



IBPS RRB Clerk 14 Nov 2016 shift 1

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Reasoning

Instructions

For the following questions answer them individually

Question 1

If only one meaningful English word can be made with the first, the fourth, the ninth and the tenth letters of the word CORRUPTION, using each letter only once, then which of the following is the third letter of the word from the left? If no such word can be formed then your answer is 'X'. If more than one such word can be formed then your answer is Z.

- A X
- B Z
- C R
- D O
- E C

Answer: C

Explanation:

Word - CORRUPTION

1st, 4th, 9th and 10th letters = C,R,O,N

Only 1 meaningful word can be formed = Corn

3rd letter from left = R

=> Ans - (C)

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Question 2

How many such pairs of digits are there in the number 67594138 (both in forward and backward directions), each of which has as many digits between them in the number as in the arithmetical series?

- A Two
- B None
- C One
- D Three
- E More than three

Answer: E

Question 3

In a queue of fifteen people facing north, Rahul's position is ninth from the end of the queue. Only four people are standing between Rahul and Tom, Karan is standing immediately after Tom. Bharti is standing exactly between Karan and Rahul. Sonali is standing before Bharti but after Tom. What is position of Sonali from the beginning of the queue? (Note : All people are standing one behind the other)

- A Cannot be determined
- B Seventh
- C Eleventh

D Fourth

E Sixth

Answer: D

Question 4

The following series is based on the English alphabet. Which one of the following will come in place of the question mark (?) in the given alphabetical series?

XBF UDK RFO OHR ?

A LKU

B MKS

C LJT

D MJS

E LJV

Answer: C

Explanation:

Series : XBF UDK RFO OHR ?

The first letters of the above series are decreasing by a factor of 3. Thus the first letter = $O - 3 = L$

The second letters are increasing by a factor of 2, \Rightarrow Second letter = $H + 2 = J$

The third letters are increasing by a factor of $(+5,+4,+3)$, \Rightarrow Third letter = $R + 2 = T$

\therefore LJT is next in the series.

\Rightarrow Ans - (C)

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Instructions

Study the following information carefully and answer the questions given below :

S is 11m east of N. N is 8m North of P. P is 4m west of O. Point O is the midpoint of Points P and R, such that P, O and R form a straight line. Q is 13m south of R.

Question 5

If L is 8m east of R and M is 7m south of L, then what is the distance between M and Q?

A 6m

B 10m

C 7m

D 5m

E 3m

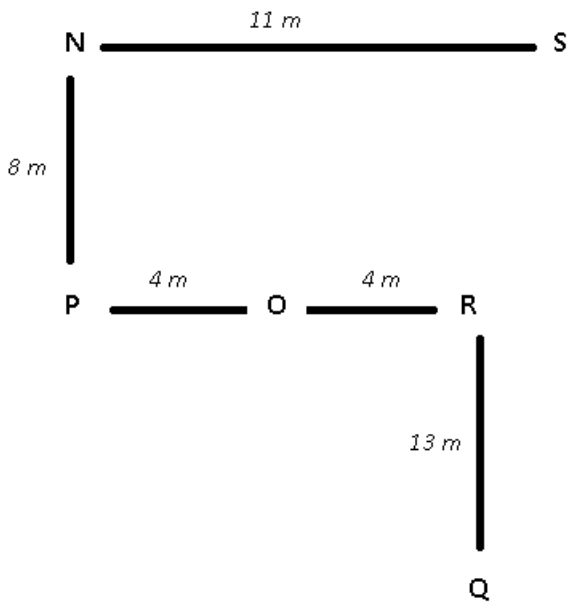
Answer: B

Explanation:

P is 4m west of O and Point O is the midpoint of Points P and R, \Rightarrow R is 4 m east of point O.

S is 11m east of N and N is 8m North of P.

Also, Q is 13m south of R.



If L is 8 m east of R and M is 7 m south of S, \Rightarrow vertical distance between M and Q = $13 - 7 = 6$ m

Horizontal distance between M and Q = 8 m

$$\Rightarrow \text{Distance between M and Q} = \sqrt{(8)^2 + (6)^2} = \sqrt{64 + 36}$$

$$= \sqrt{100} = 10 \text{ m}$$

\Rightarrow Ans - (B)

Question 6

In which direction is N with respect to Q?

- A North-West
- B West
- C East
- D North East
- E South West

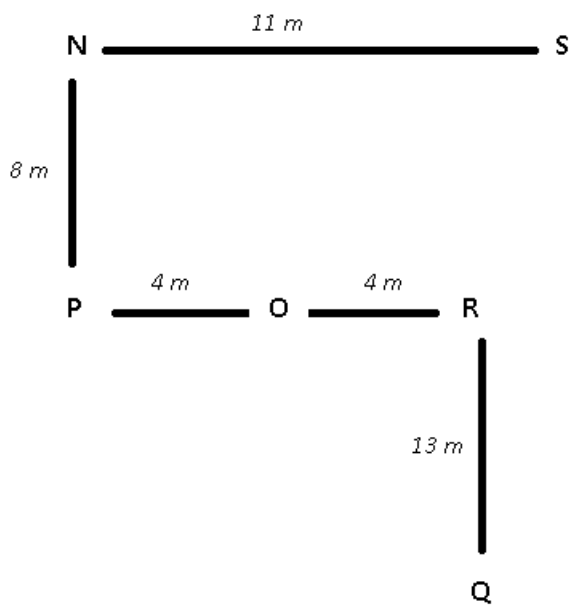
Answer: A

Explanation:

P is 4m west of O and Point O is the midpoint of Points P and R, \Rightarrow R is 4 m east of point O.

S is 11m east of N and N is 8m North of P.

Also, Q is 13m south of R.



N is in the north-west direction from Q.

=> Ans - (A)

Question 7

Hiten walks 2m towards north from Point P, takes a right turn and walks for 8m. How far will he be from Point Q?

- A 13m
- B 7m
- C 17m
- D 8m
- E 15m

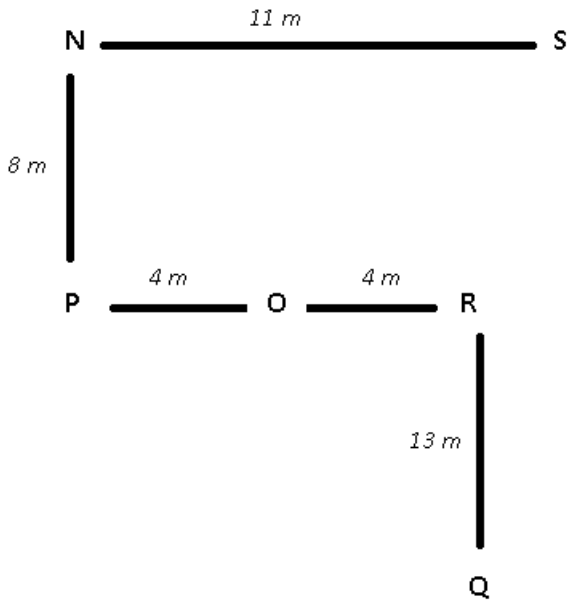
Answer: E

Explanation:

P is 4m west of O and Point O is the midpoint of Points P and R, => R is 4 m east of point O.

S is 11m east of N and N is 8m North of P.

Also, Q is 13m south of R.



Hiten walks 2 m towards north from P and then after a right turn and walks 8 m, => Hiten is now 2 m of the north of point R.

Distance from Q = 2 + 13 = 15 m

=> Ans - (E)

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Instructions

Study the following information carefully and answer the questions given below :S is the husband of D. A is the brother of D. A is the only son of B.D is the sister of Q. R is married to Q. M is the father of R. N is the daughter of Q.

Question 8

If V is the grandfather of N, then how is B related to R?

- A Uncle
- B Mother-in-law
- C Grandmother
- D Aunt
- E Father-in-law

Answer: B

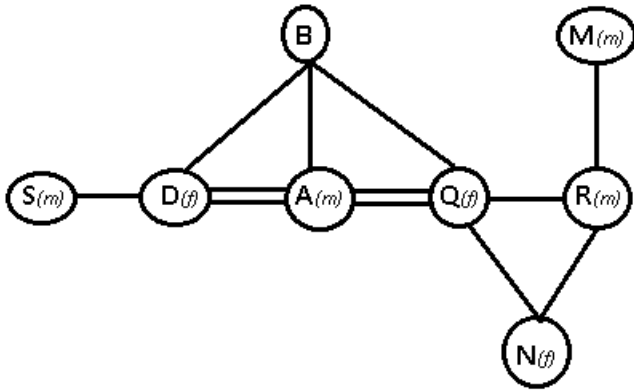
Explanation:

A (male) , D (female) and Q (female) are children of B, whose gender is unknown.

R is married to Q, => R is male. Similarly, S (male) is married to D.

