the pattern.

$\therefore$ 368 is wrong and should be replaced by 367.

58. Answer: d

Explanation:

The pattern is as follows:

$$\Rightarrow 5 \times 1 - 1 = 4$$

$$\Rightarrow 4 \times 2 - 1 = 7$$

$$\Rightarrow 7 \times 3 - 1 = 20$$

$$\Rightarrow 20 \times 4 - 1 = 79$$

$$\Rightarrow 79 \times 5 - 1 = 394$$

$$\Rightarrow 394 \times 6 - 1 = 2373$$

$\therefore$ 395 is wrong and should be replaced by 394.

59. Answer: b

Explanation:

The pattern is as follows:

$$\Rightarrow 16 \times \frac{1}{2} = 8$$

$$\Rightarrow 8 \times 1 = 8$$

$$\Rightarrow 8 \times 3/2 = 12$$

$$\Rightarrow 12 \times 2 = 24$$

$$\Rightarrow 24 \times 5/2 = 60$$

$$\Rightarrow 60 \times 3 = 180$$

$\therefore$ 4 is wrong and should be replaced by 8

60. Answer: b

Explanation:

Boxes of both sizes sold on Tuesday = $32 + 42 = 74$

Large boxes sold on Friday = 70

$\therefore$ Required percent = $74/70 \times 100 = 105.7\%$

61. Answer: a

Explanation:

Medium size vox box sold on Monday = 48

Large six vox box sold on Thursday = 46

$\therefore$ Required difference = 2

62. Answer: e

Explanation:

Large six vox box sold on Wednesday = 32

Medium size vox box sold on Tuesday = 32

$\therefore$ Required Ratio = 1 : 1

63. Answer: d

Explanation:

Medium vox box sold on Monday = 48

Medium vox box sold on Thursday = 52

Medium vox box sold on Friday = 40

$\Rightarrow$ Total boxes = 140

$\therefore$ Average = $140/3 = 46.67$

64. Answer: e

Explanation:

Total vox boxes sold on Monday = $48 + 36 = 84$

Total vox boxes sold on Thursday = $52 + 46 = 98$

$\therefore$ Required percent = $84/98 \times 100 = 85.7\%$

65. Answer: a

Explanation:

Large size vox box sold on Monday = 36

Large size vox box sold on Tuesday = 42

Large size vox box sold on Wednesday = 32

Large size vox box sold on Thursday = 46

Large size vox box sold on Friday = 70

$\therefore$ Total number of large size vox boxes sold on all the days = 226

66. Answer: b

Explanation:

Given: Few people are sitting in a row facing North.

1) Only three person sit to the left of L.

2) Six persons sit between L and J.



3) R is sitting at the second position from one of the end.

4) Two-person sit between P and R.

5) 3 persons are sitting between M and N.

6) K is third to the right of N. K is second to the left of P.

7) Number of persons between M and P is the same as the number of persons between M and L.



Hence, 26 persons are sitting in the row.

67. Answer: a

Explanation:

Given: Few person are sitting in a row facing North.

- 1) Only three person sit to the left of L.
- 2) Six person sit between L and J.



- 3) R is sitting at second position from one of the end.
- 4) Two person sit between P and R.
- 5) 3 persons are sitting between M and N.
- 6) K is third to the right of N. K is second to the left of P.
- 7) Number of person between M and P is same s the number of person between M and L.



Hence, J is 2nd to the left of M.

68. Answer: d

Explanation:

Given: Few person are sitting in a row facing North.

- 1) Only three person sit to the left of L.
- 2) Six person sit between L and J.



- 3) R is sitting at second position from one of the end.
- 4) Two person sit between P and R.
- 5) 3 persons are sitting between M and N.
- 6) K is third to the right of N. K is second to the left of P.
- 7) Number of person between M and P is same s the number of person between M and L.



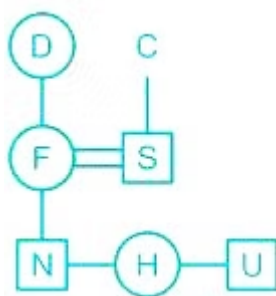
Hence, 8 people are sitting between M and P.

69. Answer: b

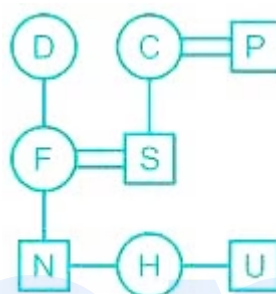
Explanation:

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

C, D, H, N, F, S and U are seven members of a family. D is the mother of F, N is the son of F. H is the only sister of N and U, S is the father of U. S is the son of C.



If P is the father-in-law of F,



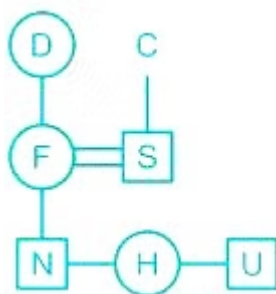
Hence, C is the grandmother of U.

70. Answer: a

Explanation:

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

C, D, H, N, F, S and U are seven members of a family. D is the mother of F, N is the son of F. H is the only sister of N and U, S is the father of U. S is the son of C.



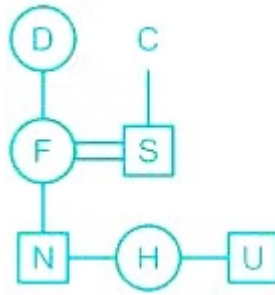
Hence, H is the daughter of F.

71. Answer: d

Explanation:

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

C, D, H, N, F, S and U are seven members of a family. D is the mother of F, N is the son of F. H is the only sister of N and U, S is the father of U. S is the son of C.



Hence, N is the grandson of D.

72. Answer: b

Explanation:

Boxes: P, Q, R, S, T, U, V, W and X

1) There are 5 boxes between box P and box R. Box T is kept immediately above R.

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Case 1	Case2
	T
P	R
T	
R	P

2) 3 boxes are kept between box T and box S.

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Case 1.1	Case1.2	Case 2.1	Case2.2
			S
		T	T
P	P	R	R
	S		
		S	
T	T		
R	R	P	P
S			

As there are more than 9 boxes in, Case 1.1 and 2.2, these cases are rejected.

3) The number of boxes between P and S is same as the number of boxes between T and Q.

In Case 2.1 the only possible place for Q is below T as if Q is placed above T then the number of boxes will be more than 9.

Case1.2	Case 2.1
	T
P	R
S	
	Q
	S
Q	
T	
R	P

4) Box U is kept below box Q. There is only one box kept between U and V.

