

IBPS Clerk Prelims Exam 2019

35 Most Important Questions Number Series



Direction: Find the wrong number in the series

1. 2, 3, 7, 22, 89, 459
 A. 459 B. 2
 C. 7 D. 22
 E. None of these

Direction: Find out the wrong number in the following number series.

2. 0, 7, 28, 63, 124, 215
 A. 215 B. 63
 C. 7 D. 28
 E. None of these

3. **Direction:** Find out the wrong number in the following given series.
 24 33 58 107 186 309
 A. 58 B. 33
 C. 107 D. 186
 E. 24

Direction: In the following number series, a wrong number is given. Find out that wrong number.

4. 12, 26, 56, 118, 276, 498, 1008
 A. 26 B. 56
 C. 498 D. 1008
 E. 276

Direction: Find out the wrong number in the following number series.

5. 8, 12, 24, 60, 180, 360
 A. 24 B. 180
 C. 12 D. 360
 E. 8

Direction: Find the wrong term in the given series.

6. 12, 39, 160, 805, 4840, 33859
 A. 39 B. 160
 C. 805 D. 4840
 E. 33859

Direction: In the following number series, a wrong number is given. Find out that wrong number.

7. 14, 21, 48, 105, 315, 1102.5, 4410
 A. 315 B. 48
 C. 21 D. 4410
 E. 105

Direction: Find the wrong term in the given series.

8. 6, 8, 10, 42, 146, 770, 4578
 A. 8 B. 10
 C. 146 D. 770
 E. 42

Direction: Find the wrong term in the given series.

9. 7, 49, 169, 222, 169
 A. 7 B. 49
 C. 169 D. 81
 E. 222

Direction: Find the wrong term in the given series.

10. 1, 2, 11, 36, 86, 166
 A. 11 B. 36
 C. 86 D. 166
 E. None of these

Direction: What of the following number in the series is wrong?

11. 10395, 20790, 13860, 5543, 1584,
 A. 10395 B. 20790
 C. 13860 D. 5543
 E. 1584

Direction: What of the following number in the series is wrong?

12. 720, 360, 240, 182, 144
 A. 720 B. 182
 C. 360 D. 240
 E. 144

Direction: What of the following number in the series is wrong?

13. 40, 36, 35, 39, 50, 69
 A. 40 B. 36
 C. 50 D. 69
 E. 35

Direction: Find the wrong term in the given series.

14. 205, 221, 235, 247, 257, 263
 A. 221 B. 247
 C. 263 D. 205
 E. None of these

Direction: Which of the following number in the series is wrong?

15. 12, 17.5, 46, 186.5, 1626, 26043.5
 A. 17.5 B. 1594
 C. 45 D. 186.5
 E. None of these

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

16. 8, 3, 2, 2, 3, 6.5, ?
 A. 12 B. 18.5
 C. 13.5 D. 10
 E. 9.5

Direction: What will come in place of the question mark (?) in the following number series?

17. 3, 1, 5, -1, 7, -3, ?
 A. 9 B. 8
 C. 6 D. 4
 E. 2

Direction: What number should come in the place of question mark (?) in the following number series?

18. 15625, 6250, 3750, 3000, 3000, ?
 A. 2360 B. 2720
 C. 3000 D. 3600
 E. 4200

Direction: What number should come in the place of question mark (?) in the following number series?

19. 3, 7, 13, 23, 41, ?
 A. 69 B. 51
 C. 90 D. 75
 E. 53

Direction: What number should come in the place of question mark (?) in the following number series?

20. 126, 64, ?, 20, 14, 12
 A. 33 B. 21
 C. 43 D. 24
 E. 34

Direction: Find the missing number in the given series.

21. 120, 129, 154, 203, ?, 405
 A. 285 B. 254
 C. 261 D. 284
 E. 214

Direction: Find the missing number in the given series.

22. 2, 4, 18, 164, ?, 65652
 A. 2626 B. 2545
 C. 2615 D. 2452
 E. 2754

Direction: Find the missing number in the given series.

23. 16, 17, 27, ?, 142.5, 430.5
 A. 55.5 B. 56
 C. 65.5 D. 105.5
 E. 120

Direction: Find the missing number in the given series.

24. 972, 484, 240, 118, 57, ?
 A. 26 B. 27.5
 C. 26.5 D. 28
 E. 32

Direction: Find the missing number in the given series.

25. 43, 79, ?, 299, 594, 1185
 A. 150 B. 164
 C. 152 D. 175
 E. 170

Direction (26 – 30) : In the following number series, only one number is missing. Find out the missing number.