Also, N is daughter of Q and R, and M is father of R.

In the below diagram, '=' represents siblings and '-' represents married couples.



If V is grandfather of N, => V is male who is married to B (female).

Now, B is mother of R's wife, => B is mother-in-law of R.

=> Ans - (B)

Question 9

How is S related to Q?

- A Father
- B Grandfather
- C Brother-in-law
- D Uncle
- E Nephew

Answer: C

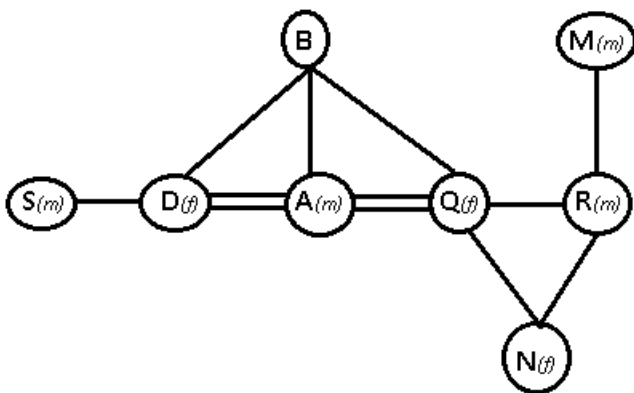
Explanation:

A (male) , D (female) and Q (female) are children of B, whose gender is unknown.

R is married to Q, => R is male. Similarly, S (male) is married to D.

Also, N is daughter of Q and R, and M is father of R.

In the below diagram, '=' represents siblings and '-' represents married couples.



S is husband of Q's sister, => S is brother-in-law of Q.

=> Ans - (C)

Question 10

How is D related to N?

- A Mother
- B Sister-in-law
- C Cousin
- D Mother-in-law
- E Aunt

Answer: E

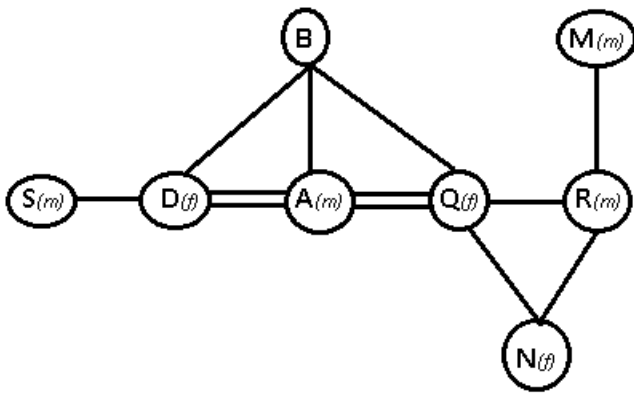
Explanation:

A (male) , D (female) and Q (female) are children of B, whose gender is unknown.

R is married to Q, => R is male. Similarly, S (male) is married to D.

Also, N is daughter of Q and R, and M is father of R.

In the below diagram, '=' represents siblings and '-' represents married couples.



D is sister of N's mother, => D is aunt of N.

=> Ans - (E)

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Instructions

In these questions, relationship between different elements is shown in the statement(s). The statement(s) are followed by two Conclusions numbered I and II. Study the Conclusions based on the given statement(s) and select the appropriate answer.

- Give answer a: if either Conclusion I or Conclusion II is true
- Give answer b: if neither Conclusion I nor Conclusion II is true
- Give answer c: if only Conclusion I is true
- Give answer d: if both Conclusions I and II are true
- Give answer e: if only Conclusion II is true

Question 11

Statements :

$$P < E < T \leq R; T > K$$

Conclusions :

- I. $K > P$
- II. $R \geq K$

- A if either Conclusion I or Conclusion II is true
- B if neither Conclusion I nor Conclusion II is true
- C if only Conclusion I is true

D if both Conclusions I and II are true

E if only Conclusion II is true

Answer: B

Question 12

Statements :

$$X < W ; A > C \geq H = W$$

Conclusions :

I. $C > X$

II. $A > W$

A if either Conclusion I or Conclusion II is true

B if neither Conclusion I nor Conclusion II is true

C if only Conclusion I is true

D if both Conclusions I and II are true

E if only Conclusion II is true

Answer: D

Question 13

Statements:

$$J \leq L < B \leq S > Y < M$$

Conclusions :

I. $J < M$

II. $L \geq Y$

A if either Conclusion I or Conclusion II is true

B if neither Conclusion I nor Conclusion II is true

C if only Conclusion I is true

D if both Conclusions I and II are true

E if only Conclusion II is true

Answer: B

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Question 14

Statements

$$B \leq N < D ; K = R < D \leq W$$

Conclusions :

I. $N = R$

II. $B < W$

A if either Conclusion I or Conclusion II is true

B if neither Conclusion I nor Conclusion II is true

C if only Conclusion I is true

D if both Conclusions I and II are true

E if only Conclusion II is true

Answer: E

Question 15

Statements:

$$B \leq N < D; K = R < D \leq W$$

Conclusions :

I. $W > K$

II. $N \geq W$

A if either Conclusion I or Conclusion II is true

B if neither Conclusion I nor Conclusion II is true

C if only Conclusion I is true

D if both Conclusions I and II are true

E if only Conclusion II is true

Answer: C

Instructions

Study the following information carefully and answer the questions given below :

Eight persons—A, B, C, D, M, N, O and P — are sitting around a square table (but not necessarily in the same order) in such a way that four of them sit at four corners while four sit in the middle of each of the four sides. The ones sitting in the middle of the sides are facing the centre and the ones sitting at the corners are facing outside (i.e. opposite to the centre). A sits in the middle of one of the sides. Only one person sits between A and M. A sits third to the right of B. Only three persons sit between B and N. C sits second to the right of N. O and C face the same direction. M is not an immediate neighbour of O. P sits second to the right of D.

Question 16

Who is to the immediate left of M?

A N

B B

C D

D P

E C

Answer: E

Explanation:

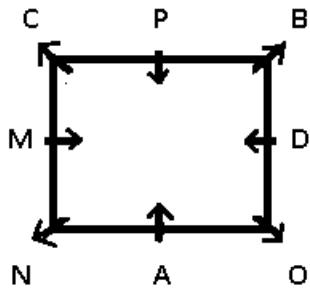
A sits in the middle and third to the right of B, => B sits at a corner facing outside.

Only three persons sit between B and N, => N sits opposite B and C sits second to the right of N.

O and C face the same direction, => O also sits on one of the corners to the immediate right of A.

Only one person sits between A and M and M is not an immediate neighbour of O, => M sits second to the left of A.

P sits second to the right of D. The arrangement is :



C is sitting to the immediate left of M.

=> Ans - (E)

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Question 17

What is the position of O with respect to P?

- A Fourth to the left
- B Third to the left
- C Third to the right
- D Immediate right
- E Immediate left

Answer: B

Explanation:

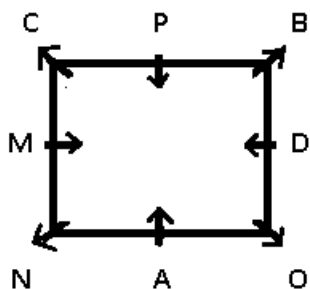
A sits in the middle and third to the right of B, => B sits at a corner facing outside.

Only three persons sit between B and N, => N sits opposite B and C sits second to the right of N.

O and C face the same direction, => O also sits on one of the corners to the immediate right of A.

Only one person sits between A and M and M is not an immediate neighbour of O, => M sits second to the left of A.

P sits second to the right of D. The arrangement is :



O is third to the left of P.

=> Ans - (B)

Question 18

Which of the following statements is true with respect to the given arrangement?

- A None of the given statements is true
- B Only three people sit between O and D.

- C D sits third to the left of A.
- D M sits at one of the corners of the table.
- E M is an immediate neighbour of P.

Answer: A

Explanation:

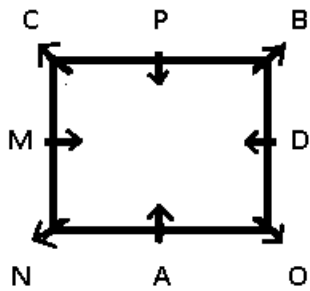
A sits in the middle and third to the right of B, => B sits at a corner facing outside.

Only three persons sit between B and N, => N sits opposite B and C sits second to the right of N.

O and C face the same direction, => O also sits on one of the corners to the immediate right of A.

Only one person sits between A and M and M is not an immediate neighbour of O, => M sits second to the left of A.

P sits second to the right of D. The arrangement is :



Clearly, none of the given statements is true.

=> Ans - (A)

Question 19

As per the given arrangement, four of the following five are alike in a certain way and hence form a group. Which of the following does not belong to the group?