5) Box U is not kept at the bottom of the stack.

In these condition Case 1.2 gets rejected because it will make the number of boxes greater than 9.

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Case1.2	Case 2.1
	T
P	R
S	
	Q
	S
Q	
T	U
R	P
U	V
V	

5) Box W is kept somewhere below X.

Case 2.1
T
R
X
Q
S
W
U
P
V

Hence, only Statement II is correct.

73. Answer: b

Explanation:

Boxes: P, Q, R, S, T, U, V, W and X

1) There are 5 boxes between box P and box R. Box T is kept immediately above R.

Case 1	Case2
	T
P	R
T	
R	P

2) 3 boxes are kept between box T and box S.

Case 1.1	Case1.2	Case 2.1	Case2.2
			S
		T	T
P	P	R	R
	S		
		S	
T	T		
R	R	P	P
S			

As there are more than 9 boxes in, Case 1.1 and 2.2, these cases are rejected.

3) The number of boxes between P and S is same as the number of boxes between T and Q.

In Case 2.1 the only possible place for Q is below T as if Q is placed above T then the number of boxes will be more than 9.

Case1.2	Case 2.1
	T
P	R
S	
	Q
	S
Q	
T	
R	P

4) Box U is kept below box Q. There is only one box kept between U and V.

5) Box U is not kept at the bottom of the stack.

In these condition Case 1.2 gets rejected because it will make the number of boxes greater than 9.

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Case1.2	Case 2.1
	T
P	R
S	
	Q
	S
Q	
T	U
R	P
U	V
V	

5) Box W is kept somewhere below X.

Case 2.1
T
R
X
Q
S
W
U
P
V

V is immediately below P and Q is immediately below X. Similarly, U is immediately below W.

Hence, W is the correct answer.

74. Answer: d

Explanation:

Boxes: P, Q, R, S, T, U, V, W and X

1) There are 5 boxes between box P and box R. Box T is kept immediately above R.

Case 1	Case2
	T
P	R
T	
R	P

2) 3 boxes are kept between box T and box S.

Case 1.1	Case1.2	Case 2.1	Case2.2
			S
		T	T
P	P	R	R
	S		
		S	
T	T		
R	R	P	P
S			

As there are more than 9 box in, Case 1.1 and 2.2, these cases are rejected.

3) The number of boxes between P and S is same as the number of boxes between T and Q.

In Case 2.1 the only possible place for Q is below T as if Q is placed above T then the number of boxes will be more than 9.

Case1.2	Case 2.1
	T
P	R
S	
	Q
	S
Q	
T	
R	P

4) Box U is kept below box Q. There is only one box kept between U and V.

5) Box U is not kept at the bottom of the stack.

In these condition Case 1.2 gets rejected because it will make the number of boxes greater than 9.

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Case1.2	Case 2.1
	T
P	R
S	
	Q
	S
Q	
T	U
R	P
U	V
V	

5) Box W is kept somewhere below X.

Case 2.1
T
R
X
Q
S
W
U
P
V

Hence, four boxes are kept between X and P.

75. Answer: a

Explanation:

Boxes: P, Q, R, S, T, U, V, W and X

1) There are 5 boxes between box P and box R. Box T is kept immediately above R.

Case 1	Case2
	T
P	R
T	
R	P

2) 3 boxes are kept between box T and box S.

Case 1.1	Case1.2	Case 2.1	Case2.2
			S
		T	T
P	P	R	R
	S		
		S	
T	T		
R	R	P	P
S			

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As there are more than 9 box in, Case 1.1 and 2.2, these cases are rejected.

3) The number of boxes between P and S is same as the number of boxes between T and Q.

In Case 2.1 the only possible place for Q is below T as if Q is placed above T then the number of boxes will be more than 9.

Case1.2	Case 2.1
	T
P	R
S	
	Q
	S
Q	
T	
R	P

4) Box U is kept below box Q. There is only one box kept between U and V.

5) Box U is not kept at the bottom of the stack.

In these condition Case 1.2 gets rejected because it will make the number of boxes greater than 9.

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Case1.2	Case 2.1
	T
P	R
S	
	Q
	S
Q	
T	U
R	P
U	V
V	

5) Box W is kept somewhere below X.

Case 2.1
T
R
X
Q
S
W
U
P
V

Hence, X and S is kept immediately above and below box Q respectively.

76. Answer: e

Explanation:

Boxes: P, Q, R, S, T, U, V, W and X

1) There are 5 boxes between box P and box R. Box T is kept immediately above R.

Case 1	Case2
	T
P	R
T	
R	P

2) 3 boxes are kept between box T and box S.

Case 1.1	Case1.2	Case 2.1	Case2.2
			S
		T	T
P	P	R	R
	S		
		S	
T	T		
R	R	P	P
S			

As there are more than 9 box in, Case 1.1 and 2.2, these cases are rejected.

3) The number of boxes between P and S is same as the number of boxes between T and Q.

In Case 2.1 the only possible place for Q is below T as if Q is placed above T then the number of boxes will be more than 9.

Case1.2	Case 2.1
	T
P	R
S	
	Q
	S
Q	
T	
R	P

4) Box U is kept below box Q. There is only one box kept between U and V.

5) Box U is not kept at the bottom of the stack.

In these condition Case 1.2 gets rejected because it will make the number of boxes greater than 9.

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Case1.2	Case 2.1
	T
P	R
S	
	Q
	S
Q	
T	U
R	P
U	V
V	

5) Box W is kept somewhere below X.

Case 2.1
T
R
X
Q
S
W
U
P
V

Hence, box W is fourth from the bottom in the given arrangement.

77. Answer: a

Explanation:

8 persons: P, Q, R, S, T, U, V and W

Year (age): 1945 (73), 1956 (62), 1961 (57), 1973 (45), 1978 (40), 1989 (29), 1996 (22) and 2007 (11)

1. S was born in an odd number year.
2. The difference between the present age of S and V is 5.
(There are two possibilities)
3. The present age of W is twice the present age of Q.
(Therefore Q was born in 2007 and W in 1996)

Case I:

Prepp

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Year	Age	Person
1945	73	
1956	62	
1961	57	
1973	45	S
1978	40	V
1989	29	
1996	22	W
2007	11	Q

Case 2:

Year	Age	Person
1945	73	
1956	62	V
1961	57	S
1973	45	
1978	40	
1989	29	
1996	22	W
2007	11	Q

4. Only 3 people were born between V and T.

Case 1:

Year	Age	Person
1945	73	T
1956	62	
1961	57	
1973	45	S
1978	40	V
1989	29	
1996	22	W
2007	11	Q

Case 2:

Year	Age	Person
1945	73	
1956	62	V
1961	57	S
1973	45	
1978	40	
1989	29	T
1996	22	W
2007	11	Q

5. As many people were born between T and Q as between T and P.

(Therefore case 1 will be eliminated as in case 1, there were 6 people born between T and Q and hence the above condition can not be fulfilled)

6. R was born in one of the years before P.

Case 2:

Year	Age	Person
1945	73	R
1956	62	V
1961	57	S
1973	45	P
1978	40	U
1989	29	T
1996	22	W
2007	11	Q

Hence, R was born in 1945.

