

IBPS RRB Clerk Pre 2025 Memory Based Paper Based on 7th December 1st Shift

Directions (1-5): Read the given information carefully and answer the related question:

Eight persons A, B, C, D, E, F, G and H sit around a square table but not in same order as given. Four persons sit at corner of the table facing inside and three sits at the middle of each side facing outside. Two persons sit between A and B. B faces inside. F sits immediate right of A. D sits adjacent to F and G. C sits second to the right of H.

Q1. What is the position of C with respect to F?

- (a) Fourth to the left
- (b) Second to the left
- (c) Third to the left
- (d) Immediate left
- (e) Third to the right

Q2. How many persons sit between A and H when they face each other?

- (a) Three
- (b) None
- (c) Two
- (d) Four
- (e) One

Q3. Who sits immediate left of G?

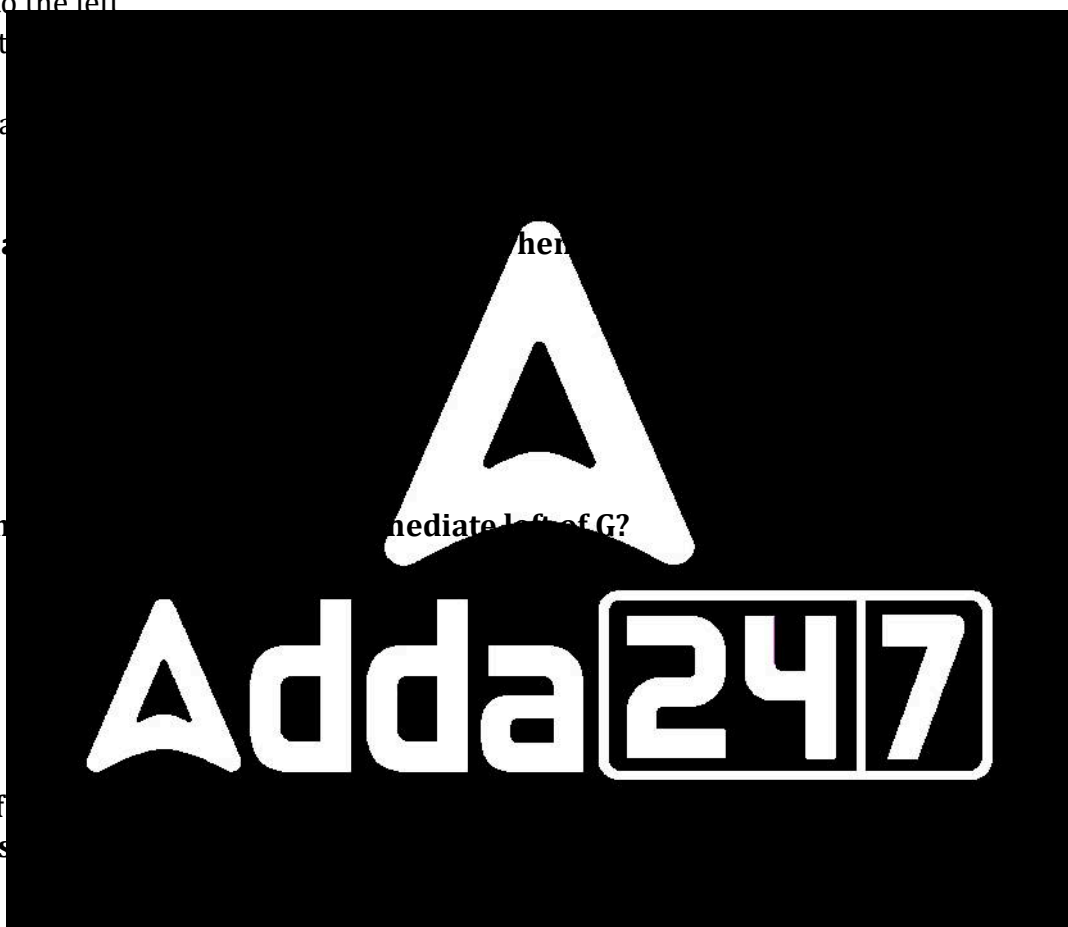
- (a) A
- (b) F
- (c) B
- (d) H
- (e) C

Q4. Four of the following is/are correct, how many among the

- (a) E
- (b) B
- (c) G
- (d) D
- (e) F

Q5. If all the persons are asked to sit in alphabetical order, starting from A, in clockwise direction, then how many persons will remain same on their position (excluding A)?

- (a) Two
- (b) None
- (c) Three
- (d) One
- (e) Four



Directions (6-10): Read the given information carefully and answer the related question:
In a certain code language:

“Apple farmers supply fruits” is coded as ‘kl zu rt mw’

“Fresh mango supply today” is coded as ‘rt ds pq ne’

“Farmers sell apple today” is coded as ‘zu kl ne tx’

“Mango fruits taste sweet” is coded as ‘ds mw jy ab’

Q6. What is the code for ‘sell’?

- (a) tx
- (b) kl
- (c) ab
- (d) zu
- (e) ne

Q7. What w

- (a) mw ab
- (b) ds tx
- (c) mw rt
- (d) jy rt
- (e) ne tx

Q8. Which c

- (a) Sell
- (b) Today
- (c) Farmers
- (d) Apple
- (e) Can't be determined

Q9. If ‘sweet

- (a) st
- (b) mw
- (c) ds
- (d) ab
- (e) Can't be determined

Q10. What may be the code for ‘mango juice today’?

- (a) ds jy ne
- (b) ds op ne
- (c) rt op ne
- (d) ds op pq
- (e) mw tx ab



Directions (11-13): In the question below, relation between some elements is shown in the statements, followed by two conclusions. Read it carefully and choose which conclusion is true as per the statement.

- (a) If only conclusion I is true
- (b) If only conclusion II is true
- (c) If either conclusion I or II is true
- (d) If both conclusion I and II are true
- (e) If neither conclusion I nor II is true

Q11. Statements: $K > R \geq T = W < J \leq B = F$

Conclusions:

- I. $R < J$
- II. $T \geq F$

Q12. Statement

Conclusion

- I. $K < Y$
- II. $Z > R$

Q13. Statement

Conclusion

- I. $L < N$
- II. $D \geq H$

Q14. How many

them as they have been arranged in the following direction) (Note: The boxes are arranged in a stack, but not in the same order as given.)

