

Quantitative Aptitude

Wrong Number Series

Level-1

Q1 Find the wrong term

6, 12, 21, 32, 45, 60

- (A) 45 (B) 32
(C) 21 (D) 12
(E) 6

Q2 Find the wrong term

6, 7, 9, 13, 26, 37, 69

- (A) 9 (B) 37
(C) 69 (D) 26
(E) 7

Q3 Find the wrong term

29, 37, 21, 43, 13, 53, 5

- (A) 43 (B) 21
(C) 13 (D) 53
(E) 37

Q4 Find the wrong term

644, 328, 164, 84, 44, 24, 14

- (A) 644 (B) 44
(C) 84 (D) 164
(E) 328

Q5 Find the wrong term

7.5, 47.5, 87.5, 157.5, 247.5, 357.5, 487.5

- (A) 47.5 (B) 7.5
(C) 157.5 (D) 87.5
(E) 357.5

Q6 Find the wrong term

4, 5.1, 7.3, 10.6, 15, 20, 27.1

- (A) 27.1 (B) 20
(C) 7.3 (D) 4
(E) 5.1

Q7 Find the wrong term

4, 10, 40, 190, 940, 4680, 23440

- (A) None of these

(B) 940

(C) 10

(D) 23440

(E) 4680

Q8 Find the wrong term

38, 39, 43, 52, 70, 93, 129

- (A) 39 (B) 129
(C) 93 (D) 52
(E) 70

Q9 Find wrong term,

61, 82, 124, 187, 270, 376

- (A) 61 (B) 82
(C) 124 (D) 270
(E) 187

Q10 Find the wrong term

13, 16, 21, 27, 39, 52, 69

- (A) 16 (B) 52
(C) 27 (D) 39
(E) 21

Q11 Find wrong term,

289, 306, 340, 389, 459, 544

- (A) None of these (B) 306
(C) 389 (D) 459
(E) 289

Q12 Find the wrong term

141, 156, 147, 162, 153, 165, 159

- (A) 159 (B) 165
(C) 147 (D) 153
(E) 156

Q13 Find the wrong term

14, 19, 29, 40, 44, 51, 59, 82

- (A) 82 (B) 29
(C) 44 (D) 51



(E) 59

Q14 Find the wrong term in the series

11, 18, 29, 42, 59, 80, 101

(A) 80 (B) 59

(C) 29 (D) 18

(E) 42

Q15 Find the wrong term in the given series.

201 196 181 146 121 76 21

(A) 201 (B) 196

(C) 181 (D) 146

(E) 121

Q16 Find the wrong term

0.5, 2, 1, 4, 32, 512, 16384

(A) 512 (B) 32

(C) 4 (D) 2

(E) 1

Q17 Find the wrong term

16, 24, 37, 54, 81, 121.5

(A) 81 (B) 121.5

(C) 37

(D) 54

(E) 24

Q18 Find the wrong term in the following number series.

2, 3, 6, 15, 45, 156.5, 630

(A) 156.5 (B) 6

(C) 15 (D) 45

(E) 3

Q19 Find the wrong term

4, 5, 12, 38, 160, 805, 4836

(A) 4836 (B) 805

(C) 38 (D) 160

(E) 12

Q20 Find the wrong term in the following series.

14.2, 16.3, 12.1, 18.4, 10.6, 20.5

(A) 20.5

(B) 10.6

(C) 18.4

(D) 12.1

(E) None of these



Level-2

Q1 Find the wrong number in the given series.

80 , 42 , 24 , 13.5 , 8.75 , 6.375 , 5.1875

- (A) 42 (B) 6.375
(C) 24 (D) 13.5
(E) 8.75

Q2 Find the wrong term in the series

7 , 8 , 18 , 57 , 230 , 1165

- (A) 7 (B) 8
(C) 18 (D) 57
(E) 230

Q3 Find wrong term,

20 , 38 , 74 , 148 , 290 , 578

- (A) 148 (B) 38
(C) 74 (D) 290
(E) 578

Q4 Find the wrong term

3 , 7.5 , 15 , 37.5 , 76 , 167.5 , 375

- (A) 7.5 (B) 15
(C) 37 (D) 76
(E) 167.5

Q5 Find the wrong term in the series.