78. Answer: d

Explanation:

8 persons: P, Q, R, S, T, U, V and W

Year (age): 1945 (73), 1956 (62), 1961 (57), 1973 (45), 1978 (40), 1989 (29), 1996 (22) and 2007 (11)

1. S was born in an odd number year.
2. The difference between the present age of S and V is 5.

(There are two possibilities)

3. The present age of W is twice the present age of Q.

(Therefore Q was born in 2007 and W in 1996)

Case I:



Your Personal Exams Guide

Year	Age	Person
1945	73	
1956	62	
1961	57	
1973	45	S
1978	40	V
1989	29	
1996	22	W
2007	11	Q

Case 2:

Year	Age	Person
1945	73	
1956	62	V
1961	57	S
1973	45	
1978	40	
1989	29	
1996	22	W
2007	11	Q

4. Only 3 people were born between V and T.

Case 1:

Year	Age	Person
1945	73	T
1956	62	
1961	57	
1973	45	S
1978	40	V
1989	29	
1996	22	W
2007	11	Q

Case 2:

Year	Age	Person
1945	73	
1956	62	V
1961	57	S
1973	45	
1978	40	
1989	29	T
1996	22	W
2007	11	Q

5. As many people were born between T and Q as between T and P.

(Therefore case 1 will be eliminated as in case 1, there were 6 people born between T and Q and hence the above condition can not be fulfilled)

6. R was born in one of the years before P.

Case 2:

Year	Age	Person
1945	73	R
1956	62	V
1961	57	S
1973	45	P
1978	40	U
1989	29	T
1996	22	W
2007	11	Q

Hence the age of U is 40.

79. Answer: d

Explanation:

8 persons: P, Q, R, S, T, U, V and W

Year (age): 1945 (73), 1956 (62), 1961 (57), 1973 (45), 1978 (40), 1989 (29), 1996 (22) and 2007 (11)

1. S was born in an odd number year.
2. The difference between the present age of S and V is 5.
(There are two possibilities)
3. The present age of W is twice the present age of Q.

(Therefore Q was born in 2007 and W in 1996)

Case I:

Prepp

Your Personal Exams Guide

Year	Age	Person
1945	73	
1956	62	
1961	57	
1973	45	S
1978	40	V
1989	29	
1996	22	W
2007	11	Q

Case 2:

Year	Age	Person
1945	73	
1956	62	V
1961	57	S
1973	45	
1978	40	
1989	29	
1996	22	W
2007	11	Q

4. Only 3 people were born between V and T.

Case 1:

Year	Age	Person
1945	73	T
1956	62	
1961	57	
1973	45	S
1978	40	V
1989	29	
1996	22	W
2007	11	Q

Case 2:

Year	Age	Person
1945	73	
1956	62	V
1961	57	S
1973	45	
1978	40	
1989	29	T
1996	22	W
2007	11	Q

5. As many people were born between T and Q as between T and P.

(Therefore case 1 will be eliminated as in case 1, there were 6 people born between T and Q and hence the above condition can not be fulfilled)

6. R was born in one of the years before P.

Case 2:

Year	Age	Person
1945	73	R
1956	62	V
1961	57	S
1973	45	P
1978	40	U
1989	29	T
1996	22	W
2007	11	Q

Hence, the difference between the ages of S and R is 16.

80. Answer: a

Explanation:

8 persons: P, Q, R, S, T, U, V and W

Year (age): 1945 (73), 1956 (62), 1961 (57), 1973 (45), 1978 (40), 1989 (29), 1996 (22) and 2007 (11)

1. S was born in an odd number year.
2. The difference between the present age of S and V is 5.

(There are two possibilities)

3. The present age of W is twice the present age of Q.

(Therefore Q was born in 2007 and W in 1996)

Case I:

Prepp

Your Personal Exams Guide

Year	Age	Person
1945	73	
1956	62	
1961	57	
1973	45	S
1978	40	V
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Case 2:

Year	Age	Person
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1961	57	S
1973	45	
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1989	29	
1996	22	W
2007	11	Q

4. Only 3 people were born between V and T.

Case 1:

Year	Age	Person
1945	73	T
1956	62	
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1989	29	
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2007	11	Q

Case 2:

Year	Age	Person
1945	73	
1956	62	V
1961	57	S
1973	45	
1978	40	
1989	29	T
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2007	11	Q

5. As many people were born between T and Q as between T and P.

(Therefore case 1 will be eliminated as in case 1, there were 6 people born between T and Q and hence the above condition can not be fulfilled)

6. R was born in one of the years before P.

Case 2:

Year	Age	Person
1945	73	R
1956	62	V
1961	57	S
1973	45	P
1978	40	U
1989	29	T
1996	22	W
2007	11	Q

Hence, T was born before W but after U.

81. Answer: c

Explanation:

8 persons: P, Q, R, S, T, U, V and W

Year (age): 1945 (73), 1956 (62), 1961 (57), 1973 (45), 1978 (40), 1989 (29), 1996 (22) and 2007 (11)

1. S was born in an odd number year.
2. The difference between the present age of S and V is 5.
(There are two possibilities)
3. The present age of W is twice the present age of Q.

(Therefore Q was born in 2007 and W in 1996)

Case I:

Prepp

Your Personal Exams Guide

Year	Age	Person
1945	73	
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4. Only 3 people were born between V and T.

Case I:

Year	Age	Person
1945	73	T
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6. R was born in one of the years before P.

Case 2:

Year	Age	Person
1945	73	R
1956	62	V
1961	57	S
1973	45	P
1978	40	U
1989	29	T
1996	22	W
2007	11	Q

The present age of S = 57

After 4 years, $57 + 4 = 61$

Hence, the age of S after 4 years will be 61.

82. Answer: b

Explanation:

People: G, H, J, K, L, M and N.