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None

Directions (15-19): Read the given information carefully and answer the related question:

Seven boxes A, B, C, D, E, F and G are placed one above the other in a stack, but not in same order as given.

Four boxes are placed between box G and box B. Box D is placed two boxes above box B. Box A is placed immediately below box D. Box C is placed two boxes above box F.

Q15. Which box is placed third from the topmost position?

- (a) Box F
- (b) Box C
- (c) Box D
- (d) Box E
- (e) Box A

Q16. How many boxes are placed below box D?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) Five

Q17. If all the boxes are rearranged in alphabetical order from bottom to top, then how many boxes will remain same at their position?

- (a) One
- (b) Four
- (c) Three
- (d) Two
- (e) None

Q18. If box 'A' is related to box 'D' in the same way as box 'B' is related to box 'F', which box is related to box 'C'?

- (a) Box C
- (b) Box D
- (c) Box A
- (d) Box F
- (e) Box E

Q19. Which box is placed at the bottom?

- (a) Box A
- (b) Box G
- (c) Box B
- (d) Box D
- (e) Box F

Q20. Find the odd one out.

- (a) PSV
- (b) EHK
- (c) ILN
- (d) MPS
- (e) RUX



Directions (21-22): Study the following information carefully and answer the questions given below:

Point K is 11m north of point B, which is 12m east of point O. Point C is 13m south of point B. Point H is 24m south of point D. Point C is 11m west of point H and 5m east of point S. Point D is 2m east of Point A.

Q21. Four of the following five are alike in a certain way and thus form a group. Find the one pair of points which does NOT belong to the group?

- (a) K-O
- (b) B-S
- (c) D-C
- (d) K-H
- (e) D-O

Q22. In which direction is point K with respect to point A?

- (a) North-west
- (b) South-east
- (c) West
- (d) North-east
- (e) East

Directions
conclusions
known fact

- (a) Only con
- (b) Only con
- (c) Either co
- (d) Neither c
- (e) Both con

Q23. Staten

Some play a
Only a few g
Conclusion
I. Some gam
II. All play is

Q24. Staten

All apple are
Some fruits are not banana

Conclusions:

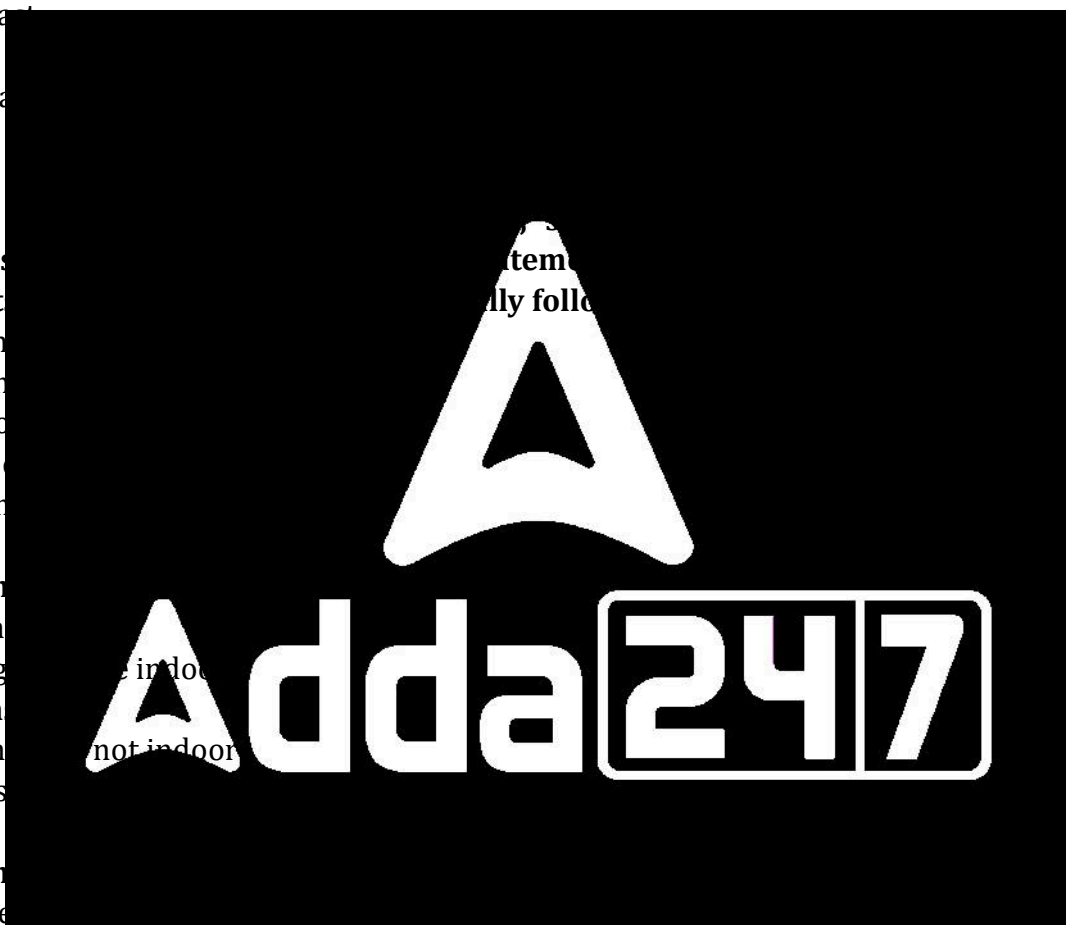
- I. Some banana is definitely not apples
- II. No fruits are banana

Q25. Statements:

No pattern is visual
Only a few cluster is visual

Conclusions:

- I. Some pattern is cluster
- II. No pattern is cluster



Q26. Statements:

Only a few river is blue

Some blue is ocean

No ocean is pond

Conclusions:

I. Some blue is not pond

II. No river being pond is a possibility

Directions (27-29): Read the given information carefully and answer the related questions:

Six pencils A, B, C, D, E and F are of different length (in cm). Two pencils are longer than B. One pencil is in between D and E. One pencil is longer than D. The length of pencil A is 10 cm. Pencil C is shorter than D. The length of pencil F is 12 cm.