3 , 7 , 16 , 32 , 56 , 93 , 142

- (A) 142 (B) 7
(C) 32 (D) 16
(E) 56

Q6 Find the wrong term

251 , 252 , 254 , 227 , 243 , 118 , 154

- (A) 154 (B) 243
(C) 227 (D) 252
(E) 251

Q7 Find the wrong term

2 , 6 , 10 , 19 , 36 , 69 , 134

- (A) 10 (B) 2
(C) 6 (D) 69
(E) 134

Q8 Find the wrong term

2 , 3 , 8 , 31 , 154 , 924 , 6460

- (A) 31 (B) 8
(C) 154 (D) 6460
(E) 924

Q9 Find the wrong term

2 , 11 , 38 , 197 , 1172 , 8227 , 65806

- (A) None of these (B) 1172
(C) 197 (D) 38
(E) 11

Q10 Find the wrong term

1 , 3 , 9 , 31 , 128 , 651 , 3913

- (A) 128 (B) 3913
(C) 1 (D) 3
(E) 31

Q11 Find the wrong term in the given series

7 27 93 301 915 2775 8361

- (A) 93
(B) 301
(C) 915
(D) 2775
(E) All terms are correct

Q12 Find the wrong term

1331 , 2197 , 3375 , 4914 , 6859 , 9261 , 12167

- (A) 12167 (B) 2197
(C) 9261 (D) 6859
(E) 4914

Q13 Find the wrong term in the series

1 , 3 , 10 , 36 , 152 , 760 , 4632

- (A) 152 (B) 760
(C) 4632 (D) 36
(E) 3

Q14 Find the wrong term

2 , 9 , 28 , 65 , 126 , 216 , 344

- (A) 344 (B) 28
(C) 216 (D) 65
(E) 9



Q15 A series is 5, 5, 10, 65, 395, 3165. Find the odd one out.

If another series follows the same pattern and starts with the wrong term of the above series, then find the wrong term and 4th term of the series.

- (A) 65, 45 (B) 395, 40
(C) 10, 65 (D) 395, 80
(E) None of these

Q16 Direction: Study the data carefully and answer the following question.

A series is given below with the wrong term P in it?

168, 108, 48, 24, 8, 3

P is what percent of the number, which will come in place of P?

- (A) 60% (B) 96%
(C) 80% (D) 90%
(E) 70%

Q17 Direction: Study the data carefully and answer the following question.

A series is given below with the wrong term P.
3, 10, 34, 99, 301, 908

Find the difference between 50% and 80% of the number, which will come in place of P?

- (A) 28.8 (B) 88.8
(C) 9.6 (D) 270
(E) 96

Q18 Direction: Study the data carefully and answer the following question.

Two series (I) and (II) are given below, with wrong term P in series (I) and wrong term Q in series (II).

(I): 6, 20, 47, 83, 132, 196

(II): 11, 15, 20, 31, 45, 67

Find that P is what percent of Q?

- (A) 133.33% (B) 66.67%
(C) 44.44% (D) 29.85%
(E) 100%

Q19 Direction: Study the data carefully and answer the following question.

A series is given with one wrong term in it.

25, 35, 20, 40, 15, 55

If a new series is formed, whose 1st term is the wrong term of the given series and follows the same pattern as in the given series, then find that the 5th term of the new series will be equal to the which term of the given series?

- (A) 2nd term (B) 5th term
(C) None of these (D) 3rd term
(E) 4th term

Q20 Direction: Study the data carefully and answer the following question.

A series is given below with the wrong term P.
30, 55, 104, 250, 394, 683

Find that the number, which will come in place of P is what percent of P?

- (A) 98.5% (B) 86.67%
(C) 90% (D) 73.33%
(E) 80%



Level-3

Q1 Directions : Find out the wrong number in the following number series.

325, 546, 754, 936, 1078, 1170

- (A) 936 (B) 546
(C) 325 (D) 1078
(E) 1170

Q2 Direction: Study the data carefully and answer the following question.

A series is given below with the wrong term P in it.

