



RRB Group-D Reasoning Questions PDF

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Instructions

For the following questions answer them individually

Question 1

The present age of a mother and son are in the ratio 2:1 and the ratio of present ages of father and son is 3:1. If the sum of their ages is 84. Then find present age of son.

- A 18
- B 24
- C 36
- D 14

Answer: D

Explanation:

Ratio of present ages of mother and son is 2:1

Ratio of ages of father and son is 3:1

Ratio of father, mother and son is 3:2:1

Total → 6 units

6 units ---> 84 years

1 unit ---> 14 years

Therefore, Present age of son = 14 years

Question 2

The sum of present ages of a father and a son is 64 years. The age of son is $\frac{1}{3}$ rd of the age of his father. Then find the present age of father.

- A 32
- B 52
- C 48
- D 24

Answer: C

Explanation:

Let the present ages of father be $3x$ years.

Then the present age of son will be x years

Given $3x + x = 64$ years.

$\Rightarrow 4x = 64 \Rightarrow x = 16$ years

Present age of father = $16 \times 3 = 48$ years.

Question 3

Seven years ago, the sum of the ages of A and B was 18. 16 years from now, the ratio of their ages will be 19:13. What is the present age of B if he is younger than A?

- A 10 years
- B 12 years
- C 8 years
- D 7 years

Answer: A

Explanation:

We know that, $a - 7 + b - 7 = 18$

$$a + b = 32$$

Also since B is younger than A, $\frac{a+16}{b+16} = \frac{19}{13}$

$$13a + 13 \cdot 16 = 19b + 19 \cdot 16$$

$$13a - 19b = 96$$

Solving both the equation, we get,

$$a = 22 \text{ and } b = 10$$

Hence, option A is the right answer.

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Question 4

P was twice as old as Q before 8 years. After 8 years, the ratio of the ages of P and Q will be 4:3. What is the age of P now?

- A** 8 years
- B** 16 years
- C** 24 years
- D** 32 years

Answer: C

Explanation:

Let the age of P be 'p' and Q be 'q'.

$$(p-8)/(q-8) = 2$$

$$\Rightarrow p - 8 = 2q - 16$$

$$2q - p = 8 \text{ -----(1)}$$

After 8 years, the ratio of the ages will be 4:3.

$$(p+8)/(q+8) = 4/3$$

$$3p + 24 = 4q + 32$$

$$3p - 4q = 8 \text{ -----(2)}$$

Solving (1) and (2), we get,

$$p = 24 \text{ years and } q = 16 \text{ years.}$$

Therefore, option C is the right answer.

Question 5

Two years from now, the ages of Ram and Sam will be in the ratio 5 : 7. Three years ago the ratio of their ages was 5 : 8. Find the sum of their present ages.

- A** 32
- B** 45
- C** 36
- D** 39

Answer: A

Explanation:

Let Ram's age be x and Sam's age be y.

Given,
 $(x + 2) * 7 = 5 * (y + 2)$
 $7x - 5y - 4 = 0 \dots i$

Also,
 $(x - 3) * 8 = 5 * (y - 3)$
 $8x - 5y - 9 = 0 \dots ii$

Subtracting both

$$x = 13$$

$$\text{and } y = 19$$

$$\text{Sum} = 19 + 13 = 32$$

Question 6

IF $12=13, 13=21, 14=41, 15=79, 16=?$

A 131

B 141

C 125

D 169

Answer: B

Explanation:

In this question each number is increasing by a large factor and so we have

$$12=12+1$$

$$13=13+8$$

$$14=14+27$$

$$15=15+64$$

$$16=16+125$$

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Question 7

IF $2=13, 3=17, 4=19, 5=19, 6=?$

A 19

B 15

C 13

D 17

Answer: D

Explanation:

Here the difference is big and so the number formed should be by some multiplication or addition, we can assume it to be

$$2*7-1=13$$

$$3*6-1=17$$

$$4*5-1=19$$

$$5*4-1=19$$

$$6*3-1=17$$

Question 8

By interchanging which two signs the equation will be correct?

$$19 + 36 \times 12 \div 4 - 26 = 5$$

- A + and -
- B \times and \div
- C \div and -
- D + and \times

Answer: B

Explanation:

Expression : $19 + 36 \times 12 \div 4 - 26 = 5$

(A) : + and -

$$\equiv 19 - 36 \times 12 \div 4 + 26 = 5$$

$$\text{L.H.S.} = 19 - (36 \times 3) + 26 = 19 - 108 + 26 = -63 \neq \text{R.H.S.}$$

(B) : \times and \div

$$\equiv 19 + 36 \div 12 \times 4 - 26 = 5$$

$$\text{L.H.S.} = 19 + (3 \times 4) - 26 = 19 + 12 - 26 = 5 = \text{R.H.S.}$$

\Rightarrow Ans - (B)

Question 9

The following equation is incorrect. Which two signs should be interchanged to correct the equation?

$$16 \div 6 + 35 \times 9 - 15 = 31$$

- A + and \times
- B - and \div
- C \div and +
- D - and +

Answer: B

Explanation:

Expression : $16 \div 6 + 35 \times 9 - 15 = 31$

(A) : + and \times

$$\text{L.H.S.} = 16 \div 6 \times 35 + 9 - 15$$

$$= 93.33 - 6 = 87.33 \neq \text{R.H.S.}$$

(B) : - and \div

$$\text{L.H.S.} = 16 - 6 + 35 \times 9 \div 15$$

$$= 10 + (7 \times 3) = 31 = \text{R.H.S.}$$

\Rightarrow Ans - (B)

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Question 10

The following equation is incorrect. Which two signs should be interchanged to correct the equation?

$$18 + 12 \div 9 - 30 \times 16 = 10$$

A + and \times

B + and \div

C - and +

D \div and \times

Answer: A

Explanation:

Expression : $18 + 12 \div 9 - 30 \times 16 = 10$

(A) : + and \times

$$\equiv 18 \times 12 \div 9 - 30 + 16 = 10$$

$$\text{L.H.S.} = \left(\frac{18}{9} \times 12 \right) - 14$$

$$= (2 \times 12) - 14 = 10 = \text{R.H.S.}$$

\Rightarrow Ans - (A)

Instructions

In following alphabet series , one term missing as shown by question mark (?). Choose missing term from options

Question 11

CA, BD, EC, DF, ?