26. 255, 435, 665, 945, 1275, ?
 A. 1715 B. 1675
 C. 1655 D. 1725
 E. 1695
27. 4096, 1024, 384, 192, 120, 90, ?
 A. 78.57 B. 78.75
 C. 75.75 D. 77.8
 E. None of these
28. 46, 61, 78, 97, 118, ?
 A. 165 B. 141
 C. 158 D. 129
 E. 134
29. 551, 560, 567, 572, 575, ?
 A. 595 B. 576
 C. 586 D. 603
 E. 584
30. 64, 96, 240, 840, 3780, ?
 A. 20879 B. 20938
 C. 20790 D. 20987
 E. 20676

Direction: What should come in place of question mark (?) in the following number series?

31. 445, 221, 109, ?, 25, 11, 4
 A. 57 B. 51
 C. 52 D. 36
 E. 53

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Direction: What should come in place of question mark (?) in the following number series?

32. 3, 4, 13, 51, 664, ?
A. 33863 B. 35245
C. 25465 D. 33568
E. 33691
33. What should come in place of question mark (?) in the following number series?
90 403 ? 1089 1462
A. 736 B. 702
C. 764 D. 788
E. None of these

Direction: What should come in place of question mark (?) in the following number series?

34. 13.5, 24, 37.5, 54, ? ,96
A. 59.5 B. 68.5
C. 82.5 D. 73.5
E. None of these

Direction: What should come in the place of question mark '?' in the given questions.

35. 15, 22, 29,?, 43
A. 45 B. 36
C. 42 D. 24
E. None of these

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ANSWERS

1. Ans. A.

Series Pattern is

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

$$3 \times 2 + 1 = 7$$

$$7 \times 3 + 1 = 22$$

$$22 \times 4 + 1 = 89$$

$$89 \times 5 + 1 = 446$$

so wrong number is 459

2. Ans. D.

The pattern is $= 1^3 - 1, 2^3 - 1, 3^3 - 1, 4^3 - 1, 5^3 - 1, 6^3 - 1$

So the wrong term 28 is replace by $= 3^3 - 1 = 26$

3. Ans. D.

The given number series is based on the following pattern:

$$33 - 24 = 9 = 3^2$$

$$58 - 33 = 25 = 5^2$$

$$107 - 58 = 49 = 7^2$$

$$188 - 107 = 81 = 9^2$$

$$309 - 188 = 121 = 11^2$$

Obviously, 186 is the wrong number.

4. Ans. E.

The followed pattern is :

$$12 \times 2 + 2 = 26$$

$$26 \times 2 + 4 = 56$$

$$56 \times 2 + 6 = 118$$

$$118 \times 2 + 8 = 244$$

$$244 \times 2 + 10 = 498$$

$$498 \times 2 + 12 = 1008$$

Hence, the wrong number is 276.

5. Ans. D.

$$8 \times 1.5 = 12$$

$$12 \times 2 = 24$$

$$24 \times 2.5 = 60$$

$$60 \times 3 = 180$$

$$180 \times 3.5 = 630$$

6. Ans. D.

$$(12+1) \times 3 = 39$$

$$(39+1) \times 4 = 160$$

$$(160+1) \times 5 = 805$$

$$(805+1) \times 6 = 4836$$

$$(4836+1) \times 7 = 33859$$

4840 is wrong; it should be 4836.

7. Ans. B.

The given number series is based on the following pattern :

$$14 \times 1.5 = 21$$

$$21 \times 2 = 42$$

$$42 \times 2.5 = 105$$

$$105 \times 3 = 315$$

$$315 \times 3.5 = 1102.5$$

$$1102.5 \times 4 = 4410$$

Hence, the wrong number is 48.

8. Ans. C.

Solution-

The series is based on the pattern:-

$$6 \times 1 + 1 \times 2 = 8$$

$$8 \times 2 - 2 \times 3 = 10$$

$$10 \times 3 + 3 \times 4 = 42$$

$$42 \times 4 - 4 \times 5 = 148$$

$$148 \times 5 + 5 \times 6 = 770$$

Hence, 146 is wrong here.