Q27. Which

- (a) C
- (b) F
- (c) E
- (d) D
- (e) A

Q28. How many

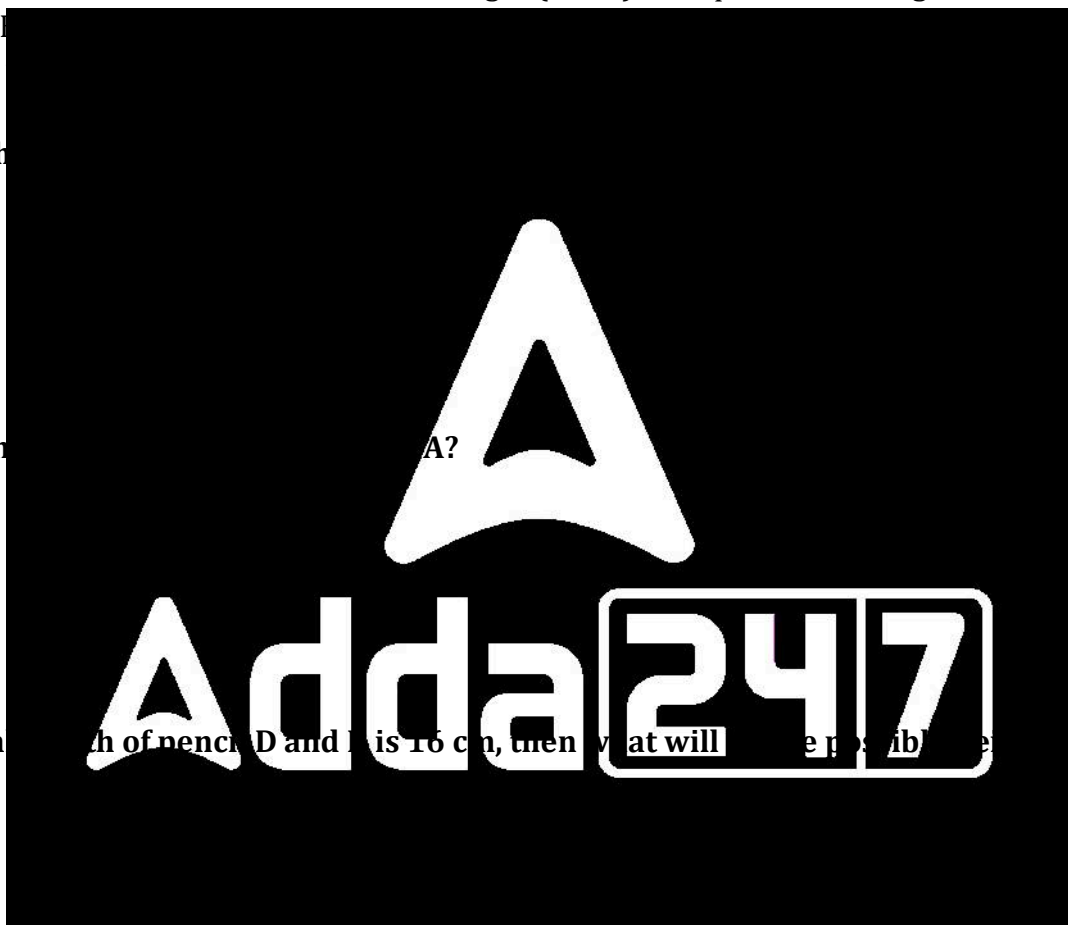
- (a) Two
- (b) Three
- (c) Four
- (d) Five
- (e) None

Q29. If total length of pencil D and E is 16 cm, then what will be the possible length of pencil F?

- (a) 11 cm
- (b) 10 cm
- (c) 9 cm
- (d) 8 cm
- (e) None of the above

Q30. If it is possible to make a four-letter meaningful word with the 2nd, 4th, 7th and 8th letter (from left) of the word 'ALTERNATES', which would be the second letter of the word from left? If more than one such meaningful word can be formed then give 'Z' as your answer. If no such meaningful word can be formed, give 'Y' as your answer.

- (a) E
- (b) T
- (c) L
- (d) Z
- (e) Y



Directions (31-35): Read the given word-series carefully and answer the related question:

WIN KEY JAM LOG CAT

Q31. If all the words are arranged in dictionary order from left, then which word will become 3rd from the right end?

- (a) KEY
- (b) LOG
- (c) CAT
- (d) WIN
- (e) JAM

Q32. If 3rd letter of each word is taken, then how many words will have more than one letter?

- (a) None
- (b) One
- (c) Three
- (d) Four
- (e) Two

Q33. If letters of each word are arranged in dictionary order, then how many words will be formed?

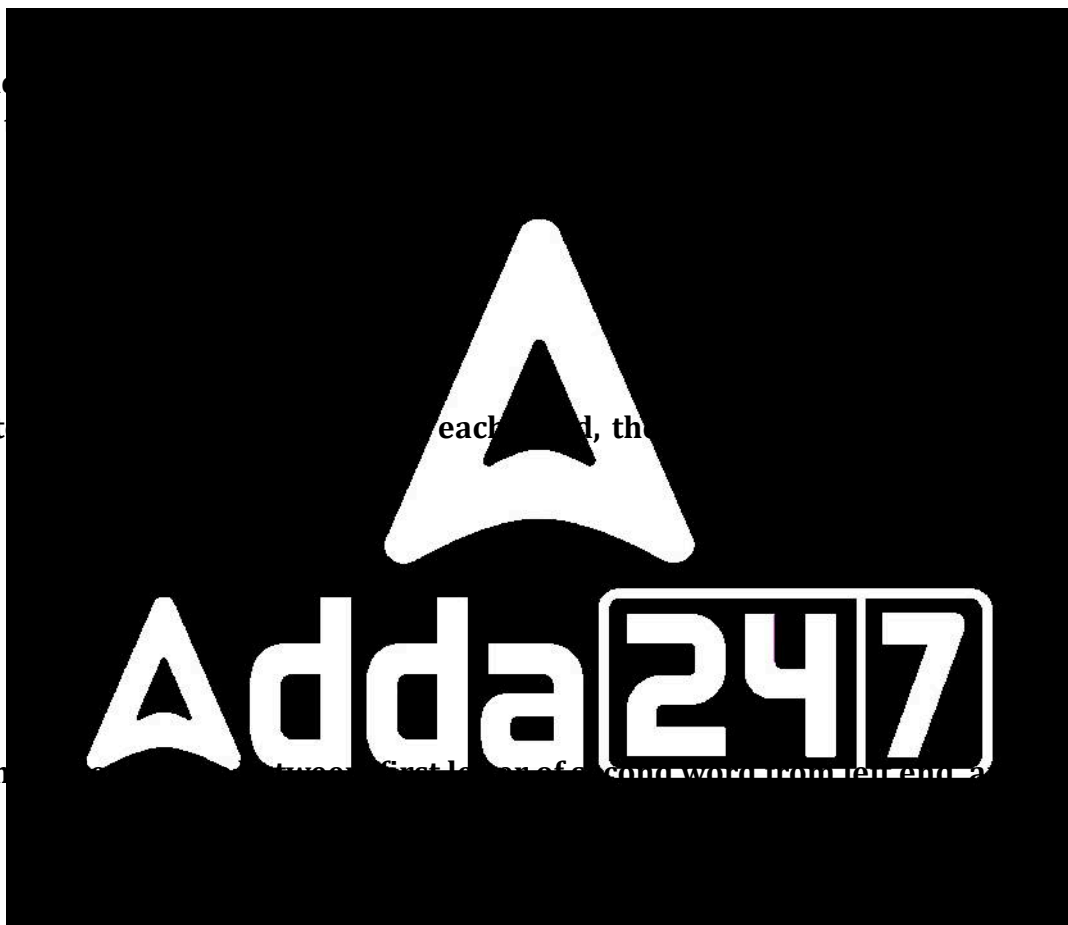
- (a) Two
- (b) None
- (c) One
- (d) Four
- (e) Three