4, 6, 15, 30, 84, 246

If a new series is formed whose 1st term is P, 2nd term is $(P + 1)$, 3rd term is $(2\text{nd term} + 3)$, 4th term is $(3\text{rd term} + 9)$, 5th term is $(4\text{th term} + 27)$ and so on, then find the 6th term of the new series?

- (A) 151 (B) 367
(C) 136 (D) 205
(E) 100

Q3 Find the wrong term

12, 6, 7.5, 12.75, 27.5, 71.25

- (A) None of these (B) 12
(C) 27.5 (D) 7.5
(E) 6

Q4 Directions : Find out the wrong number in the following number series.

115, 59, 33, 22, 18.5, 16, 20.875

- (A) 20.875 (B) 115
(C) 18.5 (D) 22
(E) 16

Directions (5-7) Read the following passage and answer the given questions.

Directions: Based on the following number series give the answer to the questions.

I. 1999, 1787, 1582, 1391, 1228, 1079

II. 212, 213, 230, 365, 608, 1939

III. 128, 192, 480, R, 7560

Q5 If P is the wrong term of series I, and Q is the wrong term of series II. Then what is

the ratio of P: Q?

- (A) 314: 115 (B) 614: 115
(C) 641: 151 (D) 214: 57
(E) 217: 29

Q6 If R is the correct term for Series III and Q is the wrong term for Series II, then what is the value of $Q + R$?

- (A) 3640 (B) 3208
(C) 2908 (D) 3840
(E) None of these

Q7 If another IVth series follows the pattern of IIIrd series and the first term of the IVth series is 24, then what is the sum of the third term of the series III and series IVth?

- (A) 990 (B) 360
(C) 480 (D) 570
(E) 530

Q8 Direction: Study the data carefully and answer the following question.

A series is given below with one wrong term in it.
53, 68, 98, 143, 201, 278

Find the difference between the wrong term of the series and the next term of the series?

- (A) 167 (B) 271
(C) 299 (D) 224
(E) 147

Q9 Direction: Study the data carefully and answer the following question.

A series is given below with wrong term P in it.
48, 44, 53, 35, 62, 26

If a new series is formed, whose 1st term is P and follows the same pattern as in the given series.

Find the 4th term of the new series?

- (A) 24 (B) 40
(C) 22 (D) 28
(E) 30

Q10 Direction: Study the data carefully and answer the following question.



A series is given below with the wrong term P in it.

12, 24, 44, 80, 108, 152

Find that the value of P is what percent of the number, which will come in place of P?

(A) 90%

(C) 80%

(E) 70%

(B) 72%

(D) 88%



Answer Key

Level-1

Q1 (E)
Q2 (D)
Q3 (A)
Q4 (E)
Q5 (A)
Q6 (B)
Q7 (E)
Q8 (E)
Q9 (D)
Q10 (C)

Q11 (C)
Q12 (B)
Q13 (D)
Q14 (A)
Q15 (D)
Q16 (D)
Q17 (C)
Q18 (A)
Q19 (C)
Q20 (B)



Answer Key

Level-2

Q1 (C)
Q2 (E)
Q3 (A)
Q4 (D)
Q5 (E)
Q6 (D)
Q7 (C)
Q8 (E)
Q9 (B)
Q10 (A)

Q11 (B)
Q12 (E)
Q13 (B)
Q14 (C)
Q15 (C)
Q16 (D)
Q17 (C)
Q18 (E)
Q19 (C)
Q20 (C)



Answer Key

Level-3

Q1 (D)

Q2 (C)

Q3 (E)

Q4 (E)

Q5 (B)

Q6 (C)

Q7 (D)

Q8 (A)

Q9 (A)

Q10 (A)



Hints & Solutions

Level-1

Q1 Text Solution:

Pattern of the series is as follows:

$$5(\neq 6) + 7 = 12$$

$$12 + 9 = 21$$

$$21 + 11 = 32$$

$$32 + 13 = 45$$

$$45 + 15 = 60$$

Wrong term = 6

Q2 Text Solution:

Pattern of the series is as follows:

Pattern Given

$$6 + 1 = 7$$

$$7 + 2 = 9$$

$$9 + 4 = 13$$

$$13 + 8 = 21 \neq 26$$

$$21 + 16 = 37$$

$$37 + 32 = 69$$

Wrong term = 26

Q3 Text Solution:

There are two series,

$$29 - 8 = 21$$

$$21 - 8 = 13$$

$$13 - 8 = 5$$

$$\text{And } 37 + 8 = 45 \neq 43$$

$$45 + 8 = 53$$

Wrong term = 43

Q4 Text Solution:

The pattern of the series is as follows:

$$644 - 320 = 324 \neq 328$$

$$324 - 160 = 164$$

$$164 - 80 = 84$$

$$84 - 40 = 44$$

$$44 - 20 = 24$$

$$24 - 10 = 14$$

$$\text{Here, } 320 \div 2 = 160 \div 2 = 80 \div 2 = 40 \div 2 = 20 \div 2 = 10$$

Wrong term = 328

Q5 Text Solution:

Pattern of the series is as follows:

$$7.5 + 30 = 37.5 \neq 47.5$$

$$37.5 + 50 = 87.5$$

$$87.5 + 70 = 157.5$$

$$157.5 + 90 = 247.5$$

Wrong term = 47.5

Q6 Text Solution:

Pattern of the series is as follows:

$$4 + 1.1 = 5.1$$

$$5.1 + 2.2 = 7.3$$

$$7.3 + 3.3 = 10.6$$

$$10.6 + 4.4 = 15$$

$$15 + 5.5 = 20.5 \neq 20$$

$$20.5 + 6.6 = 27.1$$

Wrong term = 20

Q7 Text Solution:

Pattern of the series is as follows:

$$4 \quad 10 \quad 40 \quad 190 \quad 940 \quad 4690 \neq 4680 \quad 23440$$

$$+6 \quad +30 \quad +150 \quad +750 \quad +3750 \quad +18750$$

$$\times 5 \quad \times 5 \quad \times 5 \quad \times 5 \quad \times 5$$

Wrong term = 4680

Q8 Text Solution:

Pattern of the series is as follows:

$$38 + 1^2 = 39$$

$$39 + 2^2 = 43$$

$$43 + 3^2 = 52$$

$$52 + 4^2 = 68 \neq 70$$

$$68 + 5^2 = 93$$

$$93 + 6^2 = 129$$

Wrong term = 70

Q9 Text Solution:

Pattern of the series is as follows :

$$61 + 21 \times 1 = 82$$

$$82 + 21 \times 2 = 124$$

$$124 + 21 \times 3 = 187$$

$$187 + 21 \times 4 = 271 \neq 270$$

$$271 + 21 \times 5 = 376$$

Wrong term = 270

Q10 Text Solution:

Pattern of the series is as follows:

Pattern Given



13

$$13 + 3 = 16$$

$$16 + 5 = 21$$

$$21 + 7 = 28$$

$$28 + 11 = 39$$

$$39 + 13 = 52$$

Wrong term = 27

Q11 Text Solution:

Pattern of the series is as follows :

$$289 + 17 \times 1 = 306$$

$$306 + 17 \times 2 = 340$$

$$340 + 17 \times 3 = 391 \neq 389$$

$$391 + 17 \times 4 = 459$$

$$459 + 17 \times 5 = 544$$

Wrong term = 389

Q12 Text Solution:Pattern of the series is as follows: $141 + 15 = 156$

$$156 - 9 = 147$$

$$147 + 15 = 162$$

$$162 - 9 = 153$$

$$153 + 15 = 168 \neq 165$$

$$168 - 9 = 159$$

Wrong term = 165

Q13 Text Solution:

There are two series,

$$14 + 15 = 29$$

$$29 + 15 = 44$$

$$44 + 15 = 59$$

$$\text{And } 19 + 21 = 40$$

$$40 + 21 = 61 \neq 51$$

$$61 + 21 = 82$$

Wrong term = 51

Q14 Text Solution:

Pattern of the series is as follows:

Pattern Given

11

$$11 + 7 = 18$$

$$18 + 11 = 29$$

$$29 + 13 = 42$$

$$42 + 17 = 59$$

$$59 + 19 = 78$$

$$78 + 23 = 101$$

Wrong term = 80

Q15 Text Solution:

$$201 - (5 \times 1) = 196$$

$$196 - (5 \times 3) = 181$$

$$181 - (5 \times 5) = 156$$

$$156 - (5 \times 7) = 121$$

$$121 - (5 \times 9) = 76$$

$$76 - (5 \times 11) = 21$$

Q16 Text Solution:

The pattern of the series is as follows:

$$0.5 \times 1 = 0.5 \neq 2$$

$$0.5 \times 2 = 1$$

$$1 \times 4 = 4$$

$$4 \times 8 = 32$$

$$32 \times 16 = 512$$

$$512 \times 32 = 16384$$

Wrong term = 2

Q17 Text Solution:

The pattern of the series is as follows:

Pattern Given

16

$$16 \times \frac{3}{2} = 24$$

$$24 \times \frac{3}{2} = 36 \text{ not } 37$$

$$36 \times \frac{3}{2} = 54$$

$$54 \times \frac{3}{2} = 81$$

$$81 \times \frac{3}{2} = 121.5$$

Hence, Wrong number = 37

Q18 Text Solution:

Pattern of the series is as follows:

Pattern Given

2

$$2 \times 1.5 = 3$$

$$3 \times 2 = 6$$

$$6 \times 2.5 = 15$$

$$15 \times 3 = 45$$

$$45 \times 3.5 = \mathbf{157.5}$$

$$157.5 \times 4 = 630$$

Wrong term = 156.5

Q19 Text Solution:

Pattern of the series is as follows:

$$4 \times 1 + 1 = 5$$

$$5 \times 2 + 2 = 12$$



$$12 \times 3 + 3 = 39 \neq 38$$

$$39 \times 4 + 4 = 160$$

$$160 \times 5 + 5 = 805$$

$$805 \times 6 + 6 = 4836$$

Wrong term = 38

Q20 Text Solution:

The order of the series is as follows,

$$14.2 + 2.1 = 16.3$$

$$16.3 - 4.2 = 12.1$$

$$12.1 + 6.3 = 18.4$$

$$18.4 - 8.4 = 10 \neq 10.6$$

$$10 + 10.5 = 20.5$$

$$\text{गलत क्रम} = 10.6$$



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Hints & Solutions

Level-2

Q1 Text Solution:

Pattern is given below:

$$80 \div 2 + 2 = 42$$

$$42 \div 2 + 2 = 23 \neq 24$$

$$23 \div 2 + 2 = 13.5$$

$$13.5 \div 2 + 2 = 8.75$$

$$8.75 \div 2 + 2 = 6.375$$

Wrong number = 24

Q2 Text Solution:

Pattern of the series is as follows :

$$7 \times 1 + 1 = 8$$

$$8 \times 2 + 2 = 18$$

$$18 \times 3 + 3 = 57$$

$$57 \times 4 + 4 = 232 \neq 230$$

$$232 \times 5 + 5 = 1165$$

Wrong term = 230

Q3 Text Solution:

Pattern of the series is as follows :

$$20 \times 2 - 2 = 38$$

$$38 \times 2 - 2 = 74$$

$$74 \times 2 - 2 = 146 \neq 148$$

$$146 \times 2 - 2 = 290$$

$$290 \times 2 - 2 = 578$$

Wrong term = 148

Q4 Text Solution:

Pattern of the series is as follows:

Pattern Given

$$3$$

$$3 \times 2.5 = 7.5$$

$$7.5 \times 2 = 15$$

$$15 \times 2.5 = 37.5$$

$$37.5 \times 2 = 75 \neq 76$$

$$75 \times 2.5 = 187.5$$

$$187.5 \times 2 = 375$$

Wrong term = 76

Q5 Text Solution:

Pattern of the series is as follows:

Pattern Given

$$3$$

$$3 + 2^2 = 7$$

$$7 + 3^2 = 16$$

$$16 + 4^2 = 32$$

$$32 + 5^2 = 57$$

$$57 + 6^2 = 93$$

$$93 + 7^2 = 142$$

Wrong number = 56

Q6 Text Solution:

Pattern of the series is as follows:

$$251 - 1^3 = 250 \neq 252$$

$$250 + 2^3 = 254$$

$$254 - 3^3 = 227$$

$$227 + 4^3 = 243$$

Wrong term = 252

Q7 Text Solution:

The pattern of the series is as follows:

$$2 + 3 = 5 \neq 6$$

$$5 + 5 = 10$$

$$10 + 9 = 19$$

$$19 + 17 = 36$$

$$36 + 33 = 69$$

$$69 + 65 = 134$$

$$\text{Here, } 3 \times 2 - 1 = 5$$

$$5 \times 2 - 1 = 9$$

$$9 \times 2 - 1 = 17$$

$$17 \times 2 - 1 = 33$$

$$33 \times 2 - 1 = 65$$

Wrong term = 6

Q8 Text Solution:

Pattern of the series is as follows:

$$2 \times 2 - 1 = 3$$

$$3 \times 3 - 1 = 8$$

$$8 \times 4 - 1 = 31$$

$$31 \times 5 - 1 = 154$$

$$154 \times 6 - 1 = 923 \neq 924$$

Wrong number = 924

Q9 Text Solution:

Pattern of the series is as follows:

$$2 \times 3 + 5 = 11$$

$$11 \times 4 - 6 = 38$$

$$38 \times 5 + 7 = 197$$



$$197 \times 6 - 8 = 1174 \neq 1172$$

Wrong term = 1172

Q10 Text Solution:

Pattern of the series is as follows:

Pattern Given

$$1 \times 1 + 2 = 3$$

$$3 \times 2 + 3 = 9$$

$$9 \times 3 + 4 = 31$$

$$31 \times 4 + 5 = 129$$

$$129 \times 5 + 6 = 651$$

$$651 \times 6 + 7 = 3913$$

Wrong term = 128

Q11 Text Solution:

$$7 \times 3 + 6 = 27$$

$$27 \times 3 + 12 = 93$$

$$93 \times 3 + 18 = \mathbf{297}$$

$$297 \times 3 + 24 = 915$$

$$915 \times 3 + 30 = 2775$$

$$2775 \times 3 + 36 = 8361$$

Q12 Text Solution:

Pattern of the series is as follows:

Pattern Given

$$11^3 = 1331$$

$$13^3 = 2197$$

$$15^3 = 3375$$

$$17^3 = 4913$$

$$19^3 = 6859$$

$$21^3 = 9261$$

$$23^3 = 12167$$

Wrong term = 4914

Q13 Text Solution:

Pattern of the series is as follows:

Pattern Given

$$1 \times 1 + 2 = 3$$

$$3 \times 2 + 4 = 10$$

$$10 \times 3 + 6 = 36$$

$$36 \times 4 + 8 = 152$$

$$152 \times 5 + 10 = 770$$

$$770 \times 6 + 12 = 4632$$

Wrong term = 760

Q14 Text Solution:

Pattern of the series is as follows:

$$1^3 + 1 = 2$$

$$2^3 + 1 = 9$$

$$3^3 + 1 = 28$$

$$4^3 + 1 = 65$$

$$5^3 + 1 = 126$$

$$6^3 + 1 = 217 \neq 216$$

$$7^3 + 1 = 344$$

Wrong term = 216

Q15 Text Solution:

$$5 \times 0 + 5 = 5$$

$$\mathbf{5 \times 2 + 5 = 15}$$

$$15 \times 4 + 5 = 65$$

$$65 \times 6 + 5 = 395$$

$$395 \times 8 + 5 = 3165$$

Therefore, 15 should come in place of 10

Therefore,

$$10 \times 0 + 5 = 5$$

$$5 \times 2 + 5 = 15$$

$$15 \times 4 + 5 = 65$$

Hence, option C.