- A D
- B A
- C P
- D O
- E M

Answer: D

Explanation:

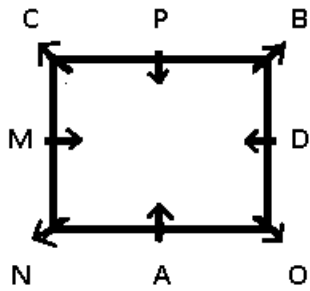
A sits in the middle and third to the right of B, => B sits at a corner facing outside.

Only three persons sit between B and N, => N sits opposite B and C sits second to the right of N.

O and C face the same direction, => O also sits on one of the corners to the immediate right of A.

Only one person sits between A and M and M is not an immediate neighbour of O, => M sits second to the left of A.

P sits second to the right of D. The arrangement is :



D,A,P and M are sitting in the middle while O is sitting at the corner.

=> Ans - (D)

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Question 20

Who amongst the following sit exactly between B and the one who sits to the immediate right of N, when counted from the left of B?

- A O, D
- B M, P
- C C, P
- D M, C
- E A, C

Answer: C

Explanation:

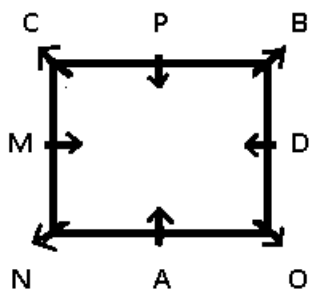
A sits in the middle and third to the right of B, => B sits at a corner facing outside.

Only three persons sit between B and N, => N sits opposite B and C sits second to the right of N.

O and C face the same direction, => O also sits on one of the corners to the immediate right of A.

Only one person sits between A and M and M is not an immediate neighbour of O, => M sits second to the left of A.

P sits second to the right of D. The arrangement is :



Only 2 persons live between B and M (immediate right of N), when counted from the left of B, who are = C and P.

=> Ans - (C)

Instructions

Study the following information carefully and answer the questions given below :

Nine persons – E, F, G, H, K, L, M, N and O – are seated in a straight line facing north, with equal distance between each other but not necessarily in the same order. Only two persons sit between E and the one sitting at extreme ends of the line. K sits second to the right of E. H sits fourth to the left of M. M does not sit at any of the extreme ends of the line. M is not an immediate neighbour of E. The number of people sitting between H and K is double than that between M and O. More than two people sit between G and E. G is not an immediate neighbour of M. F is an immediate neighbour of L but not H.

Question 21

Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which is the one that does not belong to that group?

- A N, E
- B M, H
- C K, L
- D O, N
- E F, O

Answer: D

Explanation:

Only two persons sit between E and the one sitting at extreme ends of the line, => E sits fourth from the left end of the line.

Also, K sits second to the right of E.

H sits fourth to the left of M and M does not sit at any of the extreme ends of the line and M is not an immediate neighbour of E,

=> M sits to the immediate right of K and H sits to the immediate left of E.

Since, the number of people sitting between H and K are 2, thus only 1 person is sitting between M and O, => O is sitting second to the left of M.

More than two people sit between G and E and G is not an immediate neighbour of M, => G sits at the right end of the line.

F is an immediate neighbour of L but not H, => F sits to the left end of the line and L to its immediate right.

The only vacant position now is taken by N. The arrangement is :

F	L	H	E	O	K	M	N	G
---	---	---	---	---	---	---	---	---

There are 3 people sitting between them in all the options apart from the fourth one where only 2 people are sitting between O and N.

=> Ans - (D)

Question 22

Which of the following statements is true with respect to N as per the given arrangement?

- A N is an immediate neighbour of H.
- B N sits second to the left of M.
- C N sits at one of the extreme ends of the line.
- D More than two people sit between N and G.
- E None of the given options is true

Answer: E

Explanation:

Only two persons sit between E and the one sitting at extreme ends of the line, => E sits fourth from the left end of the line.

Also, K sits second to the right of E.

H sits fourth to the left of M and M does not sit at any of the extreme ends of the line and M is not an immediate neighbour of E,

=> M sits to the immediate right of K and H sits to the immediate left of E.

Since, the number of people sitting between H and K are 2, thus only 1 person is sitting between M and O, => O is sitting second to the left of M.

More than two people sit between G and E and G is not an immediate neighbour of M, => G sits at the right end of the line.

F is an immediate neighbour of L but not H, => F sits to the left end of the line and L to its immediate right.

The only vacant position now is taken by N. The arrangement is :

F	L	H	E	O	K	M	N	G
---	---	---	---	---	---	---	---	---

N is not an immediate neighbour of H. N sits to the immediate right of M. N does not sit at an extreme end. N and G are neighbours.

Thus, none of the options is true.

=> Ans - (E)

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Question 23

Who sits second to the left of H?

- A N
- B K
- C F
- D E
- E No one as H sits at one of the extreme ends of the line

Answer: C

Explanation:

Only two persons sit between E and the one sitting at extreme ends of the line, => E sits fourth from the left end of the line.

Also, K sits second to the right of E.

H sits fourth to the left of M and M does not sit at any of the extreme ends of the line and M is not an immediate neighbour of E,

=> M sits to the immediate right of K and H sits to the immediate left of E.

Since, the number of people sitting between H and K are 2, thus only 1 person is sitting between M and O, => O is sitting second to the left of M.

More than two people sit between G and E and G is not an immediate neighbour of M, => G sits at the right end of the line.

F is an immediate neighbour of L but not H, => F sits to the left end of the line and L to its immediate right.

The only vacant position now is taken by N. The arrangement is :

F	L	H	E	O	K	M	N	G
---	---	---	---	---	---	---	---	---

F sits second to the left of H.

=> Ans - (C)

Question 24

Who amongst the following sit exactly between N and O?

- A H, L
- B M, K
- C F, K
- D F, G
- E K, E

Answer: B

Explanation:

Only two persons sit between E and the one sitting at extreme ends of the line, => E sits fourth from the left end of the line.

Also, K sits second to the right of E.

H sits fourth to the left of M and M does not sit at any of the extreme ends of the line and M is not an immediate neighbour of E, => M sits to the immediate right of K and H sits to the immediate left of E.

Since, the number of people sitting between H and K are 2, thus only 1 person is sitting between M and O, => O is sitting second to the left of M.

More than two people sit between G and E and G is not an immediate neighbour of M, => G sits at the right end of the line.

F is an immediate neighbour of L but not H, => F sits to the left end of the line and L to its immediate right.

The only vacant position now is taken by N. The arrangement is :

F	L	H	E	O	K	M	N	G
---	---	---	---	---	---	---	---	---

M and K is sitting between N and O.

=> Ans - (B)

Question 25

In which of the given pairs of people, is even number of people sitting between them?

- A G, E
- B K, L
- C F, M
- D O, M
- E K, N

Answer: A

Explanation:

Only two persons sit between E and the one sitting at extreme ends of the line, => E sits fourth from the left end of the line.

Also, K sits second to the right of E.

H sits fourth to the left of M and M does not sit at any of the extreme ends of the line and M is not an immediate neighbour of E, => M sits to the immediate right of K and H sits to the immediate left of E.

Since, the number of people sitting between H and K are 2, thus only 1 person is sitting between M and O, => O is sitting second to the left of M.

More than two people sit between G and E and G is not an immediate neighbour of M, => G sits at the right end of the line.

F is an immediate neighbour of L but not H, => F sits to the left end of the line and L to its immediate right.

The only vacant position now is taken by N. The arrangement is :

F	L	H	E	O	K	M	N	G
---	---	---	---	---	---	---	---	---

Number of persons sitting between :

G & E = 4 (even)

K & L = 3

F & M = 5

O & M = 1

K & N = 1

=> Ans - (A)

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Instructions

Study the following information carefully and answer the questions given below :

Sagar sells mobiles of seven different companies viz., Samsung, HTC, Lenovo, Intex, Micromax, Nokia and Oppo starting from Monday and ending on Sunday, but not necessarily in the same order. Sagar sold HTC on Monday. He sold only three mobiles between HTC and Samsung. He does not sell any mobile between the day he sold Samsung and Lenovo. He sold only two mobiles between Lenovo and Oppo. He sold Micromax mobiles the day immediately before the day he sold Oppo mobiles. He sold Intex on one of the days after Oppo but not on Sunday.

Question 26

On which day Sagar sold Micromax?

- A Thursday
- B Tuesday
- C Friday
- D Saturday
- E Wednesday

Answer: B

Explanation:

Sagar sold HTC on Monday and sold only three mobiles between HTC and Samsung, => He sold Samsung on Friday.

He does not sell any mobile between the day he sold Samsung and Lenovo, => He sold Lenovo on Saturday.

He sold only two mobiles between Lenovo and Oppo and sold Micromax mobiles the day immediately before the day he sold Oppo,

=> He sold oppo on Wednesday and Micromax on Tuesday.