Q34. How many words will have the third letter of each word as 'A'?

- (a) Seven
- (b) One
- (c) Two
- (d) Ten
- (e) Three

Q35. If all letters are arranged in dictionary order from left within each word, then how many words will start with vowel?

- (a) One
- (b) Three
- (c) Four
- (d) Five
- (e) Two



Directions (36-40): Read the given information carefully and answer the related questions:

Six persons B, C, D, E, F and G were born (but not in same order as given) on different days of a week starting from Monday to Saturday.

B was born after Thursday. Three persons were born between B and F. Number of persons born before F is same as the number of persons born after C. One person was born between D and E. G was born immediately before E.

Q36. G was born on which of the following day?

- (a) Friday
- (b) Wednesday
- (c) Monday
- (d) Tuesday
- (e) Thursday

Q37. Who among the following was born on Saturday?

- (a) F
- (b) D
- (c) E
- (d) B
- (e) C

Q38. Which of the following statements is correct?

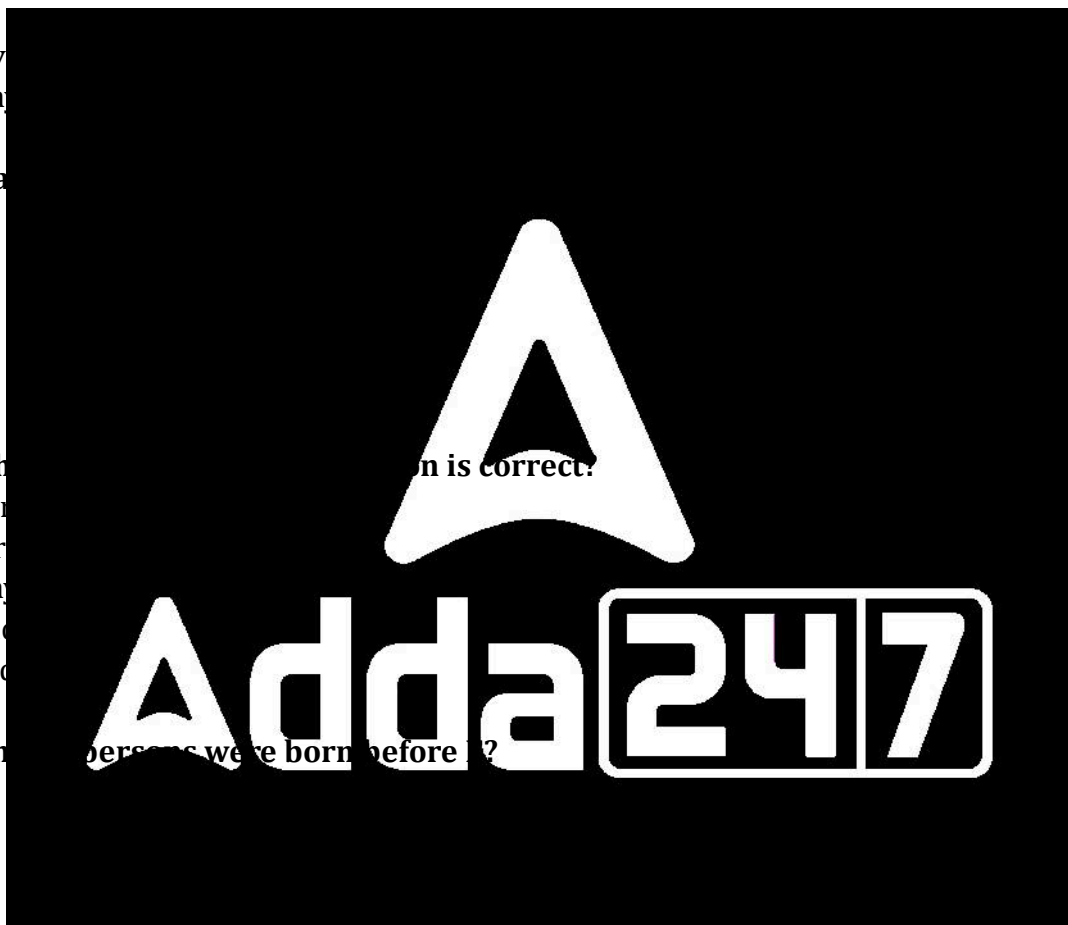
- (a) B – Saturday
- (b) D – Thursday
- (c) C – Friday
- (d) F – Monday
- (e) G – Tuesday

Q39. How many persons were born before F?

- (a) Four
- (b) None
- (c) Three
- (d) One
- (e) Two

Q40. Which of the following statement is correct?