9. Ans. E.

Next number is obtained by squaring and adding each of the digits of the previous number:

$$7 \quad 49 \quad 169 \quad 222 \quad 169$$

$$(7)^2 \quad (4+9)^2 \quad (1+6+9)^2 \quad (2+5+6)^2$$

So when we do, $(1+6+9)^2 = 16^2 = 256$, but it is 222, so it is the wrong number in the series

10. Ans. C.

$$1 \quad 2 \quad 11 \quad 36 \quad \boxed{86} = 85 \quad 166$$

$$+1^2 \quad +3^2 \quad +5^2 \quad +7^2 \quad +9^2$$

11. Ans. D.

$$10395 \times \frac{2}{1} = 20790$$

$$20790 \times \frac{2}{3} = 13860$$

$$13860 \times \frac{2}{5} = 5544$$

$$5544 \times \frac{2}{7} = 1584$$

$$1584 \times \frac{2}{9} = 352$$

12. Ans. B.

$$720 \times \frac{1}{2} = 360$$

$$360 \times \frac{1}{3} = 240$$

$$240 \times \frac{1}{4} = 180$$

$$180 \times \frac{1}{5} = 144$$

13. Ans. D.

$$\text{The series is } 40 + 1^2 - 5 = 36$$

$$36 + 2^2 - 5 = 35$$

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$$35 + 3^2 - 5 = 39$$

$$39 + 4^2 - 5 = 50$$

$$50 + 5^2 - 5 = 70$$

So, 69 is wrong number in the series.

14. Ans. C.

The series is

$$205 + 16 = 221$$

$$221 + 14 = 235$$

$$235 + 12 = 247$$

$$247 + 10 = 257$$

$$257 + (8) = 265$$

So, 263 is the wrong number in the series.

15. Ans. D.

The series is

$$12 * 1 + 5.5 = 17.5$$

$$17.5 * 2 + 11 = 46$$

$$46 * 4 + 16.5 = 200.5$$

$$200.5 * 8 + 22 = 1626$$

$$1626 * 16 + 27.5 = 26043.5$$

So, 186.5 is the wrong number in the series.

16. Ans. B.

The pattern for the first sequence is:

$$(1st\ term \times 0.5) - 1, (2nd\ term \times 1) - 1,$$

$$(3rd\ term \times 1.5) - 1, (4th\ term \times 2) - 1, \dots$$

Therefore,

$$(8 \times 0.5) - 1 = 3$$

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

$$(2 \times 1.5) - 1 = 2$$

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

$$(3 \times 2.5) - 1 = 6.5$$

$$(6.5 \times 3) - 1 = 18.5$$

Hence the answer is option (B).

17. Ans. A.

Multiples of 2 have been alternatively subtracted and added to get the next term.

$$3 - 2 = 1$$

$$1 + 4 = 5$$

$$5 - 6 = -1$$

$$-1 + 8 = 7$$

$$7 - 10 = -3$$

$$-3 + 12 = 9$$

Hence the answer is option (A).

18. Ans. D.

$$\begin{array}{cccccc} 15625 & 6250 & 3750 & 3000 & 3000 & \\ \times \frac{2}{5} & \times \frac{3}{5} & \times \frac{4}{5} & \times \frac{5}{5} & & \end{array}$$