Chocolates: Snickers, Dairy milk, Milky bar, 5-star, Kit Kat, Aero and Bar one (not necessarily in the same order).

- 1) J is sitting exactly in the middle of the row but neither likes Dairy milk nor Bar-one.
- 2) The one who likes Snickers is sitting sixth to the left of the one who likes Milky bar.



- 3) G is sitting with the one who likes Milky bar.



- 4) H is not sitting with J but likes 5-star.



- 5) M and N are not sitting at any of the extreme ends.

(So, either K or L is sitting at the extreme ends.)

- 6) K does not like Milky bar.

(So, K is sitting at the extreme left end and L is sitting at the extreme right end.)



- 7) N neither likes Kit Kat nor is sitting with G.

(So, N is sitting with H and M is sitting with G.)

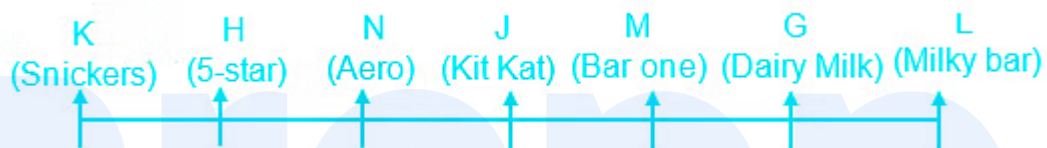


8) The one who likes Bar one is sitting to the immediate left of the one who likes Dairy milk.

(As J does not like Dairy milk so the one who likes Dairy milk is G and the one who likes Bar one is M.

N likes Aero (refer to point no. 7).

Thus, J likes KitKat.)



Hence, "J" is the correct answer.

83. Answer: c

Explanation:

People: G, H, J, K, L, M and N.

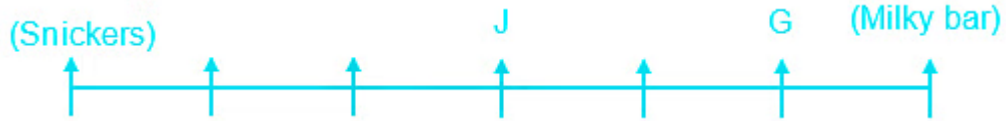
Chocolates: Snickers, Dairy milk, Milky bar, 5-star, Kit Kat, Aero and Bar one (not necessarily in the same order).

1) J is sitting exactly in the middle of the row but neither likes Dairy milk nor Bar-one.

2) The one who likes Snickers is sitting sixth to the left of the one who likes Milky bar.



3) G is sitting with the one who likes Milky bar.



4) H is not sitting with J but likes 5-star.



5) M and N are not sitting at any of the extreme ends.

(So, either K or L is sitting at the extreme ends.)

6) K does not like Milky bar.

(So, K is sitting at the extreme left end and L is sitting at the extreme right end.)



7) N neither likes Kit Kat nor is sitting with G.

(So, N is sitting with H and M is sitting with G.)

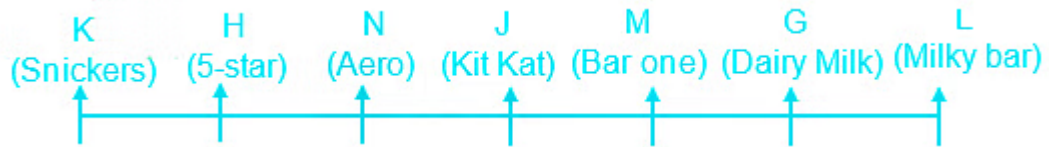


8) The one who likes Bar one is sitting to the immediate left of the one who likes Dairy milk.

(As J does not like Dairy milk so the one who likes Dairy milk is G and the one who likes Bar one is M.

N likes Aero (refer to point no. 7).

Thus, J likes KitKat.)



Hence, G likes Dairy milk.

84. Answer: e

Explanation:

People: G, H, J, K, L, M and N.

Chocolates: Snickers, Dairy milk, Milky bar, 5-star, Kit Kat, Aero and Bar one (not necessarily in the same order).

- 1) J is sitting exactly in the middle of the row but neither likes Dairy milk nor Bar-one.
- 2) The one who likes Snickers is sitting sixth to the left of the one who likes Milky bar.



- 3) G is sitting with the one who likes Milky bar.



- 4) H is not sitting with J but likes 5-star.



- 5) M and N are not sitting at any of the extreme ends.

(So, either K or L is sitting at the extreme ends.)

6) K does not like Milky bar.

(So, K is sitting at the extreme left end and L is sitting at the extreme right end.)



7) N neither likes Kit Kat nor is sitting with G.

(So, N is sitting with H and M is sitting with G.)



8) The one who likes Bar one is sitting to the immediate left of the one who likes Dairy milk.

(As J does not like Dairy milk so the one who likes Dairy milk is G and the one who likes Bar one is M.)

N likes Aero (refer to point no. 7).

Thus, J likes KitKat.)



Hence, the statement "K is sitting fourth to the left of M" is true.

85. Answer: d

Explanation:

People: G, H, J, K, L, M and N.

Chocolates: Snickers, Dairy milk, Milky bar, 5-star, Kit Kat, Aero and Bar one (not necessarily in the same order).

1) J is sitting exactly in the middle of the row but neither likes Dairy milk nor Bar-one.

2) The one who likes Snickers is sitting sixth to the left of the one who likes Milky bar.



3) G is sitting with the one who likes Milky bar.



4) H is not sitting with J but likes 5-star.



5) M and N are not sitting at any of the extreme ends.

(So, either K or L is sitting at the extreme ends.)

6) K does not like Milky bar.

(So, K is sitting at the extreme left end and L is sitting at the extreme right end.)



7) N neither likes Kit Kat nor is sitting with G.

(So, N is sitting with H and M is sitting with G.)



8) The one who likes Bar one is sitting to the immediate left of the one who likes Dairy milk.

(As J does not like Dairy milk so the one who likes Dairy milk is G and the one who likes Bar one is M.

N likes Aero (refer to point no. 7).

Thus, J likes KitKat.)



Hence, the statement 'The one who likes 5-star is sitting with the one who likes Kit Kat' is not true.

86. Answer: c

Explanation:

People: G, H, J, K, L, M and N.

Chocolates: Snickers, Dairy milk, Milky bar, 5-star, Kit Kat, Aero and Bar one (not necessarily in the same order).

- 1) J is sitting exactly in the middle of the row but neither likes Dairy milk nor Bar-one.
- 2) The one who likes Snickers is sitting sixth to the left of the one who likes Milky bar.