- I. One person was born between F and G
 - II. E was born on Thursday
 - III. D was born before F
- (a) Only II
 - (b) Only I and II
 - (c) Only I and III
 - (d) Only I
 - (e) Only III



Q41. A mixture contains milk and water in the ratio 2 : 1. The total quantity of the mixture is 30 liters. If x liters of water are added to the mixture, the ratio of milk to water becomes 2 : 3. Find the value of x.

- (a) 10
- (b) 20
- (c) 30
- (d) 15
- (e) 5

Q42. P and Q started a business by investing Rs. 8,000 and Rs. 6,000 respectively. After x months, Q withdrew his share and left. P continued the business until the end of the year. The share of P in the profit of Rs. 18,000 was Rs. 9,000. Find the value of x.

- (a) 8
- (b) 9
- (c) 6
- (d) 4
- (e) 5

Q43. The present ages of three persons are in the ratio 4 : 5 : 6. Four years ago, the ratio of their ages was 1 : 2 : 3. Find the age of the youngest person.

- (a) 20
- (b) 25
- (c) 32
- (d) 24
- (e) 28

Q44. The principal amount is Rs. 8,000, and the rate of interest is 10% per annum. Find the simple interest earned after 4 years.

- (a) 4.5
- (b) 4
- (c) 2
- (d) 2.5
- (e) 3

Q45. The downstream speed of a boat is 18 km/h, and the speed of the stream is 3 km/h. Find the time taken (in hours) by the boat to cover a distance of 30 km upstream.

- (a) 3.5
- (b) 2
- (c) 2.5
- (d) 4.5
- (e) 4

Q46. A train of length 180 meters crosses a pole in 9 seconds. Find the time taken (in seconds) by the train to cross a bridge of length 270 meters.

- (a) 18.5
- (b) 20
- (c) 22.5
- (d) 14.5
- (e) 15.5

Q47. A man spends 25% of his monthly salary on rent. Out of the remaining amount, he spends 15% on clothes, and after that, he spends 20% on travelling. He saves the rest. If his savings amount to Rs. 12000, find his monthly salary.

- (a) 17500
- (b) 10000
- (c) 11500
- (d) 14000
- (e) 12000

Q48. A man saves a certain percentage of his monthly salary and deposits it in a bank. After 3 years, he has saved an amount of Rs. 1,80,000. Find his monthly salary.

- (a) 7500
- (b) 8000
- (c) 8500
- (d) 9000
- (e) 45000

Q49. A shopkeeper marks up the price of an article by 40%. He then offers a 10% discount on the marked price. If he earns a profit of Rs. 104 on the article, find the cost price of the article.

- (a) 100
- (b) 200
- (c) 400
- (d) 600
- (e) 500

Q50. A and B together can complete a piece of work in 12 days, and A alone can complete it in 20 days. Find the time taken (in days) by B alone to complete 60% of the work.

- (a) 15
- (b) 14
- (c) 18
- (d) 16
- (e) 20

Directions (51-55): Find out the wrong number.

Q51. 34, 15, 15, 22.5, 45, 112.5, 337.5

- (a) 34
- (b) 15
- (c) 22.5
- (d) 45
- (e) 112.5

Q52. 56, 60, 66, 74, 86, 100, 118

- (a) 56
- (b) 60
- (c) 71
- (d) 91
- (e) 211

Q53. 105, 114, 122, 131, 141, 152, 164

- (a) 105
- (b) 114
- (c) 122
- (d) 111
- (e) 117

Q54. 201, 206, 190, 215, 179, 228

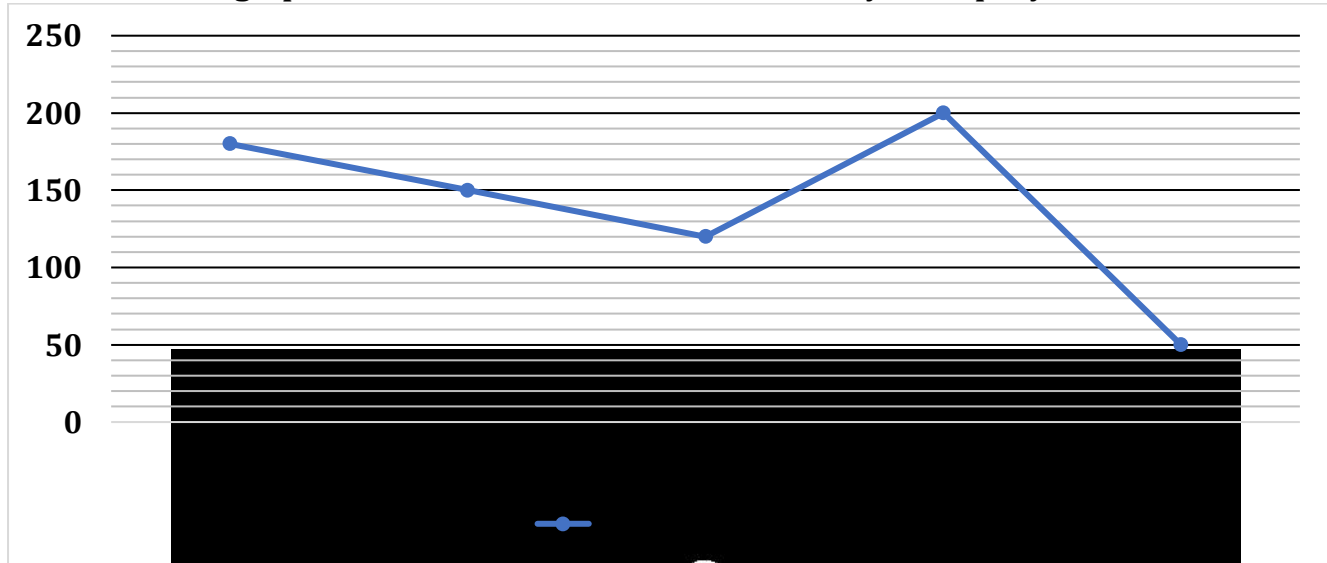
- (a) 228
- (b) 215
- (c) 199
- (d) 201
- (e) 190

Q55. 6, 12, 28, 59, 120, 241

- (a) 120
- (b) 241
- (c) 12
- (d) 6
- (e) 28



Directions (56-60): Read the following line graph carefully and answer the questions given below. The line graph shows the total number of cars sold by a company in five different months.



Q56. Find the

- (a) 110
- (b) 150
- (c) 130
- (d) 120
- (e) 140

Q57. The number of cars sold in April is what percent of the cars sold in January?