A FE

B GF

C GD

D GE

Answer: D

Explanation:

$$C+1 = D$$

$$A+1 = B \rightarrow DB$$

Reversing DB \rightarrow BD

Next term:

$$B+1 = C$$

$$D+1 = E \rightarrow CE$$

Reversing CE \rightarrow EC

Next term:

$$E+1 = F$$

$$C+1 = D \rightarrow FD$$

Reversing FD \rightarrow DF

Next term:

$$D+1 = E$$

$$F+1 = G \rightarrow EG$$

Reversing EG \rightarrow GE

Instructions

In following alphabet series , one term missing as shown by question mark (?). Choose missing term from options

Question 12

GK, IM, KO, MQ, ?

- A OS
- B PQ
- C OR
- D PR

Answer: A

Explanation:

$$G+2 = I$$

$$K+2 = M \rightarrow IM$$

Next term:

$$I+2 = K$$

$$M+2 = O \rightarrow KO$$

Similarly, Required term would be

$$M+2 = O$$

$$Q+2 = S$$

Hence, Missing term $\rightarrow OS$

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Instructions

For the following questions answer them individually

Question 13

A series is given, with one number missing. Choose the correct alternative from the given ones that will complete the series.

Tag, Fest, bleed, guilty, aerobic, ?

- A adopter
- B adrenaline
- C bloggers
- D animosity

Answer: C

Explanation:

Tag, Fest, bleed, guilty, aerobic, ?

All the words have 3, 4, 5, 6, 7 letters respectively.

Thus, the next term will be a 8 letter word i.e. bloggers.

Question 14

A series is given, with one number missing. Choose the correct alternative from the given ones that will complete the series.

Jam, Jerk, Pizza, muzzle, ?

- A syntax
- B pricey
- C Letter

D acidity

Answer: D

Explanation:

Jam, Jerk, Pizza, muzzle, ?

All the words have 3, 4, 5, 6 letters respectively.

Thus, the next term will be a 7 letter word i.e. acidity.

Question 15

In the given series below, certain trend is being followed in each term. Find the next term in the series which follows the same trend.

PPPPPPQQQRRRRSSSS,PPPPQQQRRRRSS,PPQQRRRRS,?

A PPQRRRR

B QQRRRR

C QRRRR

D QRRR

Answer: C

Explanation:

In this question P's are decreasing by 2, Q's are decreasing by 1, R's have no change, S's are decreasing by 1 and so by following the trend we get the required answer as QRRRR.

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Question 16

In the given series below, certain trend is being followed in each term. Find the next term in the series which follows the same trend.

AABCCDDDDD, ABBCCDDDDD,BBCCDDDDD, ?

A ABBBDDDDD

B BBBBDDDDDD

C BBBDDDDD

D BBBBCDDDD

Answer: B

Explanation:

In this series in each next term A's and C's are decreasing by 1, B's and D's will be increasing by 1 and so after the 3rd term we have BBBCDDDDD and so 4th term will be BBBBDDDDDD.

Question 17

In the given series below, certain trend is being followed in each term. Find the next term in the series which follows the same trend.

ABCD,HIJK,OPQR, ?

A VWXY

B UVWX

C WXYZ

D TUVW

Answer: A

Explanation:

In this series 4 alphabets are in order but the trend is that in each case next term is obtained by leaving 3 alphabets between them and so after ABCD next term starts with H by leaving E,F,G and so after OPQR we should leave S,T,U and start with VWXY.

Question 18

A is B's mother's only son. D is E's brother who in turn is the brother in law of A's mother. If D is married to F, who is the mother of B then how is B related to D?

A Sister

B Niece

C Daughter

D Cannot be determined

Answer: C

Explanation:

A is B's mother's only son. Hence, B must be the sister of A. F is B's mother and she is married to D. Hence B must be D's daughter as well. Thus, option C is the correct answer.

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Question 19

In a party, Kuldeep said to Deepika, 'Your only sister's daughter is my wife's sister'. How is Deepika related to Kuldeep's wife?

A Cousin

B Sister

C Aunt

D Niece

Answer: C

Explanation:

Deepika's sister's daughter is Kuldeep's wife's sister. Hence, Kuldeep's wife must be the daughter of Deepika's sister. Hence, Deepika must be her aunt. Hence, option D is the correct answer.

Question 20

Referring to the photograph of a girl, Sumit said ' This girl is the wife of grandson of my mother'. How is Sumit related to the girl in the photograph?

A Father in law

B Father

C Husband

D Cousin

Answer: A

Explanation:

Sumit's mother's grandson will be Sumit's son or his nephew. His son or nephew's wife will be his daughter in law. Hence, Sumit must be the father in law of the girl in the photograph. Thus, option A is the correct answer.

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