3) G is sitting with the one who likes Milky bar.



4) H is not sitting with J but likes 5-star.



5) M and N are not sitting at any of the extreme ends.

(So, either K or L is sitting at the extreme ends.)

6) K does not like Milky bar.

(So, K is sitting at the extreme left end and L is sitting at the extreme right end.)



7) N neither likes Kit Kat nor is sitting with G.

(So, N is sitting with H and M is sitting with G.)

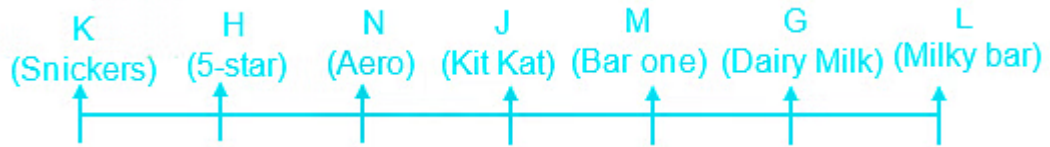


8) The one who likes Bar one is sitting to the immediate left of the one who likes Dairy milk.

(As J does not like Dairy milk so the one who likes Dairy milk is G and the one who likes Bar one is M.

N likes Aero (refer to point no. 7).

Thus, J likes KitKat.)



Hence, the combination "L, Milky bar" is correct.

87. Answer: d

Explanation:



Hence, there are 4 such pairs of letters which have as many letters between them in the word as in the English alphabetical series.

88. Answer: a

Explanation:

The first, fourth, sixth and ninth letters of the word UNDERNEATH:

U, E, N and T

Meaningful word using 'U, E, N and T' is:

TUNE, which has 'T' as first letter.

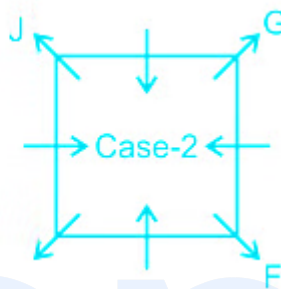
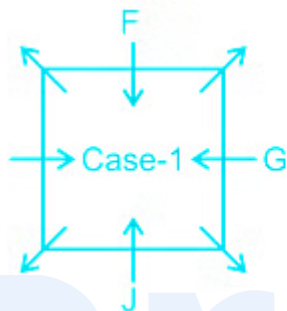
Hence, the answer is 'T'.

89. Answer: c

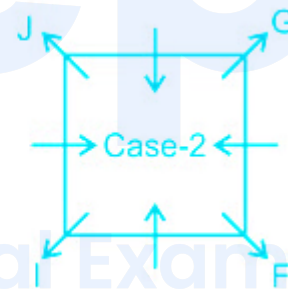
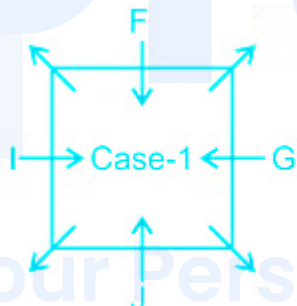
Explanation:

People: D, E, F, G, H, I, J and K.

1) F sits second to the right of G only 3 people sit between F and J.

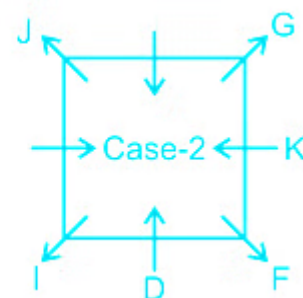
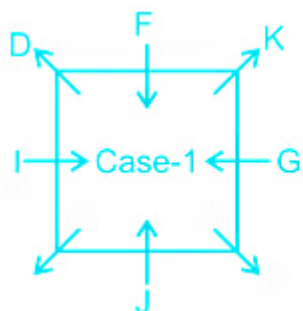


2) Only 1 person sits between J and I (either from left or right).



3) D sits second to the left of K.

4) K is neither an immediate neighbour of I nor J.

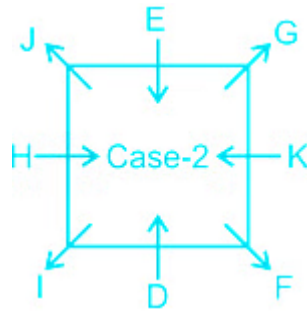


5) Only 3 people sit between D and E.

6) E does not sit at any of the corners of the table.

(Case 1 will be eliminated here.)

(The vacant place will be occupied by H.)



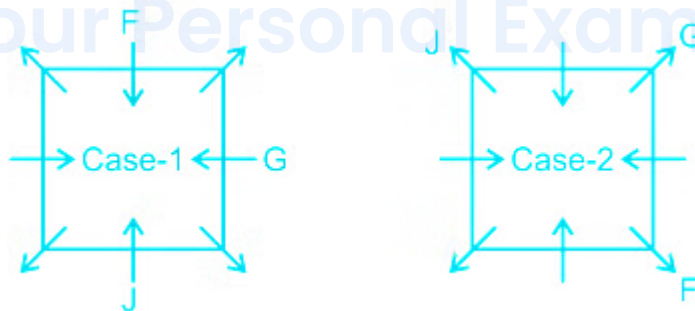
Hence, F is sitting third to the right of H.

90. Answer: b

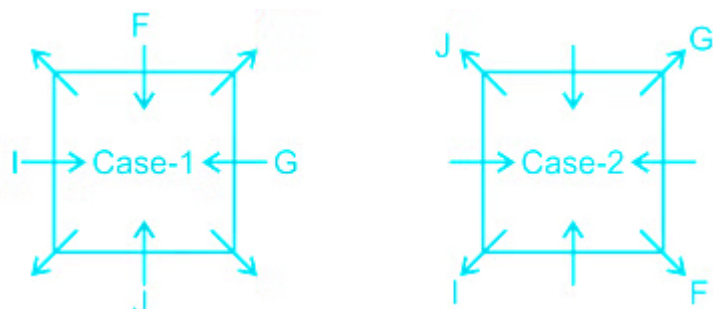
Explanation:

People: D, E, F, G, H, I, J and K.

1) F sits second to the right of G only 3 people sit between F and J.

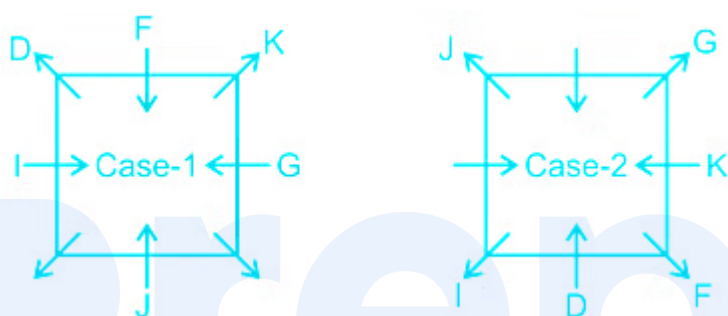


2) Only 1 person sits between J and I (either from left or right).