- (a) 75%
- (b) 60%
- (c) 25%
- (d) 55%
- (e) 87.5%

Q58. Find the

- (a) 60
- (b) 90
- (c) 70
- (d) 50
- (e) 100

Q59. What is the ratio of total cars sold in January and March together to the cars sold in February and May together?

- (a) 3:1
- (b) 2:3
- (c) 3:2
- (d) 1:3
- (e) 4:3

Q60. Find the sum of the total cars sold in May and February together.

- (a) 300
- (b) 330
- (c) 200
- (d) 380
- (e) 370

Directions (61-65): Read the following table carefully and answer the questions given below. The table shows the total number of blue balls and total number of green balls in five different bags.

Bags	Blue balls	Green balls
A	840	150
B	720	180
C	600	210
D	480	240
E	360	270

Q61. Find the difference between the total number of blue balls in Bag A and Bag B together and the total number of green balls in Bag C and Bag D together.

- (a) 1870
- (b) 1630
- (c) 1240
- (d) 1390
- (e) 1550

Q62. What is the ratio of the total number of blue balls in Bag A and Bag B together to the total number of green balls in Bag C and Bag D together?

- (a) 334
- (b) 338
- (c) 342
- (d) 346
- (e) 362

Q63. The number of green balls in Bag A is what percent of the total number of balls in Bag A (approx.)?

- (a) 20%
- (b) 35%
- (c) 45%
- (d) 40%
- (e) 25%

Q64. Find the difference between the total number of green balls in Bag D and Bag A together and the total number of blue balls in Bag C and E together.

- (a) 60
- (b) 20
- (c) 30
- (d) 50
- (e) 40

Q65. If the total number of pink balls in bag C is 20% less than the total number of green balls in bag D, then find the total number of pink balls in bag C.

- (a) 480
- (b) 520
- (c) 500
- (d) 570
- (e) 410

Directions (66–80): What should come in place of question mark (?) in the following questions?

Q66. $4769 - 68267 - 8125 - 9612 = ?$

- (a) 35
- (b) 48
- (c) 43
- (d) 38
- (e) 47

Q67. $1217 + ? = 1217$

- (a) 210
- (b) 310
- (c) 360
- (d) 270
- (e) 410

Q68. $0.06 \times ? = 0.06$

- (a) 8.2
- (b) 6.4
- (c) 2.6
- (d) 3.8
- (e) 2.8

Q69. $8.41 + ? = 8.41$

- (a) 17
- (b) 14.9
- (c) 13.9
- (d) 16
- (e) 14.7

Q70. $616 + 472 - 811 + 317 = ? + 576$

- (a) 28
- (b) 16
- (c) 24
- (d) 18
- (e) 14



Q71. $12.5 \times 80 + 37.5 \times 16 - 6.25 \times 112 = ?$

- (a) 1000
- (b) 900
- (c) 2300
- (d) 600
- (e) 1300

Q72. $\sqrt{3025} - \sqrt{2116} = ?^2$

- (a) 81
- (b) 9
- (c) 3
- (d) 27
- (e) 729

Q73. $\sqrt{?} + \sqrt{?} = ?$

- (a) 400
- (b) 441
- (c) 361
- (d) 484
- (e) 289

Q74. $1674 \div ? = 11$

- (a) 26
- (b) 23
- (c) 24
- (d) 35
- (e) 18

Q75. $(1.2)^2 = ?$

- (a) 4.99
- (b) 5.69
- (c) 3.69
- (d) 6.79
- (e) 4.49

Q76. $\sqrt{484} \div \frac{11^2}{8} + ? = \frac{38}{11}$

- (a) 22
- (b) 2
- (c) 1
- (d) 11
- (e) 4



Q77. $\frac{(12+44)}{8} \times 28 = ?^2$

- (a) 13
- (b) 16
- (c) 17
- (d) 14
- (e) 19

Q78. $\frac{32}{35} \div \frac{1}{5} \times \frac{7}{8} \div \frac{2}{35} = ?$

- (a) 60
- (b) 80
- (c) 75
- (d) 90
- (e) 70

Q79. $\frac{15}{100} \times \frac{2}{7}$

- (a) 5800
- (b) 6300
- (c) 6100
- (d) 5600
- (e) 5300

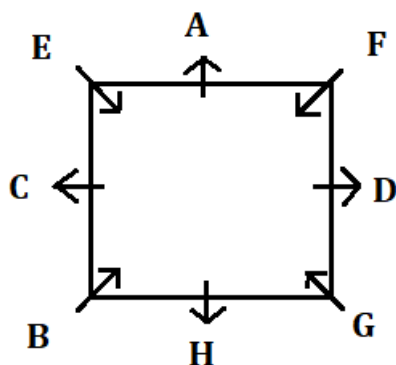
Q80. $23 \div 4$

- (a) 148
- (b) 194
- (c) 176
- (d) 154
- (e) 184



Solutions

Solutions (1-5):



S1. Ans.(e)

S2. Ans.(c)

S3. Ans.(d)

S4. Ans.(d)

S5. Ans.(b)

Solutions (6-10):

Words	Codes
Mango	ds
Fruits	
Farmers/A	
Supply	
Today	
Fresh	
Sell	
Taste/ Swe	

S6. Ans.(a)

S7. Ans.(c)

S8. Ans.(e)

S9. Ans.(d)

S10. Ans.(b)

S11. Ans.(e)

Sol. I. $R < J$ (C)

II. $T \geq F$ (False)

S12. Ans.(a)

Sol. I. $K < Y$ (C)

II. $Z > R$ (False)

S13. Ans.(d)

Sol. I. $L < N$ (True)

II. $D \geq H$ (True)

S14. Ans.(a)

Sol.