He sold Intex on one of the days after Oppo but not on Sunday, => He sold Intex on Thursday and Nokia on Sunday.

The arrangement is :

Day	Mobile
Monday	HTC
Tuesday	Micromax
Wednesday	Oppo
Thursday	Intex
Friday	Samsung
Saturday	Lenovo
Sunday	Nokia

Sagar sold Micromax on Tuesday.

=> Ans - (B)

Question 27

How many mobiles did Sagar sell between HTC and Lenovo?

- A One
- B Two
- C Four

D None

E Three

Answer: C

Explanation:

Sagar sold HTC on Monday and sold only three mobiles between HTC and Samsung, => He sold Samsung on Friday.

He does not sell any mobile between the day he sold Samsung and Lenovo, => He sold Lenovo on Saturday.

He sold only two mobiles between Lenovo and Oppo and sold Micromax mobiles the day immediately before the day he sold Oppo,

=> He sold oppo on Wednesday and Micromax on Tuesday.

He sold Intex on one of the days after Oppo but not on Sunday, => He sold Intex on Thursday and Nokia on Sunday.

The arrangement is :

Day	Mobile
Monday	HTC
Tuesday	Micromax
Wednesday	Oppo
Thursday	Intex
Friday	Samsung
Saturday	Lenovo
Sunday	Nokia

Sagar sold 4 mobiles between HTC and Lenovo.

=> Ans - (C)

Question 28

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

- A Sagar sells mobiles of any one company between Samsung and Nokia.
- B Sagar sells Intex on Thursday
- C Sagar did not sell mobile of any other company between Oppo and Intex
- D All the given statements are true
- E Sagar sells Lenovo on Friday

Answer: E

Explanation:

Sagar sold HTC on Monday and sold only three mobiles between HTC and Samsung, => He sold Samsung on Friday.

He does not sell any mobile between the day he sold Samsung and Lenovo, => He sold Lenovo on Saturday.

He sold only two mobiles between Lenovo and Oppo and sold Micromax mobiles the day immediately before the day he sold Oppo,

=> He sold oppo on Wednesday and Micromax on Tuesday.

He sold Intex on one of the days after Oppo but not on Sunday, => He sold Intex on Thursday and Nokia on Sunday.

The arrangement is :

Day	Mobile
Monday	HTC
Tuesday	Micromax
Wednesday	Oppo
Thursday	Intex
Friday	Samsung
Saturday	Lenovo
Sunday	Nokia

Sagar sells Lenovo on Saturday and not on Friday.

=> Ans - (E)

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Question 29

Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which is the one that does not belong to that group?

- A Nokia—Friday
- B Samsung—Thursday
- C Micromax—Monday
- D Intex—Wednesday
- E Oppo—Tuesday

Answer: A

Explanation:

Sagar sold HTC on Monday and sold only three mobiles between HTC and Samsung, => He sold Samsung on Friday.

He does not sell any mobile between the day he sold Samsung and Lenovo, => He sold Lenovo on Saturday.

He sold only two mobiles between Lenovo and Oppo and sold Micromax mobiles the day immediately before the day he sold Oppo,

=> He sold oppo on Wednesday and Micromax on Tuesday.

He sold Intex on one of the days after Oppo but not on Sunday, => He sold Intex on Thursday and Nokia on Sunday.

The arrangement is :

Day	Mobile
Monday	HTC
Tuesday	Micromax
Wednesday	Oppo
Thursday	Intex
Friday	Samsung
Saturday	Lenovo
Sunday	Nokia

The pattern followed above is that there is no gap between the day mentioned and on the day the mobile is sold, but there is a gap of 1 day between Nokia (sold on Sunday) and Friday.

=> Ans - (A)

Question 30

Which mobile did Sagar sell on Sunday?

- A Oppo
- B Lenovo
- C Micromax
- D Nokia
- E None of those given as options

Answer: D

Explanation:

Sagar sold HTC on Monday and sold only three mobiles between HTC and Samsung, => He sold Samsung on Friday.

He does not sell any mobile between the day he sold Samsung and Lenovo, => He sold Lenovo on Saturday.

He sold only two mobiles between Lenovo and Oppo and sold Micromax mobiles the day immediately before the day he sold Oppo,

=> He sold oppo on Wednesday and Micromax on Tuesday.

He sold Intex on one of the days after Oppo but not on Sunday, => He sold Intex on Thursday and Nokia on Sunday.

The arrangement is :

Day	Mobile
Monday	HTC
Tuesday	Micromax
Wednesday	Oppo
Thursday	Intex
Friday	Samsung
Saturday	Lenovo
Sunday	Nokia

Sagar sold Nokia on Sunday.

=> Ans - (D)

Instructions

In these questions, two/three statements followed by two Conclusions numbered I and II are given. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows disregarding commonly known facts.

Give answer a: if either Conclusion I or Conclusion II follows

Give answer b: if neither Conclusion I nor Conclusion II follows

Give answer c: if only Conclusion I follows

Give answer d: if both the Conclusions I and II follow

Give answer e: if only Conclusion II follows

Question 31

Statements :

All copies are books.

No book is a pencil.

All pencils are rubbers.

Conclusions :

I. No rubber is a book.

II. Some copies are rubbers.

- A if either Conclusion I or Conclusion II follows
- B if neither Conclusion I nor Conclusion II follows
- C if only Conclusion I follows
- D if both the Conclusions I and II follow
- E if only Conclusion II follows

Answer: B

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Question 32

Statements :

All copies are books.

No book is a pencil.

All pencils are rubbers.

Conclusions :

I. No copy is a pencil.

II. Some books are rubbers.

- A if either Conclusion I or Conclusion II follows
- B if neither Conclusion I nor Conclusion II follows
- C if only Conclusion I follows
- D if both the Conclusions I and II follow
- E if only Conclusion II follows

Answer: C

Question 33

Statements :

Some mobiles are calculators.

Some calculators are pens.

Some pens are scales.

Conclusions :

I. No calculator is a scale.

II. Atleast some calculators are scales.

- A if either Conclusion I or Conclusion II follows
- B if neither Conclusion I nor Conclusion II follows
- C if only Conclusion I follows
- D if both the Conclusions I and II follow
- E if only Conclusion II follows

Answer: A

Question 34

Statements :

Some mobiles are calculators.

Some calculators are pens.

Some pens are scales.

Conclusions :

I. Some mobiles are scales.

II. All pens being calculators is a possibility.

- A if either Conclusion I or Conclusion II follows
- B if neither Conclusion I nor Conclusion II follows
- C if only Conclusion I follows
- D if both the Conclusions I and II follow
- E if only Conclusion II follows

Answer: E

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Question 35

Statements :

Some drinks are eatables.

All eatables are sweets.

Conclusions :

I. Atleast some sweets are drinks.

II. All drinks are sweets.

- A if either Conclusion I or Conclusion II follows
- B if neither Conclusion I nor Conclusion II follows
- C if only Conclusion I follows
- D if both the Conclusions I and II follow
- E if only Conclusion II follows

Answer: C

Instructions

Study the following information carefully and answer the questions given below :

Nine friends – A, B, C, D, E, F, G, H and I – live on nine different floors of a building but not necessarily in the same order. The lower most floor of the building is numbered one, the one above that is numbered two and so on till the topmost floor is numbered nine. I lives on floor numbered six. E lives on an odd numbered floor above I. Only three people live between E and G. A lives on an even numbered floor immediately below D but not on the floor numbered eight. Only one person lives between A and F. C lives on one of the floors below F. The number of people living above C is equal to the number of people living below H.

Question 36

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

- A DE
- B FC

C HB

D EI

E AG

Answer: A

Explanation:

I lives on floor numbered six and E lives on an odd numbered floor above I, => let E lives on 7th floor.

Only three people live between E and G, => G lives on 3rd floor

A lives on an even numbered floor immediately below D but not on the floor numbered eight, => A lives on 4th floor and D lives on 5th floor.

Only one person lives between A and F and C lives on one of the floors below F, => F lives on 2nd floor which means C lives on 1st floor.

Since, 8 people live above C, => 8 people should live below H, => H lives on 9th floor.

The only remaining floor, i.e. 7th floor is taken by B. The arrangement :

Floor	Person
9	H
8	B
7	E
6	I
5	D
4	A
3	G
2	F
1	C

Apart from DE, all are neighbours.

=> Ans - (A)

Question 37

How many persons live between A and the person living on the floor numbered seven?

A More than three

B Two

C One

D None

E Three

Answer: B

Explanation:

I lives on floor numbered six and E lives on an odd numbered floor above I, => let E lives on 7th floor.

Only three people live between E and G, => G lives on 3rd floor

A lives on an even numbered floor immediately below D but not on the floor numbered eight, => A lives on 4th floor and D lives on 5th floor.