3) D sits second to the left of K.

4) K is neither an immediate neighbour of I nor J.

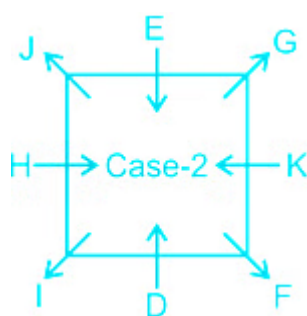


5) Only 3 people sit between D and E.

6) E does not sit at any of the corners of the table.

(Case 1 will be eliminated here.)

(The vacant place will be occupied by H.)



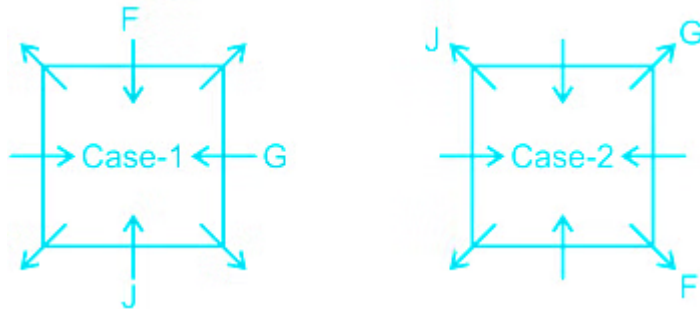
Hence, I was sitting third to the right of E.

91. Answer: e

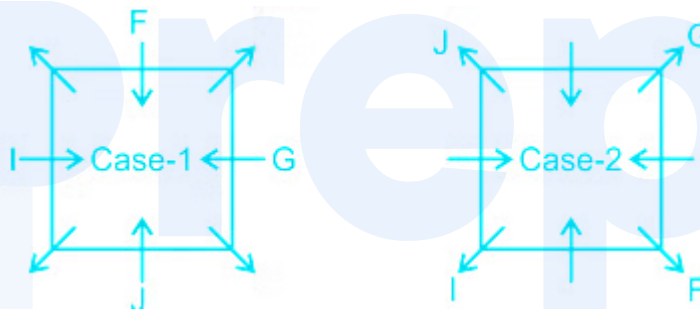
Explanation:

People: D, E, F, G, H, I, J and K.

1) F sits second to the right of G only 3 people sit between F and J.

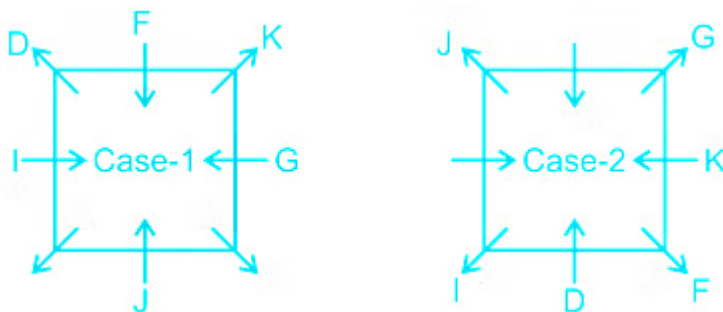


2) Only 1 person sits between J and I (either from left or right).



3) D sits second to the left of K.

4) K is neither an immediate neighbour of I nor J.

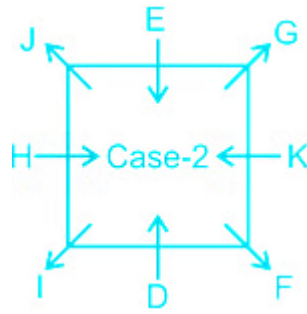


5) Only 3 people sit between D and E.

6) E does not sit at any of the corners of the table.

(Case 1 will be eliminated here.)

(The vacant place will be occupied by H.)



- 1) G is facing inside → false.
- 2) H is an immediate neighbour of J → true.
- 3) F is sitting to the immediate left of K → true.

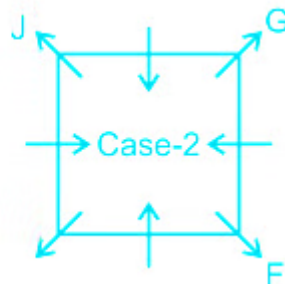
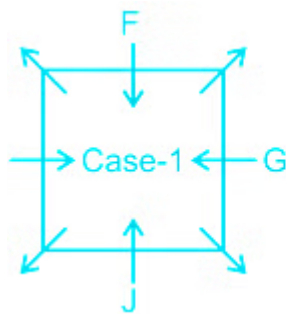
Hence, both 2 and 3 are true.

92. Answer: c

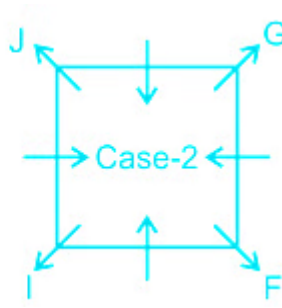
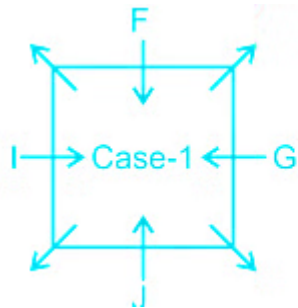
Explanation:

People: D, E, F, G, H, I, J and K.

- 1) F sits second to the right of G only 3 people sit between F and J.

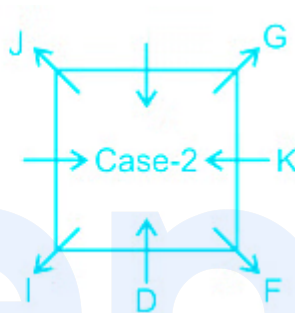
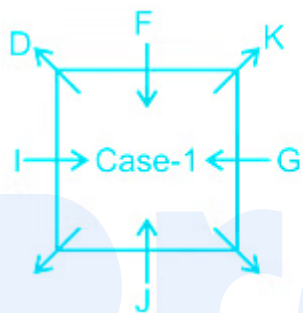


- 2) Only 1 person sits between J and I (either from left or right).



3) D sits second to the left of K.

4) K is neither an immediate neighbour of I nor J.