M I S T A K E



Solutions (15-19):

Boxes
C
G
F
E
D
A
B

S15. Ans.(a)

S16. Ans.(b)

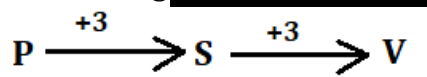
S17. Ans.(e)

S18. Ans.(c)

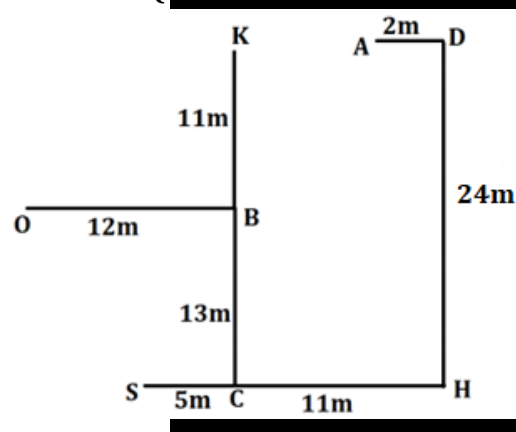
S19. Ans.(d)

S20. Ans.(c)

Sol. The log



Solutions (21-23):



S21. Ans.(d)

Sol. Except K-H, first point is to the north-east of the second point.

S22. Ans.(c)

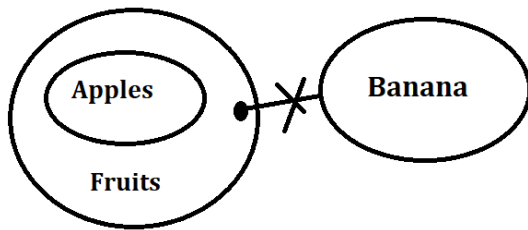
S23. Ans.(a)

Sol.



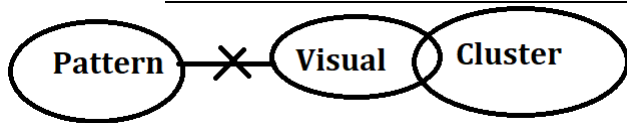
S24. Ans.(d)

Sol.



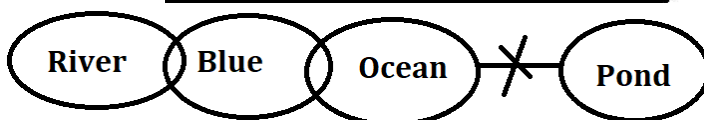
S25. Ans.(c)

Sol.



S26. Ans.(e)

Sol.



Solutions (2)

D > F > B (7)

S27. Ans.(a)

S28. Ans.(b)

S29. Ans.(d)

S30. Ans.(d)

Sol. LATE, T

S31. Ans.(a)

S32. Ans.(e)

S33. Ans.(c)

S34. Ans.(b)

S35. Ans.(c)

Solutions (36-40):

Days	Persons
Monday	F
Tuesday	D
Wednesday	G
Thursday	E
Friday	B
Saturday	C

S36. Ans.(b)

S37. Ans.(e)

S38. Ans.(d)

S39. Ans.(c)

S40. Ans.(b)

S41. Ans.(b)

Sol. Information Given in the Question:

Initial ratio of milk to water = 2 : 1

Total quantity of mixture = 30 liters

Water added = 10

New ratio of

Detailed Ex

$$\text{Milk} = \frac{2}{3} \times 30$$

$$\text{Water} = \frac{1}{3} \times 30$$

Water added = 10

So, new water

According to

$$\frac{20}{10+x} = \frac{2}{3}$$

$$3 \times 20 = 2 \times (10+x)$$

$$60 - 20 = 2x$$

$$40 = 2x$$

$$x = 20$$

S42. Ans.(a)

Sol. Information Given in the Question:

P's investment

Q's investment

Total profit = Rs. 8,000

Q's profit share = Rs. 2,000

P's profit share = Rs. 6,000 - 2,000 = Rs. 4,000

Concept/Formula Used in the Question:

Profit is distributed in the ratio of **investment × time**

Detailed Explanation:

P's investment for 12 months = $8000 \times 12 = 96000$

Q's investment for x months = $6000 \times x = 6000x$

Profit ratio = P : Q = 96000 : 6000x

Given:

Q's share = 2000 and total = 6000

So ratio = 4000 : 2000 = 2 : 1

Now equate:

$$\frac{96000}{6000x} = \frac{2}{1}$$

$$96000 = 12000x$$

$$x = \frac{96000}{12000}$$

$$x = 8$$

S43. Ans.(e)

Sol. Information Given in the Question:

Present age ratio of A : B = 4 : 3

3 years ago, their ratio was 7 : 5

Find A's age

Detailed Explanation:

Let present

$$A = 4x$$

$$B = 3x$$

Three years

$$A's \text{ age} = 4x$$

$$B's \text{ age} = 3x$$

According to

$$\frac{4x-3}{3x-3} = \frac{7}{5}$$

$$5(4x - 3) =$$

$$20x - 15 =$$

$$21x - 20x =$$

$$\text{So, } A's \text{ present age} = 4x =$$

$$A's \text{ age after } 3 \text{ years} = 24 + 4 = 28 \text{ years}$$

S44. Ans.(d)

Sol. Information:

Principal (P)

Rate of interest

Simple Interest (SI) = Rs. 2000

Need to find Time (T) in years

Concept/Formula Used in the Question:

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

$$T = \frac{SI \times 100}{P \times R}$$

Detailed Explanation:

Given:

$$SI = 2000$$

$$P = 8000$$

$$R = 10\%$$

Let time period be T

Substitute in formula:

$$T = \frac{2000 \times 100}{8000 \times 10}$$

$$T = \frac{200000}{80000}$$

$$T = 2.5 \text{ years}$$

S45. Ans.(c)

Sol. Information Given in the Question:

Downstream speed = 18 km/h

Speed of the stream = 3 km/h

Distance to cover upstream = 30 km

Concept/Formula:

Speed of boat

Upstream speed

Time = Distance

Detailed Explanation:

Speed of boat

Upstream speed

Time taken to

$$= \frac{30}{12} = 2.5 \text{ h}$$

S46. Ans.(c)

Sol. Information:

Length of train

Time to cross

Length of bridge = 180 m

Concept/Formula:

Speed = Distance

When crossing a pole, Distance = length of train

When crossing a bridge, Distance = length of train + length of bridge

Time = Total Distance

Detailed Explanation:

Speed of train = $\frac{180}{9} = 20 \text{ m/s}$

Total distance to cross bridge = 180 + 270 = 450 meters

Time = $\frac{450}{20} = 22.5 \text{ seconds}$

S47. Ans.(e)

Sol. Given:

He spends money in the following sequence:

Rent = 25% of salary

Clothes = 15% of the remaining

Travelling = 20% of the remaining

Saves = Rs. 6,120

Detailed Explanation:

Let monthly salary be Rs x .