Only one person lives between A and F and C lives on one of the floors below F, => F lives on 2nd floor which means C lives on 1st floor.

Since, 8 people live above C, => 8 people should live below H, => H lives on 9th floor.

The only remaining floor, i.e. 7th floor is taken by B. The arrangement :

Floor	Person
9	H
8	B
7	E
6	I
5	D
4	A
3	G
2	F
1	C

A lives on 4th floor. Thus, there are 2 person living between him and the person on 7th floor.

=> Ans - (B)

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Question 38

H lives on which of the following floor numbers?

- A Eight
- B One
- C Five
- D Nine
- E Other than those given as options

Answer: D

Explanation:

I lives on floor numbered six and E lives on an odd numbered floor above I, => let E lives on 7th floor.

Only three people live between E and G, => G lives on 3rd floor

A lives on an even numbered floor immediately below D but not on the floor numbered eight, => A lives on 4th floor and D lives on 5th floor.

Only one person lives between A and F and C lives on one of the floors below F, => F lives on 2nd floor which means C lives on 1st floor.

Since, 8 people live above C, => 8 people should live below H, => H lives on 9th floor.

The only remaining floor, i.e. 7th floor is taken by B. The arrangement :

Floor	Person
9	H
8	B
7	E
6	I
5	D
4	A
3	G
2	F
1	C

H lives on 9th floor.

=> Ans - (D)

Question 39

Which of the following statements is not true about B as per the given arrangement?

- A B lives on an even numbered floor.
- B All the given statements are true.
- C Only one person lives between B and E.
- D H lives immediately above B.
- E Only one person lives above B.

Answer: C

Explanation:

I lives on floor numbered six and E lives on an odd numbered floor above I, => let E lives on 7th floor.

Only three people live between E and G, => G lives on 3rd floor

A lives on an even numbered floor immediately below D but not on the floor numbered eight, => A lives on 4th floor and D lives on 5th floor.

Only one person lives between A and F and C lives on one of the floors below F, => F lives on 2nd floor which means C lives on 1st floor.

Since, 8 people live above C, => 8 people should live below H, => H lives on 9th floor.

The only remaining floor, i.e. 7th floor is taken by B. The arrangement :

Floor	Person
9	H
8	B
7	E
6	I
5	D
4	A
3	G
2	F
1	C

Since, B and E are neighbours, thus there is no one living between B and E.

=> Ans - (C)

Question 40

In which of the given pairs of people, is even number of people living between them?

- A G, C
- B H, E
- C E, D
- D B, I
- E I, H

Answer: E

Explanation:

I lives on floor numbered six and E lives on an odd numbered floor above I, => let E lives on 7th floor.

Only three people live between E and G, => G lives on 3rd floor

A lives on an even numbered floor immediately below D but not on the floor numbered eight, => A lives on 4th floor and D lives on 5th floor.

Only one person lives between A and F and C lives on one of the floors below F, => F lives on 2nd floor which means C lives on 1st floor.

Since, 8 people live above C, => 8 people should live below H, => H lives on 9th floor.

The only remaining floor, i.e. 7th floor is taken by B. The arrangement :

Floor	Person
9	H
8	B
7	E
6	I
5	D
4	A
3	G
2	F
1	C

Number of persons living between :

G & C = 1

H & E = 1

E & D = 1

B & I = 1

I & H = 2 (even)

=> Ans - (E)

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Quant

Instructions

What approximate value will come in place of question mark (?) in the given questions:

(You are not expected to calculate the exact value)

Question 41

$$415.9 \div 4.02 + 13.04 \times 28.978 = ?$$

- A 480
- B 470
- C 410
- D 490
- E 240

Answer: A

Explanation:

$$\text{Expression : } 415.9 \div 4.02 + 13.04 \times 28.978 = ?$$

$$= \left(\frac{416}{4} \right) + (13 \times 29)$$

$$= 104 + 377 = 481$$

$$\approx 480$$

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Question 42

$$? \% \text{ of } (767 \div 6) = 7.889^2$$

- A 25
- B 60
- C 40
- D 50
- E 75

Answer: D

Explanation:

$$\text{Expression : } ? \% \text{ of } (767 \div 6) = 7.889^2$$

$$\Rightarrow x \% \text{ of } \frac{768}{6} = (8)^2$$

$$\Rightarrow \frac{x}{100} \times 128 = 64$$

$$\Rightarrow x = 64 \times \frac{100}{128}$$

$$\Rightarrow x = \frac{100}{2} = 50$$

Question 43

$$319.89 - 15.03 \times 3.692 = 1039.88 \div ?$$

- A 6
- B 8
- C 4
- D 2

E 12

Answer: C

Explanation:

Expression : $319.89 - 15.03 \times 3.692 = 1039.88 \div ?$

$$\Rightarrow 320 - (15 \times 4) = \frac{1040}{x}$$

$$\Rightarrow 320 - 60 = \frac{1040}{x}$$

$$\Rightarrow x = \frac{1040}{260} = 4$$

Question 44

$124.99 \times 4.998 + 129.992 - 75.05 = ?$

A 540

B 780

C 680

D 620

E 760

Answer: C

Explanation:

Expression : $124.99 \times 4.998 + 129.992 - 75.05 = ?$

$$\approx (125 \times 5) + 130 - 75$$

$$= 625 + 55 = 680$$

Question 45

$\sqrt{239.92 \times 2.995 - 94.95} = ?$

A 35

B 10

C 25

D 15

E 20

Answer: C

Explanation:

Expression : $\sqrt{239.92 \times 2.995 - 94.95} = ?$

$$\approx \sqrt{(240 \times 3) - 95}$$

$$= \sqrt{720 - 95} = \sqrt{625}$$

$$= 25$$

Instructions

For the following questions answer them individually

Question 46

Jar A contains 78 litres of milk and water in the respective ratio of 6 : 7. 26 litres of the mixture was taken out from Jar A. What quantity of milk should be added to jar A, so that water constitutes 40% of the resultant mixture in jar A?

- A 8 litres
- B 36 litres
- C 12 litres
- D 14 litres
- E 18 litres

Answer: E

Explanation:

Jar A has 78 litres of mixture of milk and water in the respective ratio of 6 : 7

$$\Rightarrow \text{Quantity of milk in Jar A} = \frac{6}{13} \times 78 = 36 \text{ litres}$$

$$\text{Quantity of water in Jar A} = 78 - 36 = 42 \text{ litres}$$

$$26 \text{ litres of the mixture was taken out from Jar A, i.e., } \frac{26}{78} = \left(\frac{1}{3}\right)^{\text{rd}}$$

$$\Rightarrow \text{Milk left} = 36 - \frac{1}{3} \times 36 = 24$$

$$\text{Water left} = 42 - \frac{1}{3} \times 42 = 28$$

Let milk added to jar A = x litres

$$\text{Acc. to ques, } \Rightarrow \frac{24+x}{28} = \frac{60}{40}$$

$$\Rightarrow \frac{24+x}{28} = \frac{3}{2}$$

$$\Rightarrow 48 + 2x = 84$$

$$\Rightarrow 2x = 84 - 48 = 36$$

$$\Rightarrow x = \frac{36}{2} = 18 \text{ litres}$$

Question 47

At its usual speed, a 150 metre long train crosses a platform of length L metres in 24 seconds. AT 75% of its usual speed, the train crosses a vertical pole in 12 seconds. What is the value of L ?

- A 250
- B 225
- C 240
- D 260
- E 280

Answer: A

Explanation:

Let speed of the train = $20x$ m/s

$$\text{Now, 75\% of the speed} = \frac{75}{100} \times 20x = 15x \text{ m/s}$$

Length of train = 150 m

Time taken to cross the pole = 12 sec

Using, $speed = \frac{distance}{time}$

$$\Rightarrow 15x = \frac{150}{12}$$

$$\Rightarrow x = \frac{10}{12} = \frac{5}{6}$$

Length of platform = l m

Acc. to ques, $\Rightarrow 20x = \frac{150+l}{24}$

$$\Rightarrow 20 \times \frac{5}{6} = \frac{150+l}{24}$$

$$\Rightarrow \frac{50}{3} = \frac{150+l}{24}$$

$$\Rightarrow 150 + l = 400$$

$$\Rightarrow l = 400 - 150 = 250 \text{ m}$$

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Question 48

In a class, the respective ratio between the number of boys and the number of girls is 3:1. A test was conducted, wherein the average score of the boys was 73, while that of the entire class was 71. What was the average score of the girls?

- A 68
- B 71
- C 67
- D 65
- E 63

Answer: D

Explanation:

Let number of boys = $3x$

\Rightarrow Number of girls = x

Let average score of girls = y

Acc. to ques,

$$\Rightarrow \frac{(73 \times 3x) + (y \times x)}{3x + x} = 71$$

$$\Rightarrow \frac{x(219 + y)}{4x} = 71$$

$$\Rightarrow 219 + y = 71 \times 4 = 284$$

$$\Rightarrow y = 284 - 219 = 65$$

Question 49

Two years ago, A's age was $\frac{1}{2}$ of B's age at that time. A's age four years hence will be 22 years less than B's age eight years hence. What is B's present age ?