Q16 Text Solution:

Logic in the series:

$$13^2 - 1 = 168$$

$$11^2 - 1 = \mathbf{120(108)}$$

$$7^2 - 1 = 48$$

$$5^2 - 1 = 24$$

$$3^2 - 1 = 8$$

$$2^2 - 1 = 3$$

So, the value of P = 108

And the number, which will come in place of P = 120

$$\text{Required percentage} = \frac{108}{120} \times 100 = 90\%$$

Q17 Text Solution:

Logic in the series:

$$3 \times 3 + 1 = 10$$

$$10 \times 3 + 2 = \mathbf{32(34)}$$

$$32 \times 3 + 3 = 99$$

$$99 \times 3 + 4 = 301$$

$$301 \times 3 + 5 = 908$$

The number, which will come in place of P = 32

$$\text{Required difference} = 30\% \text{ of } 32 = 9.6$$

Q18 Text Solution:



Logic in series (I):

$$6 + 4^2 = \mathbf{22(20)}$$

$$22 + 5^2 = 47$$

$$47 + 6^2 = 83$$

$$83 + 7^2 = 132$$

$$132 + 8^2 = 196$$

So, wrong term in the series = P = 20

Logic in series (II):

$$11 + 2 \times 2 = 15$$

$$15 + 3 \times 2 = \mathbf{21(20)}$$

$$21 + 5 \times 2 = 31$$

$$31 + 7 \times 2 = 45$$

$$45 + 11 \times 2 = 67$$

So, wrong term in the series = Q = 20

$$\text{Required percentage} = \frac{20}{20} \times 100 = 100\%$$

Q19 Text Solution:

Logic in the given series:

$$25 + 10 = 35$$

$$35 - 15 = 20$$

$$20 + 20 = 40$$

$$40 - 25 = 15$$

$$15 + 30 = \mathbf{45(55)}$$

So, the wrong term in the given series = 55

Now,

1st term of the new series = 55

2nd term of the new series = $55 + 10 = 65$

3rd term of the new series = $65 - 15 = 50$

4th term of the new series = $50 + 20 = 70$

5th term of the new series = $70 - 25 = 45$

So, the 5th term of the new series will be equal to the 6th term of the given series, which will come in place of the wrong term.

Q20 Text Solution:

Logic in the series:

$$30 + 5^2 + 55$$

$$55 + 7^2 + 104$$

$$104 + 11^2 = \mathbf{225(250)}$$

$$225 + 13^2 = 394$$

$$394 + 17^2 = 683$$

The value of P = 250

And the number, which will come in place of P = 225

$$\text{Required percentage} = \frac{225}{250} \times 100 = 90\%$$



Hints & Solutions

Level-3

Q1 Text Solution:

325 546 754 936 **1079** 1170
 +221 +208 +182 +143 +91
 -13 -26 -39 -52

Ans. 1078

Q2 Text Solution:

Logic in the given series:

$$4 + 2 = 6$$

$$6 + 6 = \mathbf{12(15)}$$

$$12 + 18 = 30$$

$$30 + 54 = 84$$

$$84 + 162 = 246$$

So, the wrong term of the series = P = 15

Now,

1st term of the new series = 15

2nd term of the new series = $15 + 1 = 16$

3rd term of the new series = $16 + 3 = 19$

4th term of the new series = $19 + 9 = 28$

5th term of the new series = $28 + 27 = 55$

6th term of the new series = $55 + 81 = 136$

Q3 Text Solution:

Pattern of the series is as follows:

Pattern Given

12

$$12 \times 0.5 + 0.5 = 6.5 \text{ not } 6$$

$$6.5 \times 1 + 1 = 7.5$$

$$7.5 \times 1.5 + 1.5 = 12.75$$

$$12.75 \times 2 + 2 = 27.5$$

$$27.5 \times 2.5 + 2.5 = 71.25$$

Wrong term = 6

Q4 Text Solution:

$$\frac{115}{2} + 1.5 = 59$$

$$\frac{59}{2} + 3.5 = 33$$

$$\frac{33}{2} + 5.5 = 22$$

$$\frac{22}{2} + 7.5 = 18.5$$

$$\frac{18.5}{2} + 9.5 = \mathbf{18.75}$$

$$\frac{18.75}{2} + 11.5 = 20.875$$

Therefore, 18.75 should be in place of 16.

Q5. Text Solution:

I. 1999, 1787, 1582, 1391, 1228, 1079

$$1999 - 212 = 1787$$

$$1787 - 205 = 1582$$

$$1582 - 191 = 1391$$

$$1391 - 170 = 1221$$

$$1221 - 142 = 1079$$

Where, $212 - 7 = 205$, $205 - 14 = 191$, $191 - 21 = 170$, $170 - 28 = 142$

The correct series is 1221 in place of 1228.