After rent $\rightarrow$ remaining = 75% of $x = 0.75x$

After clothes $\rightarrow$ spends 15% of remaining, so keeps 85% of that:

Remaining = $0.75x \times 0.85 = 0.6375x$

After travelling $\rightarrow$ spends 20% of remaining, so keeps 80% of that:

Remaining (savings) = $0.6375x \times 0.80 = 0.51x$

Savings = $0.51x = 6,120$

$$x = \frac{6120}{0.51} = 12,000$$

S48. Ans.(a)

Sol. Information:

Time = 2 years

Rate of interest = 20%

Amount after 2 years = 10,800

Principal (P) = ?

Concept/Formula:

Compound Interest

$$A = P \times (1 + \frac{R}{100})^T$$

Where:

A = Final Amount

P = Principal

R = Rate of Interest

T = Time in years

Detailed Explanation:

We are given:

$$A = 10,800, R = 20\%, T = 2 \text{ years}$$

Using the compound interest formula:

$$10,800 = P \times (1 + \frac{20}{100})^2$$

$$10800 = P \times 1.44$$

$$10800 = P \times 1.44$$

Now,

$$P = \frac{10,800}{1.44} = 7500$$

S49. Ans.(c)

Sol. Information Given in the Question:

Marked up by 40% over Cost Price

Discount given = 10%

Profit earned = Rs. 104

Cost Price (CP) = ?

Concept/Formula Used in the Question:

Marked Price (MP) = CP $\times$ (1 + Markup%)

Selling Price (SP) = MP $\times$ (1 - Discount%)

Profit = SP - CP

Detailed Explanation:

Let the cost price be x.

Then,

Marked Price = $x \times 1.40 = 1.4x$

Selling Price = $1.4x \times 0.90 = 1.26x$

Profit = SP - CP = $1.26x - x = 0.26x$

Now,

$0.26x = 104$

$x = 104 / 0.26$

S50. Ans.(c)

Sol. Inform

A and B toge

A alone com

Find time ta

Concept/For

Use LCM me

Work per da

Time = Wor

Required: T

Detailed Ex

Let the total

Efficiency of

Efficiency of

Efficiency of

Now, 60% o

Time taken

S51. Ans.(a)

Sol.

The pattern of the series:

30,	15,	15,	22.5,	45,	112.5,	337.5
$\times 0.5$	$\times 1$	$\times 1.5$	$\times 2$	$\times 2.5$	$\times 3$	

S52. Ans.(b)

Sol. The pattern of the series:

56,	61,	71,	91,	131,	211,	371
5	10	20	40	80	160	

S53. Ans.(c)

Sol. The pattern of the series:

105,	108,	111,	114,	117,	120,	123
3	3	3	3	3	3	

S54. Ans.(c)

Sol. The pattern of the series:

201,	197,	206,	190,	215,	179,	228
-4	+9	-16	+25	-36	+49	

S55. Ans.(d)

Sol. The pattern of the series:

3.5,	12,	28,	59,	120,	241
$\times 2 + 5$	$\times 2 + 4$	$\times 2 + 3$	$\times 2 + 2$	$\times 2 + 1$	

S56. Ans.(e)

Sol. Required sum =

140

S57. Ans.(a)

Sol. Required sum =

5%

S58. Ans.(a)

Sol. Required sum =

0

S59. Ans.(c)

Sol. Required ratio =

$(180 + 120) : (180 + 50)$

$= 300 : 200$

$= 3 : 2$

S60. Ans.(c)

Sol. Required sum =

$50 + 150 = 200$

S61. Ans.(a)

Sol. Required answer =

$210 + 520 + 480 + 360 + 300 = 1870$

S62. Ans.(a)

Sol. Required answer =

$\frac{170+330+260+650+260}{5} = 334$

S63. Ans.(d)

Sol. Required percentage =

$\frac{210}{520} \times 100 = 40.3\% = 40\% \text{ (approx)}$

S64. Ans.(e)

Sol. Required difference = $(650 + 170) - (480 + 300)$
 $= 820 - 780$
 $= 40$

S65. Ans.(b)

Sol. Required answer = $650 \times \frac{80}{100} = 520$

S66. Ans.(d)

Sol. $4769 - 4731 = ?$
 $? = 38$

S67. Ans.(b)

Sol. $? = 1217$
 $= 2877 - 25$
 $? = 310$

S68. Ans.(e)

Sol. $? = \frac{0.06 \times 1.2 \times 10^6}{1.2 \times 10^6}$
 $? = 2.8$

S69. Ans.(d)

Sol. $? = 15.45$
 $? = 16$

S70. Ans.(d)

Sol. $? = 1405$
 $? = 18$

S71. Ans.(b)

Sol. $\frac{100}{8} \times 80$
 $? = 1000 +$
 $? = 900$

S72. Ans.(c)

Sol. $55 - 46 = ?^2$
 $?^2 = 9$
 $? = 3$

S73. Ans.(b)

Sol. $\sqrt{?} + 18 + 19 = \frac{290}{5}$
 $\sqrt{?} = 58 - 37$
 $\sqrt{?} = 21$
 $? = 441$



S74. Ans.(c)

Sol. $1674 \times \frac{1}{27} \times 9 + 18 = ?^2$

$$62 \times 9 + 18 = ?^2$$

$$?^2 = 576$$

$$? = 24$$

S75. Ans.(e)

Sol. $? = 1.44 + 2.25 + 4.41 - 3.61$

$$? = 4.49$$

S76. Ans.(b)

Sol. $22 \times \frac{8}{121}$

$$? = \frac{38}{11} - \frac{16}{11}$$

$$? = \frac{22}{11} = 2$$

S77. Ans.(d)

Sol. $?^2 = \frac{56}{8}$

$$?^2 = 196$$

$$? = 14$$

S78. Ans.(e)

Sol. $\frac{32}{35} \times 5 \times$

$$? = 70$$

S79. Ans.(d)

Sol. $\frac{15}{100} \times \frac{20}{70}$

$$? = 240 \times \frac{7}{2}$$

$$? = 5600$$

S80. Ans.(e)

Sol. $? = 23 \times \frac{1}{48} \times 576 \times \frac{2}{3}$

$$? = 23 \times 4 \times 2$$

$$? = 184$$