- A 30 years
- B 24 years
- C 36 years
- D 42 years

E 38 years

Answer: E

Explanation:

Let present age of A and B be x and y years respectively.

$$\text{Acc. to ques, } \Rightarrow (x - 2) = \frac{1}{2}(y - 2)$$

$$\Rightarrow 2x - 4 = y - 2$$

$$\Rightarrow 2x - y = 2 \text{ -----(i)}$$

$$\text{Also, } (x + 4) = (y + 8) - 22$$

$$\Rightarrow x - y = -18 \text{ -----(ii)}$$

Multiplying eqn(ii) by 2 and subtracting it from (i), we get :

$$\Rightarrow (2x - 2x) + (-y + 2y) = (2 + 36)$$

$$\Rightarrow y = 38 \text{ years}$$

Instructions

In the following questions two equations numbered I and II are given. You have to solve both the equations and

Give answer a: if $x > y$

Give answer b: if $x \geq Y$

Give answer c: if $x < y$

Give answer d: if $x \leq Y$

Give answer e: if $x = y$ or the relationship between x and y cannot be established.

Question 50

I. $3x^2 + 14x + 15 = 0$

II. $2y^2 + 19y + 44 = 0$

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 between x and y cannot be established.

Answer: A

Explanation:

$$\text{I. } 3x^2 + 14x + 15 = 0$$

$$\Rightarrow 3x^2 + 9x + 5x + 15 = 0$$

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

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

$$\Rightarrow x = -3, \frac{-5}{3}$$

$$\text{II. } 2y^2 + 19y + 44 = 0$$

$$\Rightarrow 2y^2 + 8y + 11y + 44 = 0$$

$$\Rightarrow 2y(y + 4) + 11(y + 4) = 0$$

$$\Rightarrow (y + 4)(2y + 11) = 0$$

$$\Rightarrow y = -4, \frac{-11}{2}$$

$\therefore x > y$

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Question 51

I. $x^2 = 196$

II. $y^2 + 2y - 48 = 0$

- 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 between x and y cannot be established.

Answer: E

Explanation:

I. $x^2 = 196$

$\Rightarrow x = \sqrt{196}$

$\Rightarrow x = 14, -14$

II. $y^2 + 2y - 48 = 0$

$\Rightarrow y^2 + 8y - 6y - 48 = 0$

$\Rightarrow y(y + 8) - 6(y + 8) = 0$

$\Rightarrow (y + 8)(y - 6) = 0$

$\Rightarrow y = -8, 6$

\therefore No relation can be established.

Question 52

I. $2x^2 + 17x + 36 = 0$

II. $3y^2 + 20y + 33 = 0$

- 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 between x and y cannot be established.

Answer: C

Explanation:

I. $2x^2 + 17x + 36 = 0$

$\Rightarrow 2x^2 + 8x + 9x + 36 = 0$

$\Rightarrow 2x(x + 4) + 9(x + 4) = 0$

$\Rightarrow (x + 4)(2x + 9) = 0$

$\Rightarrow x = -4, \frac{-9}{2}$

$$\begin{aligned} \text{II. } 3y^2 + 20y + 33 &= 0 \\ \Rightarrow 3y^2 + 9y + 11y + 33 &= 0 \\ \Rightarrow 3y(y + 3) + 11(y + 3) &= 0 \\ \Rightarrow (y + 3)(3y + 11) &= 0 \\ \Rightarrow y = -3, \frac{-11}{3} \\ \therefore x < y \end{aligned}$$

Question 53

$$\begin{aligned} \text{I. } x^2 + 12x + 35 &= 0 \\ \text{II. } 3y^2 + 19y + 20 &= 0 \end{aligned}$$

- 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 between x and y cannot be established.

Answer: D

Explanation:

$$\begin{aligned} \text{I. } x^2 + 12x + 35 &= 0 \\ \Rightarrow x^2 + 7x + 5x + 35 &= 0 \\ \Rightarrow x(x + 7) + 5(x + 7) &= 0 \\ \Rightarrow (x + 7)(x + 5) &= 0 \\ \Rightarrow x = -5, -7 \end{aligned}$$

$$\begin{aligned} \text{II. } 3y^2 + 19y + 20 &= 0 \\ \Rightarrow 3y^2 + 15y + 4y + 20 &= 0 \\ \Rightarrow 3y(y + 5) + 4(y + 5) &= 0 \\ \Rightarrow (3y + 4)(y + 5) &= 0 \\ \Rightarrow y = -\frac{4}{3}, -5 \\ \therefore x \leq y \end{aligned}$$

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Question 54

$$\begin{aligned} \text{I. } x^2 - 7x + 10 &= 0 \\ \text{II. } y^2 - 5y + 6 &= 0 \end{aligned}$$

- 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 between x and y cannot be established.

Answer: E

Explanation:

$$I. x^2 - 7x + 10 = 0$$

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

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

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

$$\Rightarrow x = 5, 2$$

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

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

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

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

$$\Rightarrow y = 2, 3$$

\therefore No relation can be established.

Instructions

For the following questions answer them individually

Question 55

When 9 is subtracted from a two digit number, the number so formed is reverse of the original number. Also, the average of the digits of the original number is 7.5. What is definitely the original number ?

A 87

B 92

C 90

D 69

E 96

Answer: A

Explanation:

Let the ten's digit and unit's digit of the original number be x and y respectively.

$$\Rightarrow \text{original number} = 10x + y$$

$$\text{Average of digits} = \frac{x+y}{2} = 7.5$$

$$\Rightarrow x + y = 7.5 \times 2 = 15 \text{ -----(i)}$$

When 9 is subtracted from it, \Rightarrow Reverse number = $10y + x$

$$\Rightarrow (10x + y) - 9 = 10y + x$$

$$\Rightarrow 9x - 9y = 9$$

$$\Rightarrow x - y = \frac{9}{9} = 1 \text{ -----(ii)}$$

Adding equations (i) & (ii), we get :

$$\Rightarrow 2x = 16 \Rightarrow x = \frac{16}{2} = 8$$

Putting it in eqn(i), $\Rightarrow y = 15 - 8 = 7$

\therefore Original number = 87

Question 56

A, B and C have a certain amount of money with themselves. C has $\frac{3}{4}$ of what A has and B has Rs. 50 less than C. If A, B and C together have Rs. 250, then how much does A alone have? (in Rs.)

- A 75
- B 160
- C 80
- D 120
- E 140

Answer: D

Explanation:

Amount with A = Rs. $4x$

=> Amount with C = $\frac{3}{4} \times 4x = \text{Rs. } 3x$

=> Amount with B = Rs. $(3x - 50)$

Total amount with A, B & C = $4x + 3x + (3x - 50) = 250$

=> $10x = 250 + 50 = 300$

=> $x = \frac{300}{10} = 30$

\therefore Amount with A = $4 \times 30 = \text{Rs. } 120$

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Question 57

A boat takes six hours to travel a certain distance downstream and five hours to travel a certain distance upstream. The distance travelled upstream is half of the travelled downstream. If the speed of the current is 4 km/hr, what is the speed of the boat in still water? (in km/hr)

- A 16
- B 20
- C 24
- D 10
- E 18

Answer: A

Explanation:

Let speed of boat in still water = x km/hr

Let distance travelled downstream = $2d$ km

=> Distance travelled upstream = d km

Using, $time = \frac{distance}{speed}$

=> $6 = \frac{2d}{x+4}$ -----(i)

and $5 = \frac{d}{x-4}$ -----(ii)

Dividing eqn(i) from (ii), we get :

$$\Rightarrow \frac{6}{5} = \frac{x+4}{x-4}$$

$$\Rightarrow \frac{6}{5} = \frac{2(x-4)}{x+4}$$

$$\Rightarrow 6x + 24 = 10x - 40$$

$$\Rightarrow 10x - 6x = 24 + 40 = 64$$

$$\Rightarrow x = \frac{64}{4} = 16 \text{ km/hr}$$

Question 58

It takes Rs. 3159 to plant synthetic grass in a square lawn, $\frac{1}{4}$ of which is paved (and thus does not require grass). If each side of this lawn measures 18m, what is the rate that the gardener charges for planting synthetic grass? (in Rs./m²)

- A 18
- B 11
- C 16
- D 15
- E 13

Answer: E

Explanation:

Side of square lawn = 18 m

$$\text{Part of the lawn that requires grass} = 1 - \frac{1}{4} = \frac{3}{4}$$

$$\Rightarrow \text{Area of the lawn that requires grass} = \frac{3}{4} \times (18)^2$$

$$= 3 \times 9 \times 9 = 243 \text{m}^2$$

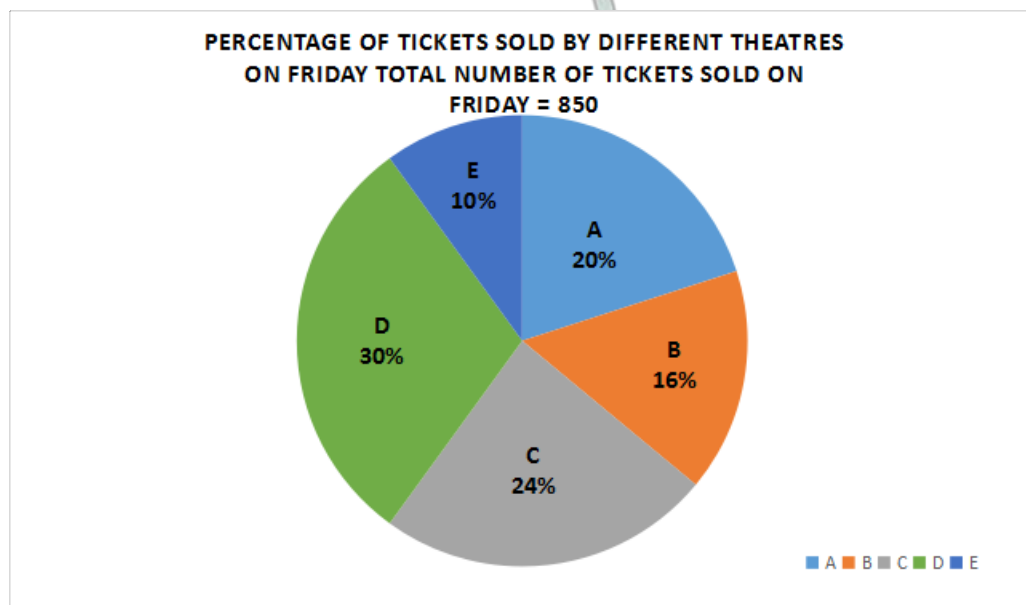
Total amount to plant grass = Rs. 3159

$$\therefore \text{Rate that the gardener charges for planting synthetic grass} = \frac{3159}{243} = 13$$

Instructions

Refer to the pie chart and answer the given questions.

Percentage of tickets sold by different theaters on Friday Total Number of tickets sold on Friday = 850



Question 59

What is the difference between the total number of tickets sold by theatres A and D together and then sold by theatres B and C together?

- A 82
- B 78
- C 55
- D 75
- E 85

Answer: E

Explanation:

% of tickets sold by theatres A and D together = $(20 + 30)\% = 50\%$

% of tickets sold by theatres B and C together = $(16 + 24)\% = 40\%$

% difference = $(50 - 40)\% = 10\%$

∴ Difference between the total number of tickets sold by theatres A and D together and then sold by theatres B and C together

$$= \frac{10}{100} \times 850 = 85$$

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Question 60

The number of tickets sold by theatre B, on Saturday, was 32 more than the number of tickets sold on Friday. The number of tickets sold by theatre E, on Saturday, was 59 more than the number of tickets sold on Friday. What was the respective ratio between the number of tickets sold by theatres B and E on Saturday?

- A 5 : 3
- B 7 : 6
- C 11 : 6
- D 7 : 5
- E 11 : 5

Answer: B

Explanation:

The number of tickets sold by theatre B on Friday = $\frac{16}{100} \times 850 = 136$

⇒ Number of tickets sold by theatre B on Saturday = $136 + 32 = 168$

The number of tickets sold by theatre E on Friday = $\frac{10}{100} \times 850 = 85$

⇒ Number of tickets sold by theatre E on Saturday = $85 + 59 = 144$

∴ Required ratio = $\frac{168}{144} = 7 : 6$

Question 61

If the total number of tickets sold by all the theatres together on Friday was 70% more than that sold on Thursday, what was the total number of tickets sold by all the theatres together on Thursday?

- A 400

- B 450
- C 500
- D 300
- E 550

Answer: C

Explanation:

Total number of tickets sold by all the theatres together on Friday = 850

Let total number of tickets sold by all the theatres together on Thursday = $100x$

$$\text{Acc. to ques, } \Rightarrow 100x + \frac{70}{100} \times 100x = 850$$

$$\Rightarrow 100x + 70x = 170x = 850$$

$$\Rightarrow x = \frac{850}{170} = 5$$

\therefore Total number of tickets sold by all the theatres together on Thursday = $100 \times 5 = 500$

Question 62

What is the central angle corresponding to the number of tickets sold by theatre B? (in degrees)

- A 56.8
- B 57.6
- C 58.5
- D 55.6
- E 54.2

Answer: B

Explanation:

% of tickets sold by theatre B = 16%

$$\therefore 100\% \equiv 360^\circ$$

$$\Rightarrow 16\% \equiv \frac{360}{100} \times 16$$

$$= 57.6^\circ$$

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Question 63

Out of the number of tickets sold by theatre C, $\frac{5}{12}$ were purchased by females and out of the total number of tickets sold by theatre D, $\frac{1}{17}$ were purchased by females. What was the total number of tickets purchased by females from theatres C and D together?

- A 100
- B 108
- C 110
- D 120
- E 104

Answer: A

Explanation:

$$\text{Total number of tickets sold by theatre C} = \frac{24}{100} \times 850 = 204$$

$$\Rightarrow \text{Tickets purchased by females} = \frac{5}{12} \times 204 = 85$$

$$\text{Total number of tickets sold by theatre D} = \frac{30}{100} \times 850 = 255$$

$$\Rightarrow \text{Tickets purchased by females} = \frac{1}{17} \times 255 = 15$$

\therefore Total number of tickets purchased by females from theatres C and D together
 $= 85 + 15 = 100$

Instructions

Based on the following table, answer the given questions. The data given in the table is for the month of October 2015

Institutes	Total Number of Students	Number of Students who have been enrolled for French classes	Percentage of female students out of the total number of students who have enrolled for French classes
R	800	320	60
S	750	400	59
T	480	210	80
U	900	390	30

Note : The institutes offer classes for French and Spanish Languages Only.

Question 64

The number of male students who have enrolled for French classes in the institute R is what per cent of the total number of students (males and females both) who have enrolled for both the classes in institute T?

A $23\frac{1}{3}$

B $22\frac{1}{3}$

C $24\frac{1}{3}$

D $27\frac{1}{3}$

E $26\frac{2}{3}$

Answer: E

Explanation:

Number of female students who have enrolled for French classes in the institute R

$$= \frac{60}{100} \times 320 = 192$$

$$\Rightarrow \text{Male students} = 320 - 192 = 128$$

Total number of students (males and females both) who have enrolled for both the classes in institute T = 480

$$\Rightarrow \text{Required \%} = \frac{128}{480} \times 100$$

$$= 26\frac{2}{3}\%$$

Question 65

In the institute S, the number of male students who have enrolled for Spanish class is 70% of the total number of students (males and females both) who have enrolled for Spanish class. What is the total number of male students who have enrolled for both the classes together in institute S?

- A 413
- B 419
- C 409
- D 423
- E 428

Answer: C

Explanation:

In institute S,

Total number of students who enrolled for french class = 400

$$\Rightarrow \text{Females} = \frac{59}{100} \times 400 = 236$$

$$\Rightarrow \text{Males} = 400 - 236 = 164$$

Total number of students who enrolled for Spanish class = 750 - 400 = 350

$$\Rightarrow \text{Males} = \frac{70}{100} \times 350 = 245$$

\therefore Total number of male students who have enrolled for both the classes together in institute S
= 164 + 245 = 409

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Question 66

The number of male students who have enrolled for French class in the institute S is approximately what per cent more than the number of female students who have enrolled for the same class in the institute U?

- A 25
- B 44
- C 38
- D 51
- E None of these

Answer: E

Explanation:

Total number of students who have enrolled for French class in the institute S = 400

$$\Rightarrow \text{Females} = \frac{59}{100} \times 400 = 236$$

$$\Rightarrow \text{Males} = 400 - 236 = 164$$

Number of female students who have enrolled for the same class in the institute U

$$= \frac{30}{100} \times 390 = 117$$

$$\therefore \text{Required \%} = \frac{164 - 117}{117} \times 100$$

$$= 40.17 \approx 40\%$$

Question 67

What is the respective ratio between number of students (both males and females) who have enrolled for Spanish class in institute R and those enrolled for the same classes in institute T?