II. 212, 213, 230, 365, 608, 1939

$$212 + 1^3 = 213$$

$$213 + 3^3 = 240$$

$$240 + 5^3 = 365$$

$$365 + 7^3 = 608$$

$$608 + 11^3 = 1939$$

The correct series is 240 instead of 230.

III. 128, 192, 480, R, 7560

$$128 \times 1.5 = 192$$

$$192 \times 2.5 = 480$$

$$480 \times 3.5 = 1680$$

$$1680 \times 4.5 = 7560$$

Required ratio = P: Q = 1228: 230 = 614: 115

Q6. Text Solution:

I. 1999, 1787, 1582, 1391, 1228, 1079

$$1999 - 212 = 1787$$

$$1787 - 205 = 1582$$

$$1582 - 191 = 1391$$

$$1391 - 170 = 1221$$

$$1221 - 142 = 1079$$

Where, $212 - 7 = 205$, $205 - 14 = 191$, $191 - 21 = 170$, $170 - 28 = 142$

The correct series is 1221 in place of 1228.

II. 212, 213, 230, 365, 608, 1939

$$212 + 1^3 = 213$$

$$213 + 3^3 = 240$$

$$240 + 5^3 = 365$$

$$365 + 7^3 = 608$$

$$608 + 11^3 = 1939$$

The correct series is 240 instead of 230.

III. 128, 192, 480, R, 7560



$$128 \times 1.5 = 192$$

$$192 \times 2.5 = 480$$

$$480 \times 3.5 = 1680$$

$$1680 \times 4.5 = 7560$$

$$Q + R = 1228 + 1680 = 2908$$

Q7. Text Solution:

I. 1999, 1787, 1582, 1391, 1228, 1079

$$1999 - 212 = 1787$$

$$1787 - 205 = 1582$$

$$1582 - 191 = 1391$$

$$1391 - 170 = 1221$$

$$1221 - 142 = 1079$$

Where, $212 - 7 = 205$, $205 - 14 = 191$, $191 - 21 = 170$, $170 - 28 = 142$

The correct series is 1221 in place of 1228.

II. 212, 213, 230, 365, 608, 1939

$$212 + 1^3 = 213$$

$$213 + 3^3 = 240$$

$$240 + 5^3 = 365$$

$$365 + 7^3 = 608$$

$$608 + 11^3 = 1939$$

The correct series is 240 instead of 230.

III. 128, 192, 480, R, 7560

$$128 \times 1.5 = 192$$

$$192 \times 2.5 = 480$$

$$480 \times 3.5 = 1680$$

$$1680 \times 4.5 = 7560$$

IV.

$$24 \times 1.5 = 36$$

$$36 \times 2.5 = 90$$

$$90 \times 3.5 = 315$$

Series is 24, 36, 90, 315

$$\text{Required sum} = 480 + 90 = 570$$

Q8. Text Solution:

Logic in the series:

$$53 + 15 = 68$$

$$68 + 30 = 98$$

$$98 + 45 = 143$$

$$143 + 60 = \mathbf{203(201)}$$

$$203 + 75 = 278$$

So, the wrong term of the series = 201

And the next term of the series = $278 + 90 = 368$

$$\text{Required difference} = 368 - 201 = 167$$

Q9. Text Solution:

Logic in the given series:

$$48 - 2^2 = 44$$

$$44 + 3^2 = 53$$

$$53 - 4^2 = \mathbf{37(35)}$$

$$37 + 5^2 = 62$$

$$62 - 6^2 = 26$$

So, the wrong term of the given series = P = 35

Now,

1st term of the new series = 35

2nd term of the new series = $35 - 2^2 = 31$

3rd term of the new series = $31 + 3^2 = 40$

4th term of the new series = $40 - 4^2 = 24$

Q10. Text Solution:

Logic in the series:

$$12 + 12 = 24$$

$$24 + 20 = 44$$

$$44 + 28 = \mathbf{72}$$

$$72 + 36 = 108$$

$$108 + 44 = 152$$

So, the wrong term in the series = P = 80

And the number, which will come in place of P = 72

$$\text{Required percentage} = \frac{72}{80} \times 100 = 90\%$$