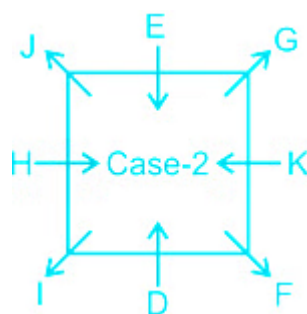


5) Only 3 people sit between D and E.

6) E does not sit at any of the corners of the table.

(Case 1 will be eliminated here.)

(The vacant place will be occupied by H.)



All are facing towards outside the table except E.

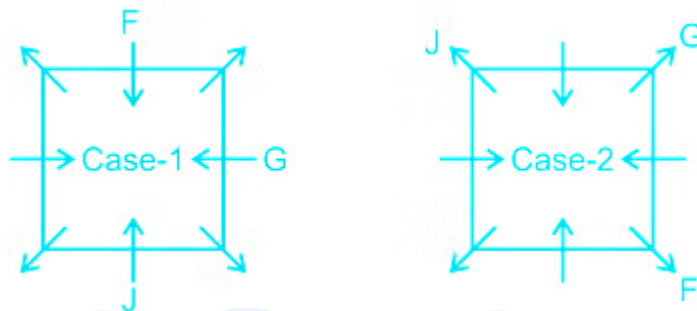
Hence, answer is E.

93. Answer: e

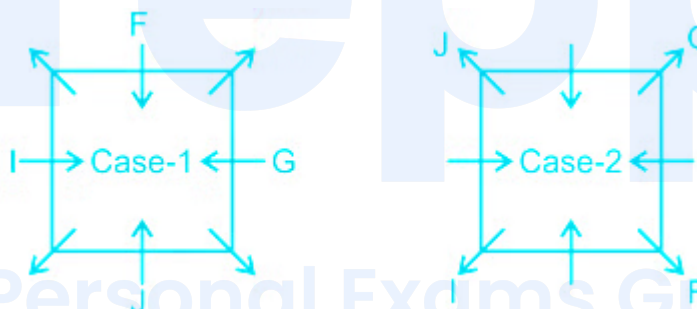
Explanation:

People: D, E, F, G, H, I, J and K.

1) F sits second to the right of G only 3 people sit between F and J.

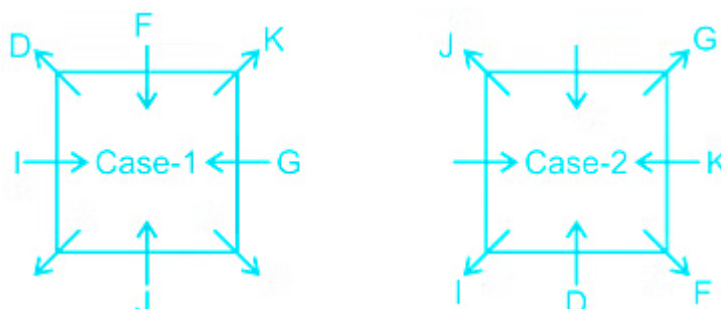


2) Only 1 person sits between J and I (either from left or right).



3) D sits second to the left of K.

4) K is neither an immediate neighbour of I nor J.

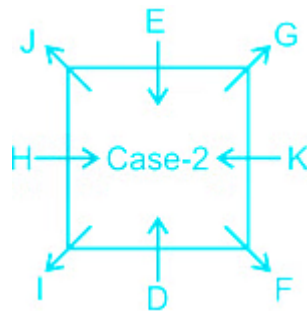


5) Only 3 people sit between D and E.

6) E does not sit at any of the corners of the table.

(Case 1 will be eliminated here.)

(The vacant place will be occupied by H.)



Here, if we count right from G then K is his immediate neighbour so, none is sitting between them.

94. Answer: d

Explanation:

Given statement:

$D \leq R > E \leq B$; $S \leq M = E > D$; $G > B$

Conclusion:

I. $D > E \rightarrow$ false (as $D \leq R > E \rightarrow$ clear relation between D and E cannot be determined.)

II. $B < R \rightarrow$ false (as $R > E \leq B \rightarrow$ clear relation between B and R cannot be determined.)

Hence, neither conclusion I nor II is true.

95. Answer: c

Explanation:

Given statement:

$$D \leq R > E \leq B; S \leq M = E > D; G > B$$

On combining:

$$S \leq M = E \leq B < G$$

Conclusion:

I) $S < B \rightarrow \text{false}$ (as $S \leq M = E \leq B \rightarrow S \leq B$)

II) $B = S \rightarrow \text{false}$ (as $S \leq M = E \leq B \rightarrow S \leq B$)

Here, conclusions I and II form a complementary pair, thus, either I or II is true.

96. Answer: b

Explanation:

Given statement:

$$N = K \geq L \geq P < O < U \geq R; P > F$$

Conclusion:

I) $F \geq R \rightarrow \text{false}$ (as $F < P < O < U \geq R \rightarrow$ clear relation between F and R cannot be determined)

II) $N > F \rightarrow \text{true}$ (as $N = K \geq L \geq P > F \rightarrow N > F$)

Hence, only conclusion II is true.

97. Answer: e

Explanation:

TB Solution:

Given the statement:

$$Q > A \geq Z \leq X \leq C; Z = H$$

On combining:

$$Q > A \geq Z = H \leq X \leq C$$

Conclusion:

I. $Q > H \rightarrow \text{True}$ (as $Q > A \geq Z = H$)

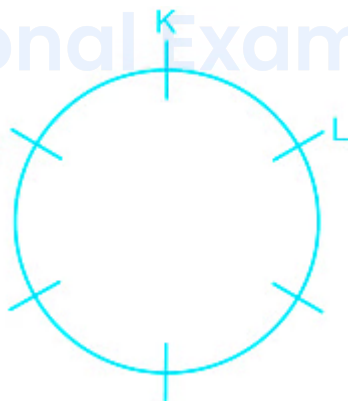
II. $Z \leq C \rightarrow \text{True}$ (as $Z \leq X \leq C$)

Hence, both I and II are True.