- A 11 : 9
- B 16 : 9
- C 15 : 4
- D 18 : 7
- E None of these

Answer: B

Explanation:

Number of students (both males and females) who have enrolled for Spanish class in institute R
= 800 - 320 = 480

Number of students (both males and females) who have enrolled for Spanish class in institute T
= 480 - 210 = 270

$$\Rightarrow \text{Required ratio} = \frac{480}{270}$$

$$= 16 : 9$$

Question 68

The number of female students who have enrolled for French classes in the institute T is approximately what per cent of the total number of students (males and females both) enrolled in the institute U for Spanish classes?

- A 33%
- B 30%
- C 36%
- D 34%
- E None of these

Answer: A

Explanation:

Number of female students who have enrolled for French classes in the institute T
= $\frac{80}{100} \times 210 = 168$

Number of students (males and females both) enrolled in the institute U for Spanish classes
= 900 - 390 = 510

$$\Rightarrow \text{Required \%} = \frac{168}{510} \times 100$$

$$= 32.94 \approx 33\%$$

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Instructions

What will come in place of the question mark (?) in the given number series?

Question 69

10 11 15 24 40 ?

- A 90
- B 87
- C 114
- D 95
- E 65

Answer: E

Explanation:

Squares of natural numbers are added.

$$10 + 1^2 = 11$$

$$11 + 2^2 = 15$$

$$15 + 3^2 = 24$$

$$24 + 4^2 = 40$$

$$40 + 5^2 = 65$$

Question 70

25 35 49 67 89 ?

- A 24
- B 81
- C 115
- D 107
- E 93

Answer: C

Explanation:

Numbers with difference of 4 are added.

$$25 + 10 = 35$$

$$35 + 14 = 49$$

$$49 + 18 = 67$$

$$67 + 22 = 89$$

$$89 + 26 = 115$$

Question 71

11 9 15 41 159 ?

- A 740
- B 607
- C 751

D 789

E 785

Answer: D

Explanation:

The pattern followed is :

$$11 \times 1 - 2 = 9$$

$$9 \times 2 - 3 = 15$$

$$15 \times 3 - 4 = 41$$

$$41 \times 4 - 5 = 159$$

$$159 \times 5 - 6 = \mathbf{789}$$

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Question 72

8.5 10.5 16.5 28.5 48.5 ?

A 57.5

B 78.5

C 93.5

D 64.5

E 85.5

Answer: B

Explanation:

Numbers of the form $n(n + 1)$ are added, where n is natural number

$$8.5 + (1 \times 2) = 10.5$$

$$10.5 + (2 \times 3) = 16.5$$

$$16.5 + (3 \times 4) = 28.5$$

$$28.5 + (4 \times 5) = 48.5$$

$$48.5 + (5 \times 6) = \mathbf{78.5}$$

Question 73

18 9 9 18 72 ?

A 460

B 372

C 576

D 484

E 380

Answer: C

Explanation:

Numbers of the form 2^n are multiplied, where $n \geq -1$

$$18 \times 2^{-1} = 9$$

$$9 \times 2^0 = 9$$

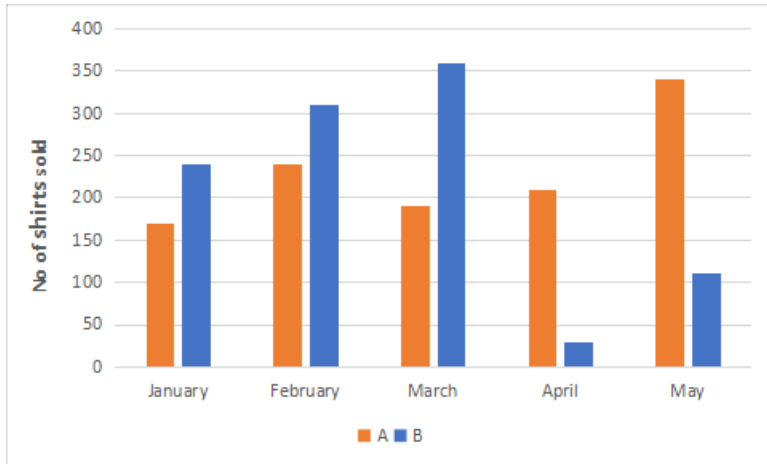
$$9 \times 2^1 = 18$$

$$18 \times 2^2 = 72$$

$$72 \times 2^3 = 576$$

Instructions

Refer to the graph and answer the given questions. Data related to number of shirts sold by two stores (A and B) during 5 months:



Question 74

What is the respective ratio between total number of shirts sold by store B in January and February together and that by the same store in April and May together?

- A 10 : 9
- B 7 : 5
- C 5 : 3
- D 3 : 2
- E None of these

Answer: E

Explanation:

Total number of shirts sold by store B in January and February

$$= 240 + 310 = 550$$

Total number of shirts sold by store B in April and May

$$= 30 + 110 = 140$$

$$\Rightarrow \text{Required ratio} = \frac{550}{140}$$

$$= 55 : 14$$

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Question 75

What is the average number of shirts sold by store A in January, April and May?

- A 270

- B 220
- C 260
- D 240
- E 230

Answer: D

Explanation:

Number of shirts sold by store A in January, April and May

$$= 170 + 210 + 340 = 720$$

$$\Rightarrow \text{Required average} = \frac{720}{3}$$

$$= 240$$

Question 76

The number of shirts sold by store A increased by what percent from February to May?

- A $39\frac{1}{3}$
- B $41\frac{2}{3}$
- C $47\frac{2}{3}$
- D $43\frac{1}{3}$
- E $45\frac{2}{3}$

Answer: B

Explanation:

Number of shirts sold by store A in February = 240

Number of shirts sold by store A in May = 340

$$\Rightarrow \text{Required \% increase} = \frac{340 - 240}{240} \times 100$$

$$= \frac{100}{3} = 41\frac{2}{3}\%$$

Question 77

If the total number of shirts sold by store A and B together in June is 20% more than that sold in March, what was the total number of shirts sold by stores A and B together in June?

- A 680
- B 690
- C 650
- D 670
- E 660

Answer: E

Explanation:

Total number of shirts sold by store A and B together in March

$$= 190 + 360 = 550$$

=> Total number of shirts sold by store A and B together in June

$$= 550 + \frac{20}{100} \times 550$$

$$= 550 + 110 = 660$$

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Question 78

If the total number of shirts sold by stores A and B together in December is 25% less than that sold in April, what was the total number of shirts sold by stores A and B together in December?

A 415

B 400

C 180

D 395

E 425

Answer: C

Explanation:

Total number of shirts sold by stores A and B together in April

$$= 210 + 30 = 240$$

=> Total number of shirts sold by stores A and B together in December

$$= 240 - \frac{25}{100} \times 240$$

$$= 240 - 60 = 180$$

Instructions

For the following questions answer them individually

Question 79

A starts a business with Rs. 2500. After one month from the start of the business, B joined with Rs. 4500 and A withdrew completely after eleven months from the start of the business. If the difference between A's and B's respective shares in the annual profit was Rs. 4800, what was the annual profit earned?

A Rs. 14800

B Rs. 16800

C Rs. 14400

D Rs. 11400

E Rs. 15600

Answer: B

Explanation:

Amount invested by A = Rs. 2500 and by B = Rs. 4500

Both invested for 11 months.

Ratio of profit shared by A and B

$$= (2500 \times 11) : (4500 \times 11)$$

$$= 5 : 9$$

Let total profit earned by A and B respectively = $Rs.5x$ and $Rs.9x$

$$\Rightarrow 9x - 5x = 4800$$

$$\Rightarrow x = \frac{4800}{4} = 1200$$

$$\therefore \text{Total profit} = 9x + 5x = 14x$$

$$= 14 \times 1200 = Rs.16,800$$

Question 80

A completes $\frac{5}{6}$ th of a given task in 10 days and is then replaced by B. The entire task is completed in 13 days. What is the respective ratio of the number of days in which A and B independently can complete the entire task?

A 2 : 7

B 3 : 8

C 1 : 4

D 2 : 3

E 6 : 11

Answer: D

Explanation:

Let total work to be done = 6 units

$$\Rightarrow \text{A completes } \frac{5}{6} \times 6 = 5 \text{ units in 10 days}$$

$$\Rightarrow \text{A's efficiency} = \frac{5}{10} = \frac{1}{2} \text{ units /day}$$

Now, B finishes $\frac{1}{6}$ th of the task in 3 days

$$\Rightarrow \text{B completes } \frac{1}{6} \times 6 = 1 \text{ units in 3 days}$$

$$\Rightarrow \text{B's efficiency} = \frac{1}{3} \text{ units /day}$$

$$\text{Now, time taken by A alone to complete the entire task} = \frac{6}{\frac{1}{2}} = 12 \text{ days}$$

$$\text{Time taken by B alone to complete the entire task} = \frac{6}{\frac{1}{3}} = 18 \text{ days}$$

$$\therefore \text{Required ratio} = \frac{12}{18} = 2 : 3$$

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