Clearly, Next no will be = $3000 \times 6/5 = 3600$

19. Ans. D.

$$3, 7, 13, 23, 41, \mathbf{75}$$

$$4 \ 6 \ 10 \ 18 \ 34$$

$$2 \ 4 \ 8 \ 16$$

20. Ans. E.

$$\frac{126}{2} + 1 = 64$$

$$\frac{64}{2} + 2 = 34$$

$$\frac{34}{2} + 3 = 20$$

$$\frac{20}{2} + 4 = 14$$

21. Ans. D.

$$120 + 3^2 = 120 + 9 = 129$$

$$129 + 5^2 = 129 + 25 = 154$$

$$154 + 7^2 = 154 + 49 = 203$$

$$203 + 9^2 = 203 + 81 = 284$$

$$284 + 11^2 = 284 + 121 = 405$$

22. Ans. A.

$$2 \times 1^2 + 2 = 2 + 2 = 4$$

$$4 \times 2^2 + 2 = 16 + 2 = 18$$

$$18 \times 3^2 + 2 = 162 + 2 = 164$$

$$164 \times 4^2 + 2 = 2624 + 2 = 2626$$

$$2626 \times 5^2 + 2 = 65650 + 2 = 65652$$

23. Ans. B.

$$16 \times 1 + 1 = 16 + 1 = 17$$

$$17 \times 1.5 + 1.5 = 25.5 + 1.5 = 27$$

$$27 \times 2 + 2 = 54 + 2 = 56$$

$$56 \times 2.5 + 2.5 = 140 + 2.5 = 142.5$$

$$142.5 \times 3 + 3 = 427.5 + 3 = 430.5$$

24. Ans. C.

$$(972 - 4) \div 2 = 968 \div 2 = 484$$

$$(484 - 4) \div 2 = 480 \div 2 = 240$$

$$(240 - 4) \div 2 = 236 \div 2 = 118$$

$$(118 - 4) \div 2 = 114 \div 2 = 57$$

$$(57 - 4) \div 2 = 53 \div 2 = 26.5$$

25. Ans. C.

$$43 \times 2 - 7 = 86 - 7 = 79$$

$$79 \times 2 - 6 = 158 - 6 = 152$$

$$152 \times 2 - 5 = 304 - 5 = 299$$

$$299 \times 2 - 4 = 598 - 4 = 594$$

$$594 \times 2 - 3 = 1188 - 3 = 1185$$

26. Ans. C.

The Pattern is:-

$$15^2 + 30 = 255$$

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$$20^2 + 35 = 435$$

$$25^2 + 40 = 665$$

$$30^2 + 45 = 945$$

$$35^2 + 50 = 1275$$

$$40^2 + 55 = 1655$$

Thus, the missing number is 1655
So option (c) is the correct answer.

27. Ans. B.

The Pattern is:-

$$4096$$

$$\frac{4096}{4} \times 1 = 1024$$

$$\frac{1024}{4} \times 1.5 = 384$$

$$\frac{384}{4} \times 2 = 192$$

$$\frac{192}{4} \times 2.5 = 120$$

$$\frac{120}{4} \times 3 = 90$$

$$\frac{90}{4} \times 3.5 = 78.75$$

Thus, the missing number is 78.75
So option (b) is the correct answer.

28. Ans. B.

The Pattern is:-

$$9 \times 5 + 1 = 46$$

$$10 \times 6 + 1 = 61$$

$$11 \times 7 + 1 = 78$$

$$12 \times 8 + 1 = 97$$

$$13 \times 9 + 1 = 118$$

$$14 \times 10 + 1 = 141$$

Thus, the missing number is 141
So option (b) is the correct answer.

29. Ans. B.

The Pattern is:-

$$29 \times 19 = 551$$

$$28 \times 20 = 560$$

$$27 \times 21 = 567$$

$$26 \times 22 = 572$$

$$25 \times 23 = 575$$

$$24 \times 24 = 576$$

Thus, the missing number is 576
So option (b) is the correct answer.

30. Ans. C.

The Pattern is:-

$$64 \times 1.5 = 96.0$$

$$96 \times 2.5 = 240.0$$

$$240 \times 3.5 = 840.0$$

$$840 \times 4.5 = 3780.0$$

$$3780 \times 5.5 = 20790.0$$

Thus, the missing number is 20790.0

So option (c) is the correct answer.

31. Ans. E.

$$\frac{445-3}{2} = 221$$

The series is

$$\frac{221 - 3}{2} = 109$$

$$\frac{109 - 3}{2} = 53$$

$$\frac{53 - 3}{2} = 25$$

$$\frac{25 - 3}{2} = 11$$

$$\frac{11 - 3}{2} = 4.$$

Thus, option (E) is correct choice.

32. Ans. A.

The series is $3 \times 4 + 1 = 13$

$$13 \times 4 - 1 = 51$$

$$51 \times 13 + 1 = 664$$

$$664 \times 51 - 1 = 33863.$$

Thus, option (A) is correct choice.

33. Ans. A.

$$3 * 30 = 90$$

$$13 * 31 = 403$$

$$23 * 32 = 736$$

$$33 * 33 = 1089$$

$$43 * 34 = 1462$$

Hence, option (A) is the answer.

34. Ans. D.

$$3^2 + \frac{3^2}{2} = 13.5$$

$$4^2 + \frac{4^2}{2} = 24$$

$$5^2 + \frac{5^2}{2} = 37.5$$

$$6^2 + \frac{6^2}{2} = 54$$

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$$7 + \frac{7^2}{2} = 73.5$$

$$8^2 + \frac{8^2}{2} = 96$$

Hence, option (D) is the answer.

35. Ans. B.

if we observe the series carefully, we get to know a pattern

$$8 \times 2 - 1 = 15$$

$$8 \times 3 - 2 = 22$$

$$8 \times 4 - 3 = 29$$

$$8 \times 5 - 4 = 36$$

$$? = 36$$

Hence, B is the correct option.

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