98. Answer: a

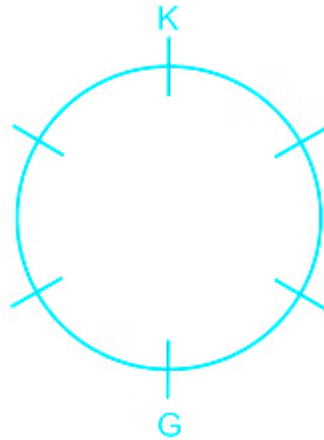
Explanation:

From Statement I: L is sitting to the immediate left of K



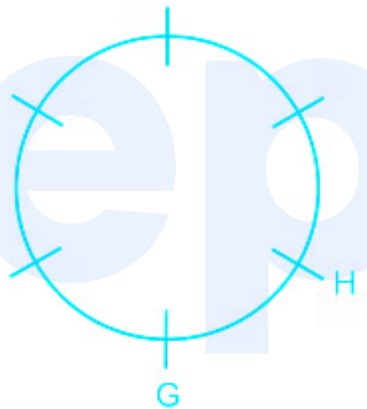
Statement I alone is not sufficient to answer the question.

From Statement II: K is sitting opposite to G



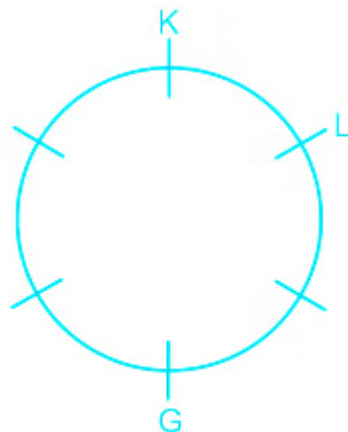
Statement II alone is not sufficient to answer the question.

From Statement III: H is sitting to the immediate right of G



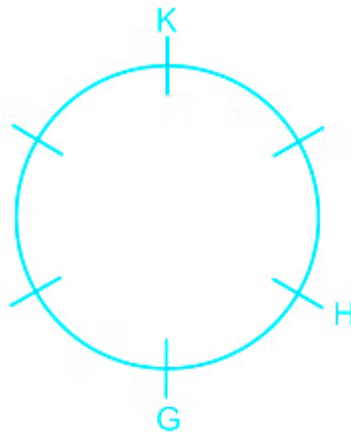
Statement III alone is not sufficient to answer the question.

From statements I and II: L is sitting to the immediate left of K. K is sitting opposite to G.



Statement I and II together are not sufficient to answer the question.

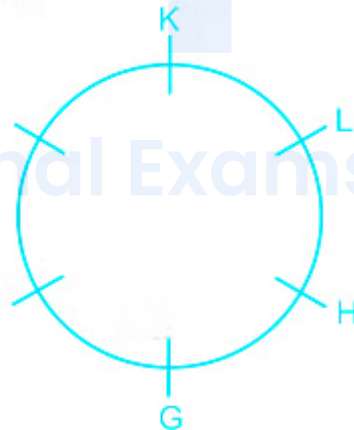
From statements II and III: K is sitting opposite to G. H is sitting to the immediate right of G.



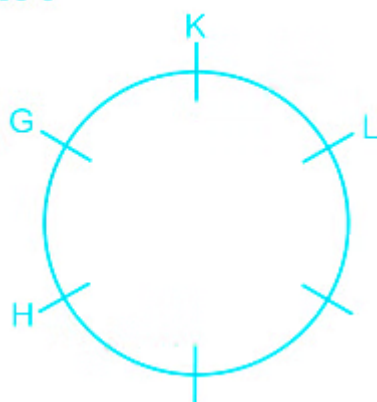
Statement II and III together are not sufficient to answer the question.

From statements I and III: L is sitting to the immediate left of K. H is sitting to the immediate right of G.

Case 1

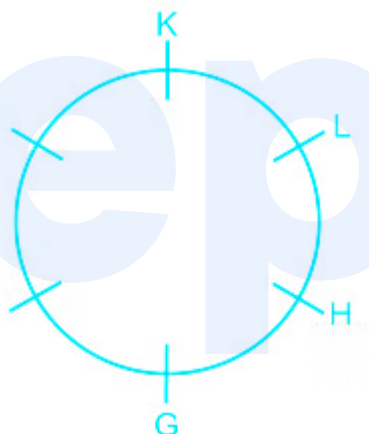


Case 3



Statement I and III together are not sufficient to answer the question.

Combining all statements,



Hence, data is not sufficient to answer the question.

99. Answer: d

Explanation:

1) Only two people earn more than N.

(Implies N is the third highest paid employee.)

_ _ N _ _

2) M is not one of the top two paid employees.

(Implies M earns less than N.)

_ _ N M _ or _ _ N _ M

3) Three people earn more than O.

(Implies O is the second lowest paid employee)

_ _ N O M

Thus M is the lowest paid employee.

So, all the statements are needed to get the answer.

100. Answer: e

Explanation:

From statement I:

There are 5 people are standing between P and R.

Exact position of P and R cannot be determined here.

Therefore, statement I alone is not sufficient to answer the question.

On combining I and II:

There are 5 people are standing between P and R.

R is standing eleventh to the right of Q.

Since, the exact position of Q is not clear from statement II. So, we cannot determine the position of P and R.

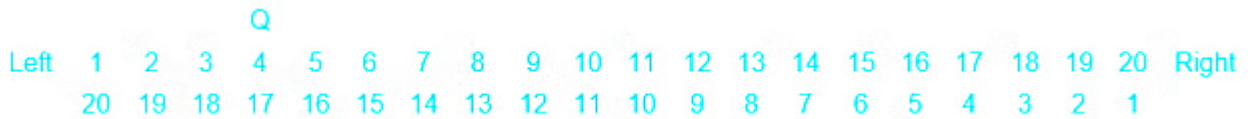
Therefore, statement I and II together are not sufficient to answer the question.

On combining I and III:

There are 5 people are standing between P and R.

Only 3 people are standing to the left of Q.

Therefore, statement I and III together are not sufficient to answer the question.



On combining II and III:

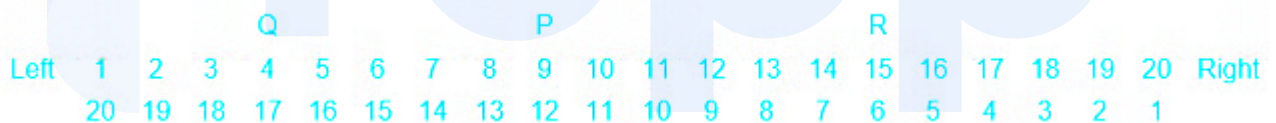
R is standing eleventh to the right of Q.

Only 3 people are standing to the left of Q.

As nothing is mentioned about P in both the statements so we cannot determine the position of P.

Therefore, statement II and III together are not sufficient to answer the question.

On combining I, II and III:



So, position of P is 12th from the right.

Hence, all the statements are required to answer